

APPENDIX L

Impact FSP

FIELD SAMPLING PLAN

REVISED March 6, 2014

Project:

Property Located at 514-520 W 28th St
New York, NY 10001

Submitted to:

Environmental Waste Minimization, Inc.
14 Brick Kiln Court
Northampton, PA 18067

Submitted by:

Impact Environmental Consulting, Inc.
170 Keyland Court
Bohemia, New York 11716

Project Number:

6422



IMPACT ENVIRONMENTAL | 170 Keyland Court | Bohemia | New York | 11716 | 631.269.8800

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1. INTRODUCTION

1.1 Purpose

This Field Sampling Plan was prepared on behalf of Environmental Waste Minimization, Inc., with respect to the project located at 514-520 W 28th St in the borough of Manhattan, New York. This document provides means and methods to characterize, and dispose of regulated wastes that will be removed from the site during excavation activities.

1.2 Scope

The scope of this document was based upon industry standard sampling and analysis protocols, regulatory agency guidance criteria and regulations, and targeted disposal site acceptance criteria. The targeted disposal sites were selected based upon environmental data generated from the sampling performed previously.

2. CLASSIFICATION OF REGULATED MATERIALS

Sampling activities will be performed by Impact Environmental Consulting, Inc. (“Impact”). A third party laboratory, Phoenix Environmental Laboratories, Inc., will be utilized to perform the analysis of the samples, and to prepare certified test reporting. This reporting will include laboratory chronicles, non-conformance summary, laboratory batch spikes and duplicates. The Owner and Owner’s Environmental Consultant will be notified at least 2 days prior to the commencement of the sampling outlined in this plan.

2.1 Field Sampling Plan Summary

Sampling will be performed on the site in-situ to secure representative samples to classify materials based upon both the physical and chemical qualities. In that the spatial distribution of both the physical and chemical contaminants has been shown to be somewhat homogenous, the site has been divided into 12 sampling grids (see **Figure 1**: Boring Location Map) to support a probability sampling scheme. A portion of each composite sample from individual grids will be combined with other grid composites based on location, depth of excavation and previous sampling results to create 6 Waste Characterization (“WC”) grids (See **Table 1** : Waste Characterization Grid Combinations). Each WC grid will be approximately 3600 sq ft. Depth intervals will be determined by elevation to ensure that the floor of each depth interval will be flat across the site. This means that the volume of the top depth interval in each grid will vary slightly depending on the starting grade elevation in each grid. Grade elevations for each grid will be taken from previous Geotechnical Reports done on the site. Deeper intervals will be consistent 6’ layers. The top depth interval will be labeled as depth A, and the lower intervals will be labeled with corresponding letters. Each WC Grid Layer will have an approximate excavated volume of 960 CY. Each boring will be drilled down to bedrock.¹ In total, there will be 21 waste characterization grids that will be independently sampled. In addition, there will be 42 discrete grab samples and 42 grid composite samples to be collected. In addition to the soil characterization, 1 concrete chip sample will be collected.

The logic of this plan is to have the *de minimus* data necessary to satisfy all of the targeted off-site disposal facilities (minimum frequency is noted at 1 sample per 1,000 cubic yards), while also having a contingency plan should the sample data not meet the criteria of the targeted off-site disposal facilities. This contingency plan will involve analyzing the material for potentially hazardous characteristics at a stringent frequency of 1 sample per 500 cubic yards.

1. All borings are expected to terminate at bedrock except for WC-3. WC-3 characterization will terminate at El. (-7)/18.7ft bgs which is deeper than the planned excavation depths of El. (-3.75)/15.5ft bgs. See Figure 3 [EWMF Footnote 3/7/2014]

2.1.1 In Situ Sampling Procurement

One boring will be installed within each of the 12 sampling grids. The depth of each boring will be dependent on the depth of excavation in that grid. The borings will be installed using a Geoprobe subsurface hydraulic drilling rig. The Geoprobe will acquire cores from a maximum 5 foot stroke. The locations of the borings within the zones were chosen to be biased towards previous sampling events and are plotted (see **Figure 2: Boring Location Map**). For each layer, five grab samples will be secured from randomly selected portions of the boring cores in each zone. Compositing of the grab samples will be performed as indicated in the document section below. The concrete chip sample will be collected from concrete in Grid 12.

2.1.2 Sample Preparation and Analysis

Each of the grab samples secured from boring cores will be screened with portable photo-ionization detection (“PID”) meter. The PID will be calibrated to factory specifications at the beginning of each day the sampling carries on. Within each layer, the grab sample that exhibits most observatory/olfactory signs of contamination or yields the highest result from screening with the PID of all five discrete samples of the grid will be secured using EPA Method 5035 required Encore© samplers supplied by Phoenix Environmental Laboratories, and analyzed for total volatile organic compounds (“VOCs”) by USEPA Test Method 8260. The remaining discreet samples will then be mixed on site until the material appears homogeneous. Half of this Grid Composite will be secured and sent to the laboratory to be analyzed for Toxic Characteristic Leachate Procedure (TCLP) for Metals (including Mercury). The other half of the Grid Composite will be further composited with its corresponding grid (see **Table 1: Waste Characterization Grid Combinations**) to create WC Composites. Samples will be composited into a homogeneous mixture using dedicated disposable Ziploc© bags. Each bag will only be used once to avoid cross contamination of materials. All sampling will be performed in accordance with Section 307 of the Federal Clean Water Act.

Table 2, Targeted Off-Site Waste Disposal Facilities Acceptance Parameters, provides a graphical representation of the tests, test methods, frequency of acquisition and analysis for each of the targeted off-site disposal facilities. Review of the information on **Table 2** suggests that the analysis for the composite samples be performed following a 2-tiered approach.

As the targeted off-site disposal facilities are located in New Jersey and Pennsylvania, the target analyte list for each of the test methods will be inclusive of all analytes listed in the TCL/TAL standard list, NJDEP Soil Remediation Standards, and those determined appropriate on the PADEP Tables FP-1a, FB-1b, GP-1a and GP-1b as well as the NYSDEC CP-51 list. Determinations of appropriateness in PA are routinely identified to be consistent with the TCL/TAL Standard list and the NJDEP Soil Remediation Standards. This is due to the fact that many of the analytes on the PA standards referenced above are not covered under the NELAP laboratory accreditation program.

Tier One would include analysis for the following parameters:

- Total Semi-Volatile Organic Compounds (SVOCs) - USEPA Test Method 8270
- Total Poly Chlorinated Biphenols (PCBs) – USEPA Test Method 8082
- Total Organochloride Pesticides – USEPA Test Method 8081
- Total Herbicides – USEPA Test Methods 8151
- Total Metals – USEPA Test Method 6010
- Total Cyanide – USEPA Test Method 9012A
- Total Mercury – USEPA Test Method 7470/7471
- Total Hexavalent Chromium – USEPA Test Method 7196A/3060A
- Extractable Petroleum Hydrocarbons – NJDEP EPH Method Revision 3
- Toxic Characteristic Leachate Procedure Metals Analysis – USEPA Test Method 1311/6010/7470/7471 (to be performed at 1 sample/500CY frequency)

Given the previous remedial investigations results, the surplus materials are expected to contain relatively high levels of polycyclic aromatic hydrocarbons (PAHs). It is very possible that material will be classified as Pennsylvania Clean Fill and/ or Regulated Fill who generally have higher tolerance of the above noted contaminations of concerns. Therefore, Tier Two testing would be performed where results of the Tier One analysis have been received by the laboratory and the surplus material from a management grid has been identified **not** to contain contaminant concentrations that may prompt the material to be classified as Pennsylvania Clean/Regulated Fill material (i.e., the subject material can be classified as the regulated material types that are acceptable at the targeted New Jersey facilities). Tier Two would include analysis for the following parameters:

- Toxic Characteristic Leachate Procedure Volatile Organic Compounds (VOCs) Analysis – USEPA Test Method 1311/8260

- Toxic Characteristic Leachate Procedure Semi-Volatile Organic Compounds (SVOCs) Analysis – USEPA Test Method 1311/8270
- Toxic Characteristic Leachate Procedure Herbicides Analysis – USEPA Test Method 1311/8151
- Toxic Characteristic Leachate Procedure Pesticides Analysis – USEPA Test Method 1311/8081
- Corrosivity Characteristic – USEPA Test Method 9045D
- Ignitability of Solids – USEPA Test Method 1030
- Reactive Cyanide & Reactive Sulfide to be reported as Total Releasable Cyanide and Total Releasable Cyanide (USEPA Test Method 9014 & 9034)
- Total Petroleum Hydrocarbons (GRO & DRO - to C44) – USEPA Test Method 8015M

NOTE: Tier Two analysis may not be required if not prompted by the results of Tier One analysis.

With the exception of TCLP Metals, which will be performed on grid composites, Tier I analysis will be performed on WC samples. Where Tier II analysis is determined to be necessary, the Grid Composite samples that were mixed to create the WC sample will be analyzed separately at the laboratory. In total, there will be 21 WC samples analyzed for Tier 1 less TCLP Metals, 42 discreet grab samples analyzed for VOCs, and 42 Grid Composite samples analyzed for TCLP Metals. In addition, four samples will be collected and analyzed for gradation by ASTM Method D-421/422. One composite sample will be collected from each depth interval.

The concrete chip sample will be analyzed for Tier One analysis less Extractable Petroleum Hydrocarbons and TCLP Metals.

2.1.3 Environmental Laboratory and Sampling Technician

Phoenix Environmental Laboratories (“Phoenix”) will be used as the environmental laboratory for all additional sampling. Phoenix is a regional laboratory with its headquarters located at 587 East Middle Tpke, Manchester, CT. It is an NELAP laboratory accredited in NJ, NY, and PA. The laboratory can be reached at (860) 645-1102, and the contact is Bobbi Aloisa. The laboratory deliverables will meet NY, NJ, and PA requirements. The laboratory is certified by each potential disposal facility’s state for each analyte listed on the disposal facility permit. ASP Category B deliverables will be provided by the lab as well. Please see **Appendix B** for a copy of the laboratory certifications. The sampling technicians for this project will be Die Fu and/or Jeff Bogoian of Impact Environmental. Both Ms. Fu and Mr. Bogoian have solid experience in the environmental sampling field. They can be reached at (631)269-8800. Either or

both of the sampling technicians will keep detailed field notes that will include physical description of the subsurface material and boring logs.

2.2 Regulated Material Classification and Characterization

The results obtained from the performance of sampling and analysis activities will be presented in the "Waste Characterization Report". The Waste Characterization Report will present field data (non-analytical data) and the analytical data generated from the laboratory. It will present tabulated data for comparison with the acceptance criteria of the targeted off-site disposal facilities, graphically categorize materials according to hazardous waste, industrial waste, regulated waste, or construction & demolition material, and will identify the transportation and disposal requirements. This report will be issued within 10 days of the full receipt of the laboratory reports.

2.3 Contingency Measures

In the event the data obtained from the performance of any sampling event generates results that suppose or confirm the presence of hazardous waste or acutely hazardous substances at the site, this plan will require modifications to address such conditions in a manner that is safe and legally appropriate. This plan assumes that there are no hazardous or acutely hazardous substances on-site. Should any of the analysis show material on site to be hazardous, additional delineation sampling will be necessary. In addition to delineating the hazardous area, Pennsylvania Department of Environmental Protection requires that on sites where hazardous material has been found, non-hazardous material must be collected in 1,000 CY stockpiles and reanalyzed for both total and TCLP for the analyte the site tested hazardous for. To ensure that material is not contaminated during the handling and transport of the samples, two trip blanks will be provided by Phoenix Environmental Laboratories. These trip blanks will be analyzed for Tier I analysis. This analysis will be sufficient Quality Control data in accordance with the potential disposal facilities' acceptance criteria.

2.3.1 Stockpiling Contingency [added by EWMI 3/4/2014]

Stockpiles will be used when necessary and will be removed as soon as possible. While stockpiles are in place, they will be inspected daily, and before and after every storm event. Excavated soils will be stockpiled on, at minimum, 6-mil minimum sheeting, will be kept covered at all times with appropriately anchored plastic tarps, and will be appropriately graded to control run-off. Stockpiles of excavated soils and other materials shall be located at least 50 feet from the property boundaries, where possible.

2.3.2 C&D Characterization & Disposal [added by EWMI 3/7/2014]

Concrete will be chip sampled - disposal is targeted for the Impact Reuse & Recovery Center in Lyndhurst, NJ pending analysis review. Asphalt is acceptable in Pennsylvania at the TRC or Phase III facilities without additional testing.

3. TARGETED OFF-SITE WASTE DISPOSAL FACILITIES

The surplus materials at the site will be disposed of off-site in accordance with all State, Federal and Local rules and regulations based on the physical and chemical nature of the materials.

The following facilities are expected to be utilized to accommodate the surplus materials generated from the construction of the project. The use of any of these facilities is contingent upon approval by the Owner. Final approvals will be issued when the regulated materials have been characterized and classified, and applications have been submitted and approved in writing by each facility.

A list of facilities, including a summary of generalized acceptance parameters and operational limitations, is included herein as **Table 2**, Targeted Off-Site Waste Disposal Facilities. The current operational permit and a copy of each facility's application are attached for review and consideration as referenced in **Appendix A**. Due to PADEP sampling requirements, both Phase III Environmental and Total Recycling Corporation will require a minimum of three samples meeting the facility specifications in order to submit to the facility for disposal.² Impact Recovery and Reuse Center is a Class B Recyclable Facility that can accept the concrete that will be generated during the site excavation.

List of Targeted Disposal Facilities:

Phase III Environmental, LLC, Palmerton Borough, Carbon County, PA
Permit WMGR096-NE003 (see Appendix A)

Total Recycling Corporation, Allentown, Lehigh County, PA
Permit 16848 (see Appendix A)

Impact Recovery and Reuse Center, Lyndhurst, Bergen County, NJ
Permit CBG110003 (see Appendix A)

Morris-Blanchard Redevelopment Project, Newark, Essex County, NJ
SRP PI# 015008 (see Appendix A)

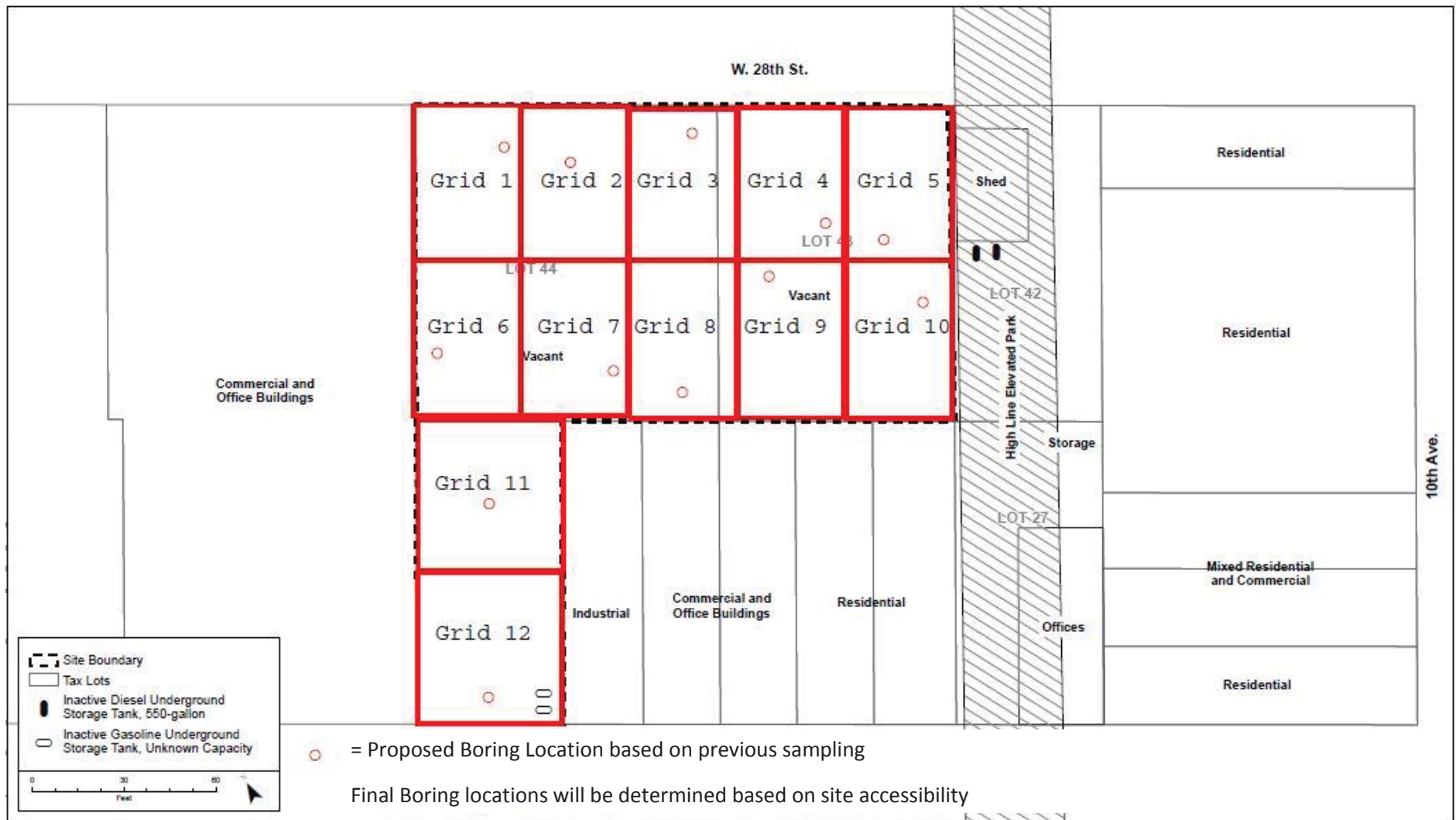
2. If less than three (3) grids are destined for disposal at TRC and/or Phase III, then an additional sample set will be collected from the targeted grids and submitted for disposal facility/PADEP review and approval. Sampling methodology will be discussed/approved by all parties prior to collection. This sampling will only be performed if three grids are not targeted for disposal in Pennsylvania [EWMI Footnote 3/4/2014]

FIGURES

Figure 1: Site Location Map 514-520 W 28th St



Figure 2: Proposed Boring Location Map 514-520 W 28th St



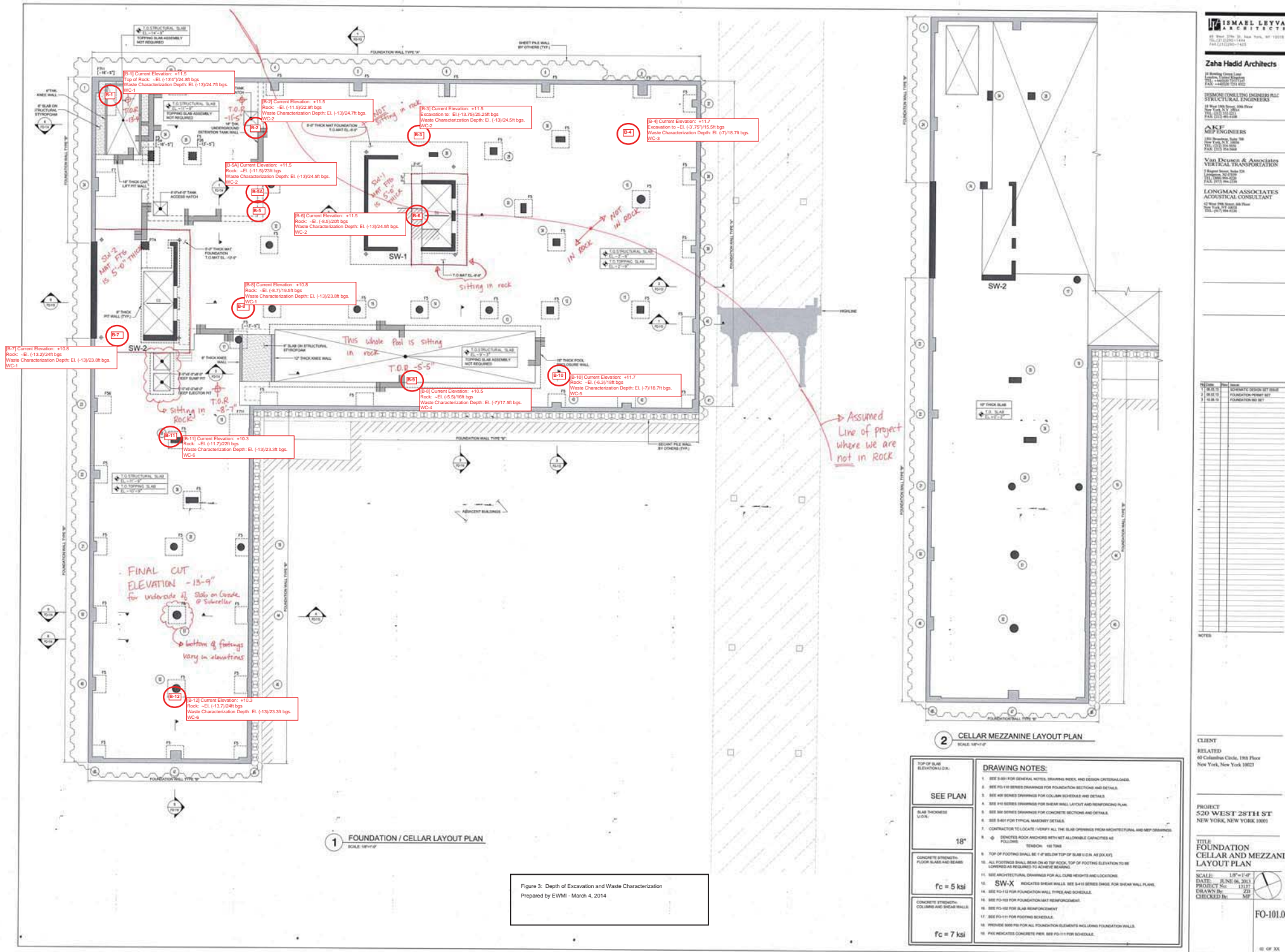


Figure 3: Depth of Excavation and Waste Characterization
Prepared by EWM - March 4, 2014

TABLES

Table 1: Grid Combinations and Layer Elevations

Depth Layer		Grid Combination					
		WC-1	WC-2	WC-3	WC-4	WC-5	WC-6
		Grids 1+6	Grids 2+3	Grids 4+5	Grids 7+8	Grids 9+10	Grids 11+12
A	Grade to El 5'	Fill	Fill	Fill	Fill	Fill	Fill
B	El 5' to -1'	Fill	Fill	Mixed	Fill	Mixed	Fill
C	El -1' to -7'	Mixed	Mixed	Native	Mixed	Native	Native
D	El -7' to -13'	Native	Native	-	-	-	Native

Table 2: Target Off-Site Disposal Facility Required Analysis

FACILITIES	TYPE OF MATERIAL	PARAMETERS	VOLATILE ORGANICS - VOCs	SEMI VOLATILE ORGANICS - SVOCs	PCBs	PESTICIDES	HERBICIDES	TOTAL METALS	TOTAL CYANIDE	TOTAL MERCURY	HEXAVALENT CHROMIUM	TCLP METALS (RCRA 8 + Cu, Ni, Zn)	EXTRACTABLE PETROLEUM HYDROCARBONS	TOTAL PETROLEUM HYDROCARBONS (TPH); GRO & DRO - Expanded to C44	CORROSIVITY (pH)	TCLP SEMI VOLATILE ORGANICS - SVOCs	TCLP HERBICIDES	TCLP PESTICIDES	TCLP VOLATILE ORGANICS - VOCs	IGNITABILITY	REACTIVITY - SULFIDE AND CYANIDE
		METHODS																			
		SAMPLING FREQUENCY																			
IMPACT RECOVERY AND REUSE CENTER, LYNHURST, NJ*	CLASS B RECYCLABLES and BYPRODUCTS MEETING BACK END	1 grab sample per 1000 CY	X																		
		4-point composite per 1000 CY		X	X	X	X	X	X	X	X										
MORRIS - BLANCHARD ST REDEVELOPMENT PROJECT, NEWARK, NJ*	SOIL AND CONSTRUCTION FILL MEETING NJ NRDCSRs+	1 grab sample per 1000 CY	X																		
		4-point composite per 1000 CY		X	X	X	X	X					X								
TOTAL RECYCLING CORPORATION, ALLENTOWN, PA*	PENNSYLVANIA CLEAN FILL	3 grab samples per 3000 CY	X																		
		3 4-point composites per 3000 CY		X	X	X	X	X	X	X	X										
PHASE III ENVIRONMENTAL, PALMERTON, PA*	PENNSYLVANIA CLEAN FILL and REGULATED FILL (Includes Historic Fill containing slag and ash)	3 grab samples per 3000 CY	X																		
		3 4-point composites per 3000 CY		X	X	X	X	X	X	X	X										
			TIER ONE ANALYSIS											TIER TWO ANALYSIS							

NJNRDCSRs+ means some parameters exceed the standard for specific analytes (facility dependant)

*Means facilities managed by Impact Environmental

Table 3: Proposed Sample IDs and Analysis

Sample ID	Grids	Tier I	Tier II	TCLP Metals	VOC	Sample ID	Grids	Tier I	Tier II	TCLP Metals	VOC	Sample ID	Grids	Tier I	Tier II	TCLP Metals	VOC
WC-1A	1+6	X				G-1A Comp	1		HOLD	X		G-1A Grab	1				X
WC-1B	1+6	X				G-1B Comp	1		HOLD	X		G-1B Grab	1				X
WC-1C	1+6	X				G-1C Comp	1		HOLD	X		G-1C Grab	1				X
WC-1D	1+6	X				G-1D Comp	1		HOLD	X		G-1D Grab	1				X
WC-2A	2+3	X				G-2A Comp	2		HOLD	X		G-2A Grab	2				X
WC-2B	2+3	X				G-2B Comp	2		HOLD	X		G-2B Grab	2				X
WC-2C	2+3	X				G-2C Comp	2		HOLD	X		G-2C Grab	2				X
WC-2D	2+3	X				G-2D Comp	2		HOLD	X		G-2D Grab	2				X
WC-3A	4+5	X				G-3A Comp	3		HOLD	X		G-3A Grab	3				X
WC-3B	4+5	X				G-3B Comp	3		HOLD	X		G-3B Grab	3				X
WC-3C	4+5	X				G-3C Comp	3		HOLD	X		G-3C Grab	3				X
WC-4A	7+8	X				G-3D Comp	3		HOLD	X		G-3D Grab	3				X
WC-4B	7+8	X				G-4A Comp	4		HOLD	X		G-4A Grab	4				X
WC-4C	7+8	X				G-4B Comp	4		HOLD	X		G-4B Grab	4				X
WC-5A	9+10	X				G-4C Comp	4		HOLD	X		G-4C Grab	4				X
WC-5B	9+10	X				G-5A Comp	5		HOLD	X		G-5A Grab	5				X
WC-5C	9+10	X				G-5B Comp	5		HOLD	X		G-5B Grab	5				X
WC-6A	11+12	X				G-5C Comp	5		HOLD	X		G-5C Grab	5				X
WC-6B	11+12	X				G-6A Comp	6		HOLD	X		G-6A Grab	6				X
WC-6C	11+12	X				G-6B Comp	6		HOLD	X		G-6B Grab	6				X
WC-6D	11+12	X				G-6C Comp	6		HOLD	X		G-6C Grab	6				X
						G-6D Comp	6		HOLD	X		G-6D Grab	6				X
						G-7A Comp	7		HOLD	X		G-7A Grab	7				X
						G-7B Comp	7		HOLD	X		G-7B Grab	7				X
						G-7C Comp	7		HOLD	X		G-7C Grab	7				X
						G-8A Comp	8		HOLD	X		G-8A Grab	8				X
						G-8B Comp	8		HOLD	X		G-8B Grab	8				X
						G-8C Comp	8		HOLD	X		G-8C Grab	8				X
						G-9A Comp	9		HOLD	X		G-9A Grab	9				X
						G-9B Comp	9		HOLD	X		G-9B Grab	9				X
						G-9C Comp	9		HOLD	X		G-9C Grab	9				X
						G-10A Comp	10		HOLD	X		G-10A Grab	10				X
						G-10B Comp	10		HOLD	X		G-10B Grab	10				X
						G-10C Comp	10		HOLD	X		G-10C Grab	10				X
						G-11A Comp	11		HOLD	X		G-11A Grab	11				X
						G-11B Comp	11		HOLD	X		G-11B Grab	11				X
						G-11C Comp	11		HOLD	X		G-11C Grab	11				X
						G-11D Comp	11		HOLD	X		G-11D Grab	11				X
						G-12A Comp	12		HOLD	X		G-12A Grab	12				X
						G-12B Comp	12		HOLD	X		G-12B Grab	12				X
						G-12C Comp	12		HOLD	X		G-12C Grab	12				X
						G-12D Comp	12		HOLD	X		G-12D Grab	12				X

APPENDICES

Appendix A: Off-Site Disposal Facilities Permits and Application Forms

Phase III Environmental

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**General Permit
For
Processing/Beneficial Use of Municipal Waste**Permit No. WMGR096NE003Date Amended December 23, 2013Date Issued December 23, 2013Date Expires December 23, 2018

The Department of Environmental Protection, Bureau of Waste Management, Division of Municipal and Residual Waste hereby approves the:

☒ Beneficial Use ☐ Processing prior to Beneficial Use ☐ Other

of: Regulated fill as defined in Guidance Document 258-2182-773 (Management of Fill).

for use as: Construction material.

This approval is granted to: Phase III Environmental, LLC

Site: 1120 Mauch Chunk Road

Palmerton, PA 18071

subject to the attached conditions and may be revoked or suspended for any project which the Department of Environmental Protection determines to have a substantial risk to public health, the environment, or cannot be adequately regulated under the provisions of this permit.

The processing of wastes not specifically identified in the documentation submitted for this approval, or the beneficial use of wastes not approved in this permit, is prohibited without the written permission of the Department.

This permit is issued under the authority of the Solid Waste Management Act (35 P.S. §§6018.101-6018.1003), The Pennsylvania Used Oil Recycling Act (58 P.S. §§471-480), The Clean Streams Law (35 P.S. §§691.1-691.1001), Sections 1905-A, 1917-A and 1920-A of the Administrative Code of 1929 (71 P.S. §§510-5, 510-17 and 510-20) and the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§4000.101-4000.1904).

This approval is granted:

By: William Tomayko

☐ Statewide ☒ Regional

Title: Environmental Program Manager

THIS PERMIT IS NON-TRANSFERABLE

GENERAL PERMIT NUMBER WMGR096

Regulated Fill

Rev. 12/2013

1. *Permitted Activities.* The approval herein granted is limited to the beneficial use of regulated fill as a construction material when moved offsite or received onsite. Regulated fill may only be moved to a property that is approved for construction and that is zoned and used exclusively for commercial and industrial uses or that is unzoned but is exclusively used for commercial and industrial uses (excluding parks, playgrounds, nursing homes, child care facilities, schools or other residential-style facilities or recreation areas). This permit does not authorize blending or processing of material to meet concentration limits in Table GP-1.
2. *Definitions.* The following terms, when used in this permit, have the following meanings:

“*Regulated fill*” is soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such that has been affected by a spill or release of a regulated substance and the concentrations of regulated substances exceed the values in Table FP-1 of the Department’s fill policy.

“*Historic fill*” is material (excluding landfills, waste piles and impoundments) used to bring an area to grade prior to 1988 that is a conglomeration of soil and residuals, such as ashes from the residential burning of wood and coal, incinerator ash, coal ash, slag, dredged material and construction and demolition waste. The term does not include iron or steel slag that is separate from residuals if it meets the coproduct definition and the requirements of 25 Pa. Code § 287.8. The term does not include coal ash that is separate from residuals if it is beneficially used in accordance with 25 Pa. Code Chapter 290.
3. *Concentration limits.* Regulated fill may not exceed the values in Table GP-1.
4. *Hazardous waste prohibited.* Material that is hazardous waste under Chapter 261a (relating to identification and listing of hazardous waste) may not be used under this permit.
5. *Proper management of fill.* Regulated fill may not be placed on a greenfield property not planned for development, or on a property currently used for or planned for residential use. Material containing concentrations of regulated substances that exceed the values in Table GP-1 may not be moved under the provisions of this general permit, but must be managed in accordance with the provisions of the Department’s municipal or residual waste regulations.
6. *Proper management of dredged materials.* In addition to meeting the values in Table GP-1, regulated fill consisting of dredged material from tidal streams shall meet 250 mg/l for chlorides based on an SPLP analysis.
7. *Proper management of fill materials containing metals.* Regulated fill containing metals may be moved to a site if those metals concentrations meet either the concentration limits for metals in Table GP-1 or the background concentration, whichever is higher. Fill that exceeds the concentration limits must be placed as part of an approved construction project in such a manner that all direct contact exposure pathways are eliminated. The background concentration is defined as the concentration of a substance that is present at the site before beneficial use activities occur under this permit. Background concentrations may be determined by taking a representative number of samples, based

GENERAL PERMIT NUMBER WMGR096

Regulated Fill

Rev. 12/2013

on the size of the site, from each of the receiving site and the fill proposed for beneficial use. The average concentration in the receiving site samples becomes the background concentration.

8. *Notice to municipalities.* A person that applies for coverage under this general permit shall submit a copy of the determination of applicability application to each municipality in which the beneficial use activities will be located a minimum of 60 days prior to initiating operations.
9. *Sampling and analysis.* Prior to the beneficial use, the permittee shall perform chemical analysis on representative samples of regulated fill for the appropriate parameters in accordance with the protocol in Appendix A to the Fill Policy. The chemical analyses required in this condition shall be performed by a laboratory accredited or registered for accreditation under the Pennsylvania Environmental Laboratory Accreditation Act of 2002. The operator of the facility shall inspect all incoming waste to insure that the receipt of the waste is consistent with the permit.
10. *Deed Acknowledgment for beneficial use of regulated fill.* The permittee shall provide to the Department proof of a recorded deed notice that includes the exact location of the fill placed on the property, including longitude and latitude descriptions, and a description of the types of fill identified by sampling and analysis. The location and description shall be made a part of the deed for all future conveyances or transfers of the subject property. This deed notice may be provided as an ongoing part of the project or at the end of the completed project.
11. *Siting limitations.* Regulated fill shall not be beneficially used under this permit unless authorized in writing by the Department:
 - a. in the 100-year floodplain;
 - b. within 100 feet of a sinkhole or area draining into a sinkhole;
 - c. within 50 feet of a dwelling unless the owner has provided a written waiver consenting to the beneficial use being closer than 50 feet;
 - d. within 100 feet of a perennial stream;
 - e. within 300 feet of a water source unless the owner has provided a written waiver consenting to the beneficial use being closer than 300 feet;
 - f. within 300 feet of an exceptional value wetland, an exceptional value water or a high quality water.
 - g. The siting limitations in paragraph 11(a) are not applicable to the placement of regulated fill at a brownfield site provided the placement is in accordance with all other applicable requirements.
12. *Water quality.* Regulated fill shall not be placed in the waters of the Commonwealth.

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13. *Nuisances.* Regulated fill shall not contain any free liquids based on visual inspection, and shall not create public nuisances (for example objectionable odors) and shall minimize the generation of fugitive dust emissions related to operation of the facility.
14. *Stabilization.* Upon completion of areas where regulated fill is beneficially used, the areas shall be promptly vegetated or otherwise stabilized to minimize and control erosion if the construction activity is not undertaken within 30 days of fill placement.
15. *Mixing prohibited.* The regulated fill may not be mixed with other types of solid waste unless otherwise approved by the Department.
16. *Storage and transportation.* The storage and transportation of regulated fill shall be in a manner that does not create a nuisance or be harmful to the public health, safety or the environment. Storage and transportation shall comply with the requirements of 25 Pa. Code Chapters 285 or 299 (relating to storage, collection and transportation of municipal waste and residual waste), whichever is applicable to the waste type being stored or transported.
17. *Discharge of waste prohibited.* This permit does not authorize and shall not be construed as an approval to discharge any other waste, wastewater or runoff from the site where regulated fill originated or the site where regulated fill is beneficially used, to the land or waters of the Commonwealth.
18. *Fugitive emissions.* The permittee shall comply with any applicable fugitive emissions standards adopted under 25 Pa. Code §123.1 and 123.2.
19. *Erosion and sedimentation control.* An erosion and sedimentation control plan shall be implemented that is consistent with the applicable requirements of Chapter 102 (relating to erosion and sedimentation control). A copy of the approved stormwater management, and erosion and sedimentation control plans shall be maintained onsite during construction activities.
20. *Recordkeeping.* Records of analytical evaluations conducted on the regulated fill under this permit, daily records of the weight or volume of the regulated fill received, the placement locations, and the approved construction plans shall be kept onsite by the permittee and at the permittee's place of business. This information shall be available to the Department for inspection and submitted to the Department upon request. This waste analysis information shall be retained by the permittee for a minimum of 5 years.
21. *Relationship to local law.* Nothing in this permit shall be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulation, providing that said local law, ordinance, or regulation is not preempted by the Solid Waste Management Act, 35 PS §6018.101 et seq.; and the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988, 53 P.S. §4000.101 et seq.
22. *Inspections.* As a condition of this permit and of the permittee's authority to conduct the activities authorized by this permit, the person receiving the fill hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credentials and without delay, to have access to and to inspect all areas on

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which solid waste management activities are being, will be, or have been conducted. This authorization and consent shall include consent to collect samples of waste, soils, water, or gases; to take photographs; to perform measurements, surveys, and other tests; to inspect any monitoring equipment; to inspect the methods of operation; and to inspect and/or copy documents, books, and papers required by the Department to be maintained. This permit condition is referenced in accordance with Sections 608 and 610(7) of The Solid Waste Management Act, 35 P.S. § 6018.608 and 6018.610(7). This condition in no way limits any other powers granted under the Solid Waste Management Act.

23. *Prevention of harm or threat of harm.* The activities authorized by this permit shall not harm or present a threat of harm to the health, safety, or welfare of the people or environment. The Department may modify, suspend, revoke, or reissue the authorization granted in this permit if it deems necessary to prevent harm or the threat of harm to the public health, the environment, or if the activities cannot be adequately regulated under the conditions of this permit.
24. *Individual permits.* The permittee shall comply with the terms and conditions of this general permit and with the environmental protection acts to the same extent as if the activities were covered by an individual permit. The Department may require the permittee to apply for, and obtain an individual permit or cease operation if the permittee is not in compliance with the conditions of this general permit or is conducting an activity that harms or presents a threat of harm to the health, safety or welfare of the people or the environment.
25. *Incorporation of application.* All activities conducted under the authorization granted in this permit shall be conducted in accordance with the permittee's application. Except to the extent that the permit states otherwise, the permittee shall use the regulated fill as described in the approved application.
26. *Permit application requirements.* Persons or municipalities that propose to beneficially use regulated fill by operating under the terms and conditions of this general permit after the date of permit issuance shall submit a determination of applicability application for each location of beneficial use. The application shall be sent to the Department's appropriate regional office that has jurisdiction for waste-related activities in the county where the regulated fill will be beneficially used. At a minimum, the following determination of applicability information shall be submitted on application forms provided by the Department:
 - a. Name and street address of the applicant;
 - b. Names, addresses, and locations of known or potential sources of regulated fill and estimated source weights or volumes;
 - c. Name, location, area and ownership of the location of beneficial use;
 - d. Documentation including laboratory analytical results and a certification by the permittee that the regulated fill meets the conditions of this general permit;
 - e. Number and title of the general permit;

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- f. Proof that the beneficial use management activities are consistent with the general permit.
 - g. A description of the activities that will take place and an estimated schedule for placement of regulated fill.
 - h. If the size of the receiving site, where the beneficial use takes place, is greater than or equal to one acre, proof that a Pennsylvania Natural Diversity Inventory (PNDI) review at the site has been completed. This review should be in accordance with the Department's policy #400-0200-001, "Policy for Pennsylvania Natural Diversity Inventory Coordination During Permit Review and Evaluation" (Jan. 18, 2003) and all known occurrences must be resolved with the jurisdictional agency. If a PNDI review has been completed at the receiving site under another Department program, the report of that review and approval may be submitted to the Department to satisfy this permit application requirement.
 - i. Signed and notarized statement by the person who seeks the "determination of applicability" to accept all conditions and operate under the terms and conditions of this general permit;
 - j. Proof that copies of the "determination of applicability" have been submitted to each municipality, county, county planning agency and county health department where the beneficial use is located;
 - k. Proof that the applicant has legal right to enter the land where the beneficial use will occur and perform the activities approved in Condition 1 of this permit and an irrevocable written consent from the landowner giving the Department permission to enter upon land where the applicant will be conducting waste management activities;
 - l. Information that identifies the applicant (i.e. individual, corporation, partnership, government agency, association, etc.) and related parties, including the names and addresses of every officer who has a financial interest in or controls the facility operation;
 - m. Evidence must be provided by persons operating under this general permit of noncompliance with state and federal environmental laws and regulations;
 - n. Independent contractors retained by the applicant to perform any activities authorized under this permit must comply with state and federal laws and regulations relating to environmental protection and transportation safety; and
 - o. The non-refundable fee for a determination of applicability fee, as specified in the residual waste management regulations, payable to the "Commonwealth of Pennsylvania."
- 27 *Commencement of activities.* For persons or municipalities that propose to beneficially use regulated fill on nonresidential brownfields, the activities may commence after 60 working days from the date the determination of applicability application is submitted to the Department, unless otherwise instructed by the Department. A "brownfield" is defined as real property where regulated substances have been released and remain present. For persons or municipalities that propose to beneficially use regulated fill for one of the following, the activities may commence after 60 working days from the

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date the determination of applicability application is submitted to the Department, unless otherwise instructed by the Department:

- a. on nonresidential greenfields;
- b. on properties where the area subject to regulated fill placement is larger than 10 acres; or
- c. on properties where waiver or modification of a siting limitation in Condition 11 has been requested.

A "greenfield" is defined as real property that is not a brownfield.

28. *New sources of fill.* If new sources of regulated fill are to be included at the approved beneficial use location, the permittee shall notify the Department in writing by submitting information in accordance with subparts (b) and (d) of Condition 26 above. A permittee may commence with beneficial use of the new source after 10 working days from the date the information is submitted to the Department, unless otherwise instructed by the Department.
29. *Expansions.* If the placement of additional regulated fill will be expanded beyond the permitted area, the permittee shall notify the Department in writing by submitting information in accordance with subparts (a)-(h) and (j) – (k) of Condition 26 above. If additional regulated fill volumes are needed for the approved construction activities within the existing permitted area, the permittee shall submit a letter notifying the appropriate Department regional office. The letter shall include a description of the proposed changes and identify the additional volumes necessary.
30. *Notification of changes in operator.* Any person who is operating under the provisions of this permit shall immediately notify, in writing, the waste program Operations Manager of the appropriate regional office of the Department (address in attached list) within 30 days via certified mail of any changes in: the company name, address, owners, operators, and/or responsible officials of the company; the generator(s) of the regulated fill; the compliance status (e.g., violations) of any permit issued by the Department or federal government under the environmental protection acts
31. *Determination that material is no longer waste.* Regulated fill that meets all the terms and conditions of this permit and that does not exceed concentration limits in Table GP-1 shall cease to be waste once the regulated fill is placed. If dewatered regulated fill is subsequently excavated or moved beyond the area permitted for fill placement, it will then be subject to applicable requirements for the use of regulated fill.
32. *Revocation or suspension.* Failure of the measures herein approved to be performed as intended, or as designed, or in compliance with the applicable laws, rules and regulations, and terms and conditions of this permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this permit.

Table GP-1a
Regulated Fill Concentration Limits For Organics

PARAMETER	Regulated Fill	
	Total analysis	
	CASRN	mg/kg
ACENAPHTHENE	83-32-9	4700
ACENAPHTHYLENE	208-96-8	6900
ACEPHATE	30560-19-1	3.6
ACETALDEHYDE	75-07-0	0.63
ACETONE	67-64-1	110
ACETONITRILE	75-05-8	3.9
ACETOPHENONE	98-86-2	540
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	0.28
ACROLEIN	10-702-8	0.0014
ACRYLAMIDE	79-06-1	0.0024
ACRYLIC ACID	79-10-7	0.11
ACRYLONITRILE	107-13-1	0.037
ALACHLOR	15972-60-8	0.077
ALDICARB	116-06-3	0.12
ALDRIN	309-00-2	0.44
ALLYL ALCOHOL	107-18-6	1.2
AMINOBIIPHENYL, 4-	92-67-1	0.0046
AMITROLE	61-82-5	0.12
AMMONIA	7664-41-7	360
AMMONIUM SULFAMATE	7773-06-0	24
ANILINE	62-53-3	0.34
ANTHRACENE	120-12-7	350
ATRAZINE	1912-24-9	0.13
BAYGON (PROPOXUR)	114-26-1	0.057
BENOMYL	17804-35-2	970
BENTAZON	25057-89-0	45
BENZENE	71-43-2	0.13
BENZIDINE	92-87-5	0.34
BENZO[A]ANTHRACENE	56-55-3	110
BENZO[A]PYRENE	50-32-8	11
BENZO[B]FLUORANTHENE	205-99-2	110
BENZO[GH]PERYLENE	191-24-2	180
BENZO[K]FLUORANTHENE	207-08-9	610
BENZOIC ACID	65-85-0	7800
BENZOTRICHORIDE	98-07-7	0.048
BENZYL ALCOHOL	100-51-6	1100
BENZYL CHLORIDE	100-44-7	0.22
BHC, ALPHA	319-84-6	0.19
BHC, BETA-	319-85-7	0.82
BHC, DELTA-	319-86-8	30
BHC, GAMMA (LINDANE)	58-89-9	0.072
BIPHENYL, 1,1-	92-52-4	2200
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.017
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	8

Table GP-1a
Regulated Fill Concentration Limits For Organics

BIS(CHLOROMETHYL)ETHER	542-88-1	0.000044
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	130
BISPHENOL A	80-05-7	2000
BROMACIL	314-40-9	2
BROMOCHLOROMETHANE	74-97-5	1.6
BROMODICHLOROMETHANE	75-27-4	3.4
BROMOMETHANE	74-83-9	0.54
BROMOXYNIL	1689-84-5	170
BROMOXYNIL OCTANOATE	1689-99-2	360
BUTADIENE, 1,3-	106-99-0	0.027
BUTYL ALCOHOL, N-	71-36-3	24
BUTYLATE	2008-41-5	51
BUTYLBENZENE, N-	104-51-8	2600
BUTYLBENZENE, SEC-	135-98-8	960
BUTYLBENZENE, TERT-	98-06-6	740
BUTYLBENZYL PHTHALATE	85-68-7	10000
CAPTAN	133-06-2	31
CARBARYL	63-25-2	41
CARBAZOLE	86-74-8	83
CARBOFURAN	1563-66-2	0.87
CARBON DISULFIDE	75-15-0	350
CARBON TETRACHLORIDE	56-23-5	0.26
CARBOXIN	5234-68-4	53
CHLORAMBEN	133-90-4	1.6
CHLORDANE	57-74-9	49
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3	4800
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	0.13
CHLOROACETOPHENONE, 2-	532-27-4	0.026
CHLOROANILINE, P-	106-47-8	52
CHLOROBENZENE	108-90-7	6.1
CHLOROBENZILATE	510-15-6	6.3
CHLOROBUTANE, 1-	109-69-3	6400
CHLORODIBROMOMETHANE	124-48-1	3.2
CHLORODIFLUOROMETHANE	75-45-6	2.6
CHLOROETHANE	75-00-3	19
CHLOROFORM	67-66-3	2.5
CHLORONAPHTHALENE, 2-	91-58-7	18000
CHLORONITROBENZENE, P-	100-00-5	18
CHLOROPHENOL, 2-	95-57-8	4.4
CHLOROPRENE	126-99-8	0.97
CHLOROPROPANE, 2-	75-29-6	44
CHLOROTHALONIL	1897-45-6	61
CHLOROTOLUENE, O-	95-49-8	20
CHLORPYRIFOS	2921-88-2	23

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

CHLORSULFURON	64902-72-3	71
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	650
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
CHRYSENE	218-01-9	230
CRESOL(S)	1319-77-3	8.9
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	180
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	100
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	12
CRESOL, P-CHLORO-M-	59-50-7	110
CROTONALDEHYDE	4170-30-3	0.0043
CROTONALDEHYDE, TRANS-	123-73-9	0.0043
CUMENE	98-82-8	1600
CYCLOHEXANONE	108-94-1	2800
CYFLUTHRIN	68359-37-5	33
CYROMAZINE	66216-27-8	240
DDD, 4,4'-	72-54-8	30
DDE, 4,4'-	72-55-9	170
DDT, 4,4'-	50-29-3	230
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	10000
DIALATE	2303-16-4	0.59
DIAMINOTOLUENE, 2,4-	95-80-7	0.016
DIAZINON	333-41-5	0.082
DIBENZO[A,H]ANTHRACENE	53-70-3	11
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0092
DIBROMOBENZENE, 1,4-	106-37-6	410
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.0012
DIBROMOMETHANE	74-95-3	7.7
DIBUTYL PHTHALATE, N-	84-74-2	4100
DICHLORO-2-BUTENE, 1,4-	764-41-0	0.0039
DICHLOROBENZENE, 1,2-	95-50-1	59
DICHLOROBENZENE, 1,3-	541-73-1	61
DICHLOROBENZENE, P-	106-46-7	10
DICHLOROBENZIDINE, 3,3'-	91-94-1	32
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	100
DICHLOROETHANE, 1,1-	75-34-3	2.7
DICHLOROETHANE, 1,2-	107-06-2	0.1
DICHLOROETHYLENE, 1,1-	75-35-4	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	1.6
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	2.3
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.076
DICHLOROPHENOL, 2,4-	120-83-2	1
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	1.8
DICHLOROPROPANE, 1,2-	78-87-5	0.11
DICHLOROPROPENE, 1,3-	542-75-6	0.46
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	75-99-0	5.3

Table GP-1a
Regulated Fill Concentration Limits For Organics

DICHLORVOS	62-73-7	0.052
DICYCLOPENTADIENE	77-73-6	0.26
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
DIELDRIN	60-57-1	0.44
DIETHYL PHTHALATE	84-66-2	160
DIFLUBENZURON	35367-38-5	52
DIMETHOATE	60-51-5	0.77
DIMETHOXYBENZIDINE, 3,3-	119-90-4	64
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	0.15
DIMETHYLANILINE, N,N-	000121-69-7	11
DIMETHYLBENZIDINE, 3,3-	000119-93-7	1.5
DIMETHYLPHENOL, 2,4-	105-67-9	87
DINITROBENZENE, 1,3-	99-65-0	0.049
DINITROPHENOL, 2,4-	51-28-5	0.46
DINITROTOLUENE, 2,4-	121-14-2	0.2
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	3
DINOSEB	88-85-7	0.29
DIOXANE, 1,4-	123-91-1	0.31
DIPHENAMID	957-51-7	12
DIPHENYLAMINE	122-39-4	12
DIPHENYLHYDRAZINE, 1,2-	122-66-7	0.58
DIQUAT	85-00-7	0.24
DISULFOTON	298-04-4	0.078
DIURON	330-54-1	0.86
ENDOSULFAN	115-29-7	61
ENDOSULFAN I (ALPHA)	959-98-8	260
ENDOSULFAN II (BETA)	33213-65-9	260
ENDOSULFAN SULFATE	1031-07-8	70
ENDOTHALL	145-73-3	4.1
ENDRIN	72-20-8	5.5
EPICHLOROHYDRIN	106-89-8	0.12
ETHEPHON	16672-87-0	5.9
ETHION	563-12-2	110
ETHOXYETHANOL, 2- (EGEE)	110-80-5	17
ETHYL ACETATE	141-78-6	470
ETHYL ACRYLATE	140-88-5	0.5
ETHYL BENZENE	100-41-4	46
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	758-94-4	180
ETHYL ETHER	60-29-7	120
ETHYL METHACRYLATE	97-63-2	30
ETHYLENE GLYCOL	107-21-1	170
ETHYLENE THIOUREA (ETU)	96-45-7	0.034
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	0.31
FENAMIPHOS	22224-92-6	0.17
FENVALERATE (PYDRIN)	51630-58-1	94

**Table GP-1a
Regulated Fill Concentration Limits For Organics**

FLUOMETURON	2164-17-2	2.5
FLUORANTHENE	206-44-0	3200
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
FLUORENE	86-73-7	3800
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	87
FONOFOS	944-22-9	2.9
FORMALDEHYDE	50-00-0	12
FORMIC ACID	64-18-6	460
FOSETYL-AL	39148-24-8	27000
FURAN	110-00-9	0.87
FURFURAL	98-01-1	3.7
GLYPHOSATE	1071-83-6	620
HEPTACHLOR	76-44-8	0.68
HEPTACHLOR EPOXIDE	1024-57-3	1.1
HEXACHLOROBENZENE	118-74-1	0.96
HEXACHLOROBUTADIENE	87-68-3	1.2
HEXACHLOROCYCLOPENTADIENE	77-47-4	91
HEXACHLOROETHANE	67-72-1	0.56
HEXANE	110-54-3	1100
HEXYTHIAZOX (SAVEY)	78587-05-0	820
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.00042
HYDROQUINONE	123-31-9	55
INDENO[1,2,3-CD]PYRENE	193-39-5	110
IPRODIONE	36734-19-7	1200
ISOBUTYL ALCOHOL	78-83-1	160
ISOPHORONE	78-59-1	1.9
KEPONE	143-50-0	2.2
MALATHION	121-75-5	34
MALEIC HYDRAZIDE	123-33-1	47
MANEB	12427-38-2	5.8
MERPHOS OXIDE	78-48-8	41
METHACRYLONITRILE	126-98-7	0.067
METHAMIDOPHOS	10265-92-6	0.063
METHANOL	67-56-1	120
METHOMYL	16752-77-5	3.2
METHOXYCHLOR	72-43-5	630
METHOXYETHANOL, 2-	109-86-4	1.1
METHYL ACETATE	79-20-9	1900
METHYL ACRYLATE	96-33-3	77
METHYL CHLORIDE	74-87-3	0.038
METHYL ETHYL KETONE	78-93-3	110
METHYL ISOBUTYL KETONE	108-10-1	6.3
METHYL METHACRYLATE	80-62-6	56
METHYL METHANESULFONATE	66-27-3	0.32
METHYL PARATHION	298-00-0	0.42

Table GP-1a
Regulated Fill Concentration Limits For Organics

METHYL STYRENE (MIXED ISOMERS)	25013-15-4	340
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.28
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	15
METHYLNAPHTHALENE, 2-	91-57-6	8000
METHYLSTYRENE, ALPHA	98-83-9	250
NAPHTHALENE	91-20-3	25
NAPHTHYLAMINE, 1-	134-32-7	1.1
NAPHTHYLAMINE, 2-	91-59-8	0.046
NAPROPAMIDE	15299-99-7	2300
NITROANILINE, M-	99-09-2	0.091
NITROANILINE, O-	88-74-4	0.1
NITROANILINE, P-	100-01-6	0.086
NITROBENZENE	98-95-3	2.2
NITROPHENOL, 2-	88-75-5	17
NITROPHENOL, 4-	100-02-7	4.1
NITROPROPANE, 2-	79-46-9	0.0011
NITROSODIETHYLAMINE, N-	55-18-5	0.000076
NITROSODIMETHYLAMINE, N-	62-75-9	0.00017
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	0.014
NITROSODI-N-PROPYLAMINE, N-	621-64-7	0.0051
NITROSODIPHENYLAMINE, N-	86-30-6	83
NITROSO-N-ETHYLUREA, N-	759-73-9	0.00022
OCTYL PHTHALATE, DI-N-	117-84-0	10000
OXAMYL (VYDATE)	23135-22-0	2.6
PARATHION	56-38-2	360
PCB-1016 (AROCLOR)	12674-11-2	200
PCB-1221 (AROCLOR)	11104-28-2	2.5
PCB-1232 (AROCLOR)	11141-16-5	2
PCB-1242 (AROCLOR)	53469-21-9	62
PCB-1248 (AROCLOR)	12672-29-6	44
PCB-1254 (AROCLOR)	11097-69-1	44
PCB-1260 (AROCLOR)	11096-82-5	130
PEBULATE	1114-71-2	860
PENTACHLOROBENZENE	608-93-5	660
PENTACHLORONITROBENZENE	82-68-8	20
PENTACHLOROPHENOL	87-86-5	5
PHENACETIN	62-44-2	46
PHENANTHRENE	85-01-8	10000
PHENOL	108-95-2	66
PHENYLENEDIAMINE, M-	108-45-2	8.6
PHENYLPHENOL, 2-	90-43-7	1900
PHORATE	298-02-2	0.88
PHTHALIC ANHYDRIDE	85-44-9	6200
PICLORAM	1918-02-1	7.4
PRONAMIDE	23950-58-5	3.1

Table GP-1a
Regulated Fill Concentration Limits For Organics

PROPANIL	709-98-8	26
PROPHAM	122-42-9	48
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
PROPYLBENZENE, N-	103-65-1	780
PROPYLENE OXIDE	75-56-9	0.19
PYRENE	129-00-0	2200
PYRIDINE	110-86-1	0.22
QUINOLINE	91-22-5	0.074
QUIZALOFOP (ASSURE)	76578-14-8	47
RONNEL	299-84-3	800
SIMAZINE	122-34-9	0.15
STRYCHNINE	57-24-9	2.5
STYRENE	100-42-5	24
TEBUTHIURON	34014-18-1	83
TERBACIL	5902-51-2	2.2
TERBUFOS	13071-79-9	0.12
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	14
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00053
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	18
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.0093
TETRACHLOROETHYLENE (PCE)	127-18-4	0.43
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	950
TETRAETHYL LEAD	78-00-2	0.012
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	1.5
THIOFANOX	39196-18-4	0.34
THIRAM	137-26-8	130
TOLUENE	108-88-3	44
TOLUIDINE, M-	108-44-1	0.51
TOLUIDINE, O-	95-53-4	1.2
TOLUIDINE, P-	106-49-0	1.3
TOXAPHENE	8001-35-2	1.2
TRIALATE	2303-17-5	660
TRIBROMOMETHANE (BROMOFORM)	75-25-2	4.4
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	53000
TRICHLOROBENZENE, 1,2,4-	120-82-1	27
TRICHLOROBENZENE, 1,3,5-	108-70-3	31
TRICHLOROETHANE, 1,1,1-	71-55-6	7.2
TRICHLOROETHANE, 1,1,2-	79-00-5	0.15
TRICHLOROETHYLENE (TCE)	79-01-6	0.17
TRICHLOROPHENOL, 2,4,5-	95-95-4	6100
TRICHLOROPHENOL, 2,4,6-	88-06-2	8.9
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	1.5
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP) (SILVEX)	93-72-1	22
TRICHLOROPROPANE, 1,1,2-	598-77-6	8.7
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.82

Table GP-1a
Regulated Fill Concentration Limits For Organics

TRICHLOROPROPENE, 1,2,3-	96-19-5	30
TRIFLURALIN	1582-09-8	0.96
PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	20
TRIMETHYLBENZENE, 1,3,5-	108-67-8	6.2
TRINITROTOLUENE, 2,4,6-	118-96-7	0.023
VINYL ACETATE	108-05-4	14
VINYL BROMIDE (BROMOETHENE)	593-60-2	0.28
VINYL CHLORIDE	75-01-4	0.027
WARFARIN	81-81-2	7.4
XYLENES (TOTAL)	1330-20-7	990
ZINEB	12122-67-7	81

**Table GP-1b
Regulated Fill Concentration Limits For Metals and Inorganics**

PARAMETER		Regulated Fill
		Total analysis
	CASRN	mg/kg
ALUMINUM	7429-90-5	190000
ANTIMONY	7440-36-0	27
ARSENIC	7440-38-2	53
BARIUM AND COMPOUNDS	7440-39-3	8200
BERYLLIUM	7440-41-7	320
BORON AND COMPOUNDS	7440-42-8	6.7
CADMIUM	7440-43-9	38
CHROMIUM III	16065-83-1	190000
CHROMIUM VI	18540-29-9	190
COBALT	7440-48-4	22
COPPER	7440-50-8	36000
CYANIDE, FREE	57-12-5	200
IRON	7439-89-6	190000
LEAD	7439-92-1	450
MANGANESE	7439-96-5	190000
MERCURY	7439-97-6	10
NICKEL	7440-02-0	650
NITRATE NITROGEN	14797-55-8	na
NITRITE NITROGEN	14797-65-0	na
SELENIUM	7782-49-2	26
SILVER	7440-22-4	84
THALLIUM	7440-28-0	14
TIN	7440-31-5	680
VANADIUM	7440-62-2	72000
ZINC	7440-66-6	12000

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Waste Management

DOCUMENT NUMBER: 258-2182-773

**INTERIM FINAL
EFFECTIVE DATE:** August 7, 2010

TITLE: Management of Fill

AUTHORITY: This document is established in accordance with the Act of July 7, 1980, as amended, 35 P.S. §§ 6018.101 *et seq.*, known as the Solid Waste Management Act (SWMA); the Act of June 22, 1937, as amended, 35 P.S. §§ 691.1 *et seq.*, known as the Clean Streams Law; the Act of April 9, 1929, Section 1917-A of the Administrative Code, 71 P.S. § 510-17; the Act of July 18, 1995, 35 P.S. §§ 6026.101 *et seq.*, known as the Land Recycling and Environmental Remediation Standards Act.

POLICY: This policy is designed to replace the Department's existing Clean Fill Policy dated February 29, 1996.

PURPOSE: This policy provides DEP's procedures for determining whether material is clean fill or regulated fill. Regulated fill may not be used unless a SWMA permit is secured by the individual or entity using the regulated fill.

APPLICABILITY: This policy shall be used to evaluate whether material qualifies as clean fill or regulated fill. This policy does not apply to mine land reclamation activities subject to a permit. Excavation, movement or reuse of fill material within a project area or right-of-way of a project is not an activity that requires a SWMA permit.

DISCLAIMER: The policies and procedures outlined in this guidance document are intended to supplement existing requirements. Nothing in the policies or procedures shall affect regulatory requirements. The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of the DEP to give the rules in these policies that weight or deference. This document establishes the framework within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy statement if circumstances warrant.

PAGE LENGTH: 10 pages

LOCATION: Volume 6, Tab 40(b)

DEFINITIONS:

Act 2 - The Land Recycling and Environmental Remediation Standards Act, Act of May 18, 1995 (P.L. 4, No. 1995-2), 35 P.S. §§ 6026.101 et seq.

Clean fill - Uncontaminated, nonwater-soluble, nondecomposable inert solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such. (25 Pa. Code §§ 271.101 and 287.101) The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized.

Environmental due diligence - Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of ownership and use history of property, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits.

Historic fill - Material (excluding landfills, waste piles and impoundments) used to bring an area to grade prior to 1988 that is a conglomeration of soil and residuals, such as ashes from the residential burning of wood and coal, incinerator ash, coal ash, slag, dredged material and construction and demolition waste. The term does not include iron or steel slag that is separate from residuals if it meets the coproduct definition and the requirements of 25 Pa. Code § 287.8. The term does not include coal ash that is separate from residuals if it is beneficially used in accordance with 25 Pa. Code § 287.661 - 287.666.

Regulated fill - Soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such that has been affected by a spill or release of a regulated substance and the concentrations of regulated substances exceed the values in Table FP-1a and b.

Regulated substance - The term shall include hazardous substances and contaminants regulated under the Hazardous Sites Cleanup Act, and substances covered by the Clean Streams Law, the Air Pollution Control Act, the Solid Waste Management Act, the Infectious and Chemotherapeutic Waste Law, and the Storage Tank and Spill Prevention Act.

Release - Spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing of a regulated substance into the environment in a manner not authorized by the Department of Environmental Protection. The term includes the abandonment or discarding of barrels, containers, vessels and other receptacles containing a regulated substance.

Uncontaminated material - Material unaffected by a spill or release of a regulated substance, or if affected by a spill or release, the concentrations of regulated substances are below the concentrations specified in Table FP-1a and b.

REFERENCES:

25 Pa. Code Chapters 287 to 299 (residual waste regulations)

25 Pa. Code Chapters 271 to 285 (municipal waste regulations)

Solid Waste Management Act, 35 P.S. §§ 6018.101 et seq.

Land Recycling and Environmental Remediation Standards Act, 35 P.S. §§ 6026.101 et seq.

TECHNICAL GUIDANCE:

FILL DETERMINATION

- 1) To determine whether fill is clean or regulated, a person must perform environmental due diligence.¹
 - a) If due diligence shows no evidence of a release of a regulated substance, the material may be managed as clean fill under this policy.
 - b) If due diligence shows evidence of a release, the material must be tested to determine if it qualifies as clean fill. Testing must be performed in accordance with Appendix A.
 - i) If testing reveals that the material contains concentrations of regulated substances that are below the residential limits in Table FP-1a and b, the material must be managed as clean fill.
 - ii) If testing reveals that the material contains concentrations of regulated substances that exceed the limits in Table FP-1a and b, the material must be managed as regulated fill.
- 2) A person may not blend or mix materials to become clean fill. Materials that contain regulated substances that are intentionally released may not be managed under this policy.

MANAGEMENT OF REGULATED FILL

- 1) Materials identified as regulated fill are waste and must be managed in accordance with the Department's municipal or residual waste regulations, whichever is applicable, based on 25 Pa. Code §§ 287.2 or 271.2. Regulated fill may be beneficially used under General Permit WMGR096 (proposed) if the materials and the proposed activities for the fill meet the conditions of that permit. A person may apply for an industry-wide beneficial use general permit for the beneficial use of regulated fill in lieu of this general permit.
- 2) Regulated fill may not be placed on a greenfield property not planned for development, or on a property currently in residential use or planned for residential use unless otherwise authorized.
- 3) Fill containing concentrations of regulated substances that exceed the values in Table GP-1 a and b may not be managed under the provisions of this policy or General Permit WMGR096, but must be otherwise managed in accordance with the provisions of the Department's municipal or residual waste regulations.
- 4) A general permit is not required for remediation activities undertaken entirely on an Act 2 site pursuant to the requirements of Section 902 of the Land Recycling and Environmental Remediation Standards Act. A general permit is also not required if regulated fill from an Act 2 site is used as construction material at a receiving site that is being remediated to attain an Act 2 standard as long as the procedural and substantive requirements of Act 2 are met. Regulated

¹ Analytical assessment, testing or sampling is only required if visual inspection or reviews of historic property use indicates evidence of a release of a regulated substance.

substances contained in the regulated fill must be incorporated into the notice of intent to remediate and the final report. Movement of regulated fill between Act 2 sites must be documented in both the sending and receiving sites' cleanup plans and final reports. Placement of the regulated fill may not cause the receiving site undergoing remediation to exceed the selected Act 2 standard.

MANAGEMENT OF CLEAN FILL

- 1) Use of material as clean fill does not require a permit under the Solid Waste Management Act and regulations, and it may be used in an unrestricted or unregulated manner under this Act and its regulations. The use of materials as clean fill is still regulated under other environmental laws and regulations. A person using materials as clean fill under the policy is still subject to and must comply with all applicable requirements governing the placement or use of material as clean fill, such as Chapter 102 (Erosion and Sediment Control) and Chapter 105 (Dam Safety and Waterway Management).
- 2) Any person placing clean fill which has been affected by a release of a regulated substance on a property must certify the origin of the fill material and results of analytical testing to qualify the material as clean fill on Form FP-001. Form FP-001 must be retained by the owner of the property receiving the fill.
- 3) Best management practices (BMP) must be followed prior to demolition activities to remove materials like lead-based paint surface, friable asbestos and hazardous materials such as mercury switches, PCB ballasts and fluorescent light bulbs from a building if the brick, block, or concrete is used as clean fill.
- 4) Clean fill may not contain any free liquids based on visual inspection, and shall not create public nuisances (for example objectionable odors) to users of the receiving property or adjacent properties.

Appendix A

Sampling and Analyses for Regulated Material to be Used as Fill:

Sampling of regulated material proposed to be used as fill shall be done either by composite samples or by discrete samples. Sampling in either case shall be random and representative of the fill material being sampled. Sampling shall be in accordance with the most current version of the EPA RCRA Manual, SW-846 (*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response*).

- (a) Sampling based on composite sampling procedures shall include the following:
 - (i) For volumes of material equal to or less than 125 cubic yards, a total of eight samples shall be collected and analyzed as follows:
 - (A) For analysis of all substances other than volatile organic compounds (VOCs), the samples shall be analyzed in two composites of four samples each, in accordance with the most current version of the USEPA Manual, SW-846 (*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response*).
 - (B) Two samples shall be selected from the 8 samples for analysis of VOCs. The samples shall be based on field screening of the eight samples to select those samples that are most likely to contain the highest concentrations of VOCs.
 - (C) Two grab samples shall be taken from the same areas in the material from which the two samples used for field screening of VOCs were taken, in accordance with Method 5035 from the most current version of the USEPA Manual, SW-846 (*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response*).
 - (ii) For volumes of material greater than 125 cubic yards and less than or equal to 3,000 cubic yards, a total of 12 samples shall be collected and analyzed as follows:
 - (A) For analysis of all substances other than VOCs, the samples shall be analyzed in three composites of four samples each.
 - (B) Three samples shall be selected from the 12 samples for analysis of VOCs. The samples shall be based on field screening of the 12 samples to select those samples that are most likely to contain the highest concentrations of VOCs.
 - (C) Three grab samples shall be taken from the same areas in the material from which the three samples used for field screening of VOCs were taken, in accordance with EPA Method 5035, referenced in subparagraph (i)(C).

- (iii) For each additional 3,000 cubic yards of material or part thereof over the initial 3,000 cubic yards, 12 additional samples shall be collected and analyzed as follows:
 - (A) For analysis of all substances other than VOCs, the samples shall be analyzed in three composites of four samples each.
 - (B) Three samples for analysis of VOCs shall be selected from the 12 samples for analysis of VOCs. The samples shall be based on field screening of the 12 samples to select those samples that are most likely to contain the highest concentrations of VOCs.
 - (C) Three grab samples shall be taken from the same areas in material from which the three samples used for field screening of VOCs were taken, in accordance with EPA Method 5035, referenced in subparagraph (i)(C).
- (b) Sampling based on discrete sampling procedures shall include the following:
 - (i) For volumes of material equal to or less than 125 cubic yards, a minimum of eight samples shall be collected and analyzed. For volumes of material greater than 125 cubic yards and less than or equal to 3,000 cubic yards, a minimum of 12 samples shall be collected and analyzed. For each additional 3,000 cubic yards of material or part thereof over the initial 3,000 cubic yards, a minimum of 12 additional samples shall be collected and analyzed.
 - (ii) For VOCs analysis, grab sampling procedures shall be the procedures described in subsection (a), for the equivalent volumes of material sampled.
- (c) Analyses of results:
 - (i) For a composite sample taken in accordance with subsection (a), the measured numeric value for a parameter shall be less than or equal to the concentration limit listed in Table FP-1a or b for that parameter in order for the material to qualify as clean fill, or in Table GP-1a or b for that parameter in order for the fill material to qualify as regulated fill.
 - (ii) For a grab sample, taken in accordance with subsections (a) and (b), the measured numeric value for a parameter shall be less than or equal to the concentration limit listed in Table FP-1a or b for that parameter in order for the material to qualify as clean fill, or in Table GP-1a or b for that parameter for the fill material to qualify as regulated fill.
 - (iii) For discrete samples required in subsection (b), the measured numeric values for a substance in 75% of the discrete samples shall be equal to or less than the concentration limit listed in Table FP-1a or b, or in Table GP-1a or b for that parameter with no single sample exceeding more than twice the concentration limit for a parameter.
- (d) In lieu of subsection (c), a person may use 95% Upper Confidence Limit (UCL) of the arithmetic mean to determine whether a fill material meets the appropriate concentration limits for use as clean or regulated fill. The calculated 95% UCL of the arithmetic mean must be below the appropriate concentration limit for clean or regulated fill. Sampling shall be random and

representative of the material being sampled. The minimum number of samples shall be determined in accordance with EPA approved methods on statistical analysis of environmental data, as identified in 25 PA. Code, §250.707(e) (relating to statistical tests). The application of the 95% UCL of the arithmetic mean shall comply with the following performance standards:

- (i) The null hypotheses (Ho) shall be that the true fill arithmetic average concentration is at or above the regulated fill appropriate concentration limit, and the alternative hypothesis (Ha) shall be that the true fill arithmetic average concentration is below the regulated fill appropriate concentration limit.
- (ii) The underlying assumptions of the statistical method shall be met, such as data distribution.
- (iii) Compositing cannot be used for volatile organic compounds.
- (iv) The censoring level for each nondetect shall be the assigned value randomly generated that is between zero and the limit related to the PQL.
- (v) Tests shall account for spatial variability, unless otherwise approved by the Department.
- (vi) Statistical testing shall be done individually for each parameter present in the fill.
- (vii) Where a fill has distinct physical, chemical or biological characteristics, or originates from different areas, the statistical testing shall be done separately.
- (viii) The following information shall be documented:
 - (A) A description of the original areas of the fill, and physical, chemical and biological characteristics of the fill.
 - (B) A description of the underlying assumptions of the statistical method.
 - (C) Documentation showing that the sample data set meets the underlying assumptions of the statistical method.
 - (D) Documentation of input and output data for the statistical test, presented in tables or figures, or both, as appropriate.
 - (E) An interpretation and conclusion of the statistical test.

- (e) The Synthetic Precipitation Leaching Procedure (SPLP, per *Technical Guidance Manual*, 253-0300-100/ May 4, 2002 /Page II-26-27), is listed below:

The value for the SPLP is the concentration of a regulated substance in soil at the site that does not produce a leachate in which the concentration of the regulated substance exceeds the groundwater MSC. Since this test must be conducted on the actual site soil, no values for the SPLP could be published in the tables of MSCs in the regulations. The following procedure should be used to determine the alternative soil-to-groundwater value based upon the SPLP:

- (i) During characterization, the remediator should obtain a minimum of ten samples from within the impacted soil area. The four samples with the highest total concentration of the regulated substance should be submitted for SPLP analysis. Samples obtained will be representative of the soil type and horizon impacted by the release of the regulated substance.
- (ii) Determine the lowest total concentration (TC) that generates a failing SPLP result. The alternative soil-to-groundwater standard will be the next lowest TC.
- (iii) If all samples result in a passing SPLP level, the alternative soil-to-groundwater standard will be the TC corresponding to the highest SPLP result. The remediator has the option of obtaining additional samples.
- (iv) If none of the samples generates a passing SPLP, the remediator can obtain additional samples and perform concurrent TC/SPLP analyses to satisfy the above requirements for establishing an alternative soil-to-groundwater standard.

Total Recycling Corporation

Material Acceptance Plan

Fullerton Slag Bank
1820 North Dauphin Street
Allentown, Pennsylvania

On behalf of:

Total Recycling Corp.
3715 Remaly Street
Bethlehem, PA 18018

Submitted by:

Impact Environmental Consulting, Inc
170 Keyland Court
Bohemia, NY 11716

Date:

February 18, 2013



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Exhibit 1, Facility Location Map

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Exhibit 4, PADEP Management of Fill Policy

Exhibit 5, Coproduct Determination

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Exhibit 7, TRC General Liability Insurance Certificate

Exhibit 8, Impact Environmental General, Pollution and E&O Insurance Certificate

Exhibit 9, TRC/Impact Environmental Source Generator Application

Exhibit 10, Example Microsoft Excel Spreadsheet

Exhibit 11, Fullerton Slag Bank NPDES Permit

Exhibit 12, Sample Transportation and Disposal Notification

Exhibit 13: Transportation Charter

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1 Introduction

Defined herein is the material Acceptance Plan (“MAP”) for the receiving operations at the Fullerton Slag Bank (“the Facility”) located at 1820 North Dauphin Street in Lehigh County, Allentown, Pennsylvania (see **Exhibit 1, Facility Location Map**). The Facility is a permitted noncoal surface mine permitted by the Pennsylvania Department of Environmental Protection under the provision of the Clean Streams Law, Noncoal Surface Mining Conservation and Reclamation Act (see **Exhibit 2, Facility Permits 7874SM1T3, 16848-7874SM1-01**). The Facility is owned and operated entirely by Total Recycling Corporation (TRC) of Bethlehem, Pennsylvania.

2 Description of Facility

The Facility is 22.7 acres of mined land located in Allentown Pennsylvania. The Facility was a slag depository (i.e. Fullerton Slag Bank) for the iron industry for 50 years, ending operations circa 1900.

In 1974, the Facility was permitted to reclaim and recycle the existing slag remaining on-site for the manufacture of road base and other construction materials. A Large Non-Coal Mine Operator’s Permit and License has been issued by Pennsylvania Department of Environmental Protection (PADEP) and is renewed annually (**Exhibit 3, Large Non-Coal Mine Operator’s Permit Authorizations**).

3 Description of Facility Operations

The Facility is permitted to receive “Clean Fill” from off-site sources as defined in the PADEP Management of Fill Policy (see **Exhibit 4, PADEP Management of Fill Policy**). Clean Fill is defined as inert solid materials that are certified by the generator to contain contaminant concentrations below analyte-specific threshold values. Solid wastes that have contaminant concentrations that are above the analyte-specific thresholds for Clean Fill are considered Regulated Wastes or Residual Wastes and are NOT accepted at the Facility.

As authorized under the Large Non-Coal Mine Operator’s License, iron blast furnace slag mined at the Facility and mixed with Clean Fill is approved by PADEP as a coproduct that can be used as Engineered Fill (**Exhibit 5, Coproduct Determination Concurrence Authorization**). The processing of these materials is performed at the designated area within the Facility. All products manufactured in this process will only be used for non-residential applications (i.e. on industrial properties, in commercial mix pavements or in mine reclamation).

Clean Fill source owners are notified of the end-use locations that will receive the manufactured coproducts, and can select or limit the use options, if desired. The default use for Clean Fill and Clean Fill/Slag products is as reclamation material at the Former Atlas Quarry (the “Quarry”) located at 700 Savage Road, Northampton, PA. The Quarry is permitted by the PADEP to accept Clean Fill for mine reclamation.

If the Clean Fill as defined demonstrates adequate physical properties to comply with the end use as a coproduct (e.g. engineered fill at the Quarry), it may not require augmentation with slag. In this case, the Clean Fill may, after quality control screening, be delivered directly to the end use facility (e.g. the Quarry).

The Facility is also permitted to process and beneficially reuse steel slag, iron slag, and refractory bricks that were co-disposed with slag as a construction material (**Exhibit 6, General Permit WMGR082D003**). Uses of slag are

limited to the following: as an ingredient in bituminous concrete; as aggregate; as base course; and as antiskid material.

TRC, the Facility and its operations are covered under a \$2,000,000 General Liability Insurance Policy underwritten by Nautilus Insurance Company (see **Exhibit 7, Sample Insurance Certificate**). This policy is required to be maintained by the PADEP Bureau of Mining and Reclamation.

Determinations with respect to the certification of a Clean Fill source and quality control engineering are administered by Impact Environmental Engineering, PLLC and Impact Environmental Consulting, Inc. ("Impact Environmental") of Bohemia, New York. All approvals are issued from Impact Environmental by a licensed Pennsylvania Professional Engineer that is also licensed in the States of New York and New Jersey.

Impact Environmental maintains Professional Errors and Omissions and Pollution Liability Insurance policies (see **Exhibit 8, Impact Environmental General, Pollution and E&O Insurance Certificate**) with an aggregate value of \$23,000,000.

4 Determination of Suitability of Clean Fill Sources

The Project Engineer from Impact Environmental will be designated to oversee all quality control engineering performed to determine the suitability of all Clean Fill sources. The engineering will involve a due diligence review of source related data and analytical testing of all potential Clean Fill sources in accordance with PADEP Management of Fill Policy.

If the data generated from the quality control engineering indicates that a source satisfies the requirements for Clean Fill, then the Project Engineer will issue a letter of acceptance to the generator.

A) Due Diligence Screening

All fill sources that are considered for acceptance at the Facility as Clean Fill will be subject to a due diligence screening process. Paramount to the screening process will be the collection of source-specific data from the generator. To prompt the proper due diligence oriented questions to produce the desired data, the generator will be required to complete an application (see **Exhibit 9, TRC/Impact Environmental Source Generator Application**), and sign as to the accuracy of the statements made therein. Additionally, the generator will be required to complete a Certification of Origin of Clean Fill Form (Form FP-001 from the PADEP Management of Clean Fill Policy) with regard to its reuse as a coproduct.

The screening process will involve the review of the application and the Certification of Origin or Clean Fill Form and confirmation research work by the Project Engineer. If the answers to any of the questions or any of the follow-up research reveals data that would exclude a source from being considered Clean Fill, the source will be denied access into the Facility.

B) Physical Testing

Where necessary, physical testing will be performed to insure that a fill source meet the requirements for Facility operations. Sampling and analysis for physical parameters will be performed at a frequency of one composite per 5,000 cubic yards. The analysis will be performed in accordance with ASTM Method D-421/422 for gradation.

The results of the test analyses of the material will be reviewed by the Project Engineer. With respect to the physical analysis, the Project Engineer will compare the gradation of the material to the requirements provided by TRC for engineered fill for attaining proper slope stabilization and compaction. Because the operations are dynamic, these requirements are subject to change at the discretion of TRC.

C) Chemical Testing

Chemical testing of the material will be performed to insure that it meets the requirements for Clean Fill. Sampling of the material will be performed by the Project Manager, or his designated agent, as prescribed in the PADEP Management of Fill Policy, or in accordance with a statistically sound sampling plan to insure the representativeness of the data. Analytical testing of the samples must be performed by PADEP accredited laboratories. The PADEP suggested test methods and sampling frequencies are presented in the table below.

Test Parameters	Test Methods	Per 1,000 CY
Volatiles	USEPA 8260	1 of 4 Grabs
Semivolatiles	USEPA 8270	Composite from 4 Grabs
Metals	USEPA 6010	Composite from 4 Grabs
PCBs/Pest.	USEPA 8051	Composite from 4 Grabs

With respect to the chemical analysis, the Project Engineer will compare the concentrations of each reported target analyte versus the corresponding analyte-specific threshold value presented in the PADEP Management of Fill Policy, Tables FP-1a and FP-1b. In addition, the Project Engineer may use 95% Upper Confidence Limit (UCL) of the arithmetic mean to determine whether a material meets the appropriate concentration limits for use as Clean Fill. The calculated 95% UCL of the arithmetic mean must be below the appropriate concentration limit for Clean Fill. The minimum number of samples and the application of the 95% UCL of the arithmetic mean shall be in compliance with the PADEP Management of Fill Policy. The calculation of 95% UCL will be performed using the standard calculations specified in the spreadsheet provided by PADEP (**Exhibit 10, Example Microsoft Excel Spreadsheet**)

In some cases the Project Engineer may not have enough data for a direct analyte-specific correlation to determine its classification as Clean Fill. In such cases the Project Engineer may, if the quality control of the sampling and analysis is to a satisfactory level and the results allow for a proper characterization of its chemical nature, make a determination that a material classifies as Clean Fill.

5 Beneficial Use / Mine Reclamation Activities

Best management practices will be implemented to affirm quality control engineering determinations, and to minimize uncontrolled dispersion of the Clean Fill during all aspects of its storage and handling in connection with its beneficial use as a coproduct and/or engineered fill for mine reclamation or other engineering fill applications. Foremost of the best management practices will be to provide appropriate accountability of the Clean Fill through the use of engineering and administrative controls.

A) Engineering Controls

Inspection of Incoming Clean Fill

All incoming loads of Clean Fill will be visually inspected while on the transport vehicles and/or after it has been unloaded from the vehicle by designated TRC safety personnel, herein referenced as the TRC safety team. Clean Fill that exhibit nuisance odor or chemical staining, or that contain visible volumes of delirious debris (i.e. municipal solid waste, large pieces of wood, concrete pieces with a measurement in excess of 12") will be sequestered, thus prompting the initiation of the contingency measures presented in Section 6 below.

If it is suspected that the material within the truck has been altered, replaced or added to in any way, the applicable contingency plan measures will be followed.

When deemed appropriate, a member of the TRC safety team will use a real-time, organic vapor analyzer to monitor the concentration of VOCs in the air around stockpiles of incoming loads and in the work areas to determine if conditions warrant initiation of the contingency measures.

If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or truck bed exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

If total organic vapor levels at the downwind perimeter of the work area or truck bed persist at levels in excess of 5 ppm over background all activities will stop and the contingency measures will be initiated.

At a minimum, where monitoring equipment is used, the following information will be logged:

- Instrument type and detection range
- Control settings
- Reading locations
- Atmospheric conditions
- Calibration Records

Fugitive Particulate (dust)

Where deemed necessary, airborne fugitive particulate emissions at the Facility at the nearest downwind property line will be measured by the TRC safety team on a continuous basis during waste handling activities. The measurements will be made using a portable particulate monitoring device manufactured by the Casella Corporation. The monitoring device is capable of detecting airborne particulate (PM-10) at concentrations ranging from 1 to 1000 micrograms per cubic meter (ug/m³). Detected concentrations are logged within the instrument memory and can be retrieved using Microsoft Windows-based software provided by the manufacturer. Retrieved data can be imported into standard PC-based spreadsheet and database software for analysis and report presentation.

If during handling of Clean Fill the total downwind PM-10 particulate level is 150 micrograms per cubic meter (ug/m³) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then the handling activities must immediately stop, and the dust suppression techniques presented herein must be employed. Activities cannot resume until the mitigating measures result in a net downwind PM-10 particulate concentration below 150 ug/m³.

If, after implementation of dust suppression techniques, downwind PM - 10 particulate levels are greater than 150 ug/m³ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 ug/m³ of the upwind level and in preventing visible dust migration.

At a minimum, where the particulate monitoring device is used, the following information will be logged:

- Instrument type and detection range
- Control settings
- Atmospheric conditions
- Calibration Records

Fugitive dust suppression measures and controls will consist of the following:

- A strict facility-wide speed limit will be set at 15 miles per hour.
- Where necessary, Clean Fill will be wetted using potable water where it is loaded or unloaded from or to a transport vehicle.
- Stockpiles will be covered with plastic polyethylene sheeting during periods of inactivity.
- Excavation and handling activities will be halted where winds exceed 40 miles per hour.
- Where possible, unloading of Clean Fill will be performed within the central portions of the Facility as to provide maximum distance to the property lines.
- Clean Fill handled on the site will be covered while being transported within trucks.

Stormwater

To prevent excessive stormwater runoff at the Facility, Clean Fill will not be unloaded at the Facility during periods of significant precipitation (>1 inch per hour). All stockpiles that will remain overnight will be surrounded with silt fences and other control measures, as needed, to prevent runoff of sediments from the Facility (**Exhibit 11, Fullerton Slag Bank NPDES Permit**).

B) Administrative Controls

The Facility is subject to random inspections by the TRC safety team and by PADEP personnel. During such inspections transportation information and samples of incoming and/or placed Clean Fill can be collected and submitted to a laboratory for quality control analysis.

Transportation Controls

Prior to the transportation of the Clean Fill, a Transportation and Disposal Notification for each project will be sent out to all personnel involved from the Project Engineer or his designated agent in email format. When appropriate, the notification email will contain the following information: Impact project number, fill source site address,

material type, receiving facility, trucking company, number of trucks and rounds scheduled, start time, managing company and a job type code assigned by Impact (**Exhibit 12, Sample Transportation and Disposal Notification**).

All inbound transportation vehicles allowed to access the Facility will be covered by an insurance policy with coverage sufficient to cover the costs to execute the measures specified within the contingency plan for a loaded vehicle accident.

Trucks scheduled to deliver Clean Fill to the Facility will be given a transport charter to act as a transportation manifest. The charters are printed on sequentially numbered five-part carbon-less forms that are gold, white, yellow, pink and blue (**Exhibit 13, Transportation Charter**). The driver of each truck will complete "Section 1" of each charter before it departs from the residual waste source site. "Section 2" will be fully completed by a representative of the Generator before exiting the site. "Section 3" of the charter will be completed at the Facility by a representative of the Facility following inspection, weighing and tipping. The Generator will retain one part (blue) of the form prior to the truck leaving. The transporter will retain gold and pink part of the form and the Facility will retain the remaining.

The remaining executed parts of the charter will be paired to a numbered two-part weight receipt from a certified scale located at the Facility. TRC will retain a duplicate of the weight ticket for reconciliation. The Generator will receive the yellow part of the charter and the second part of the weight ticket.

Impact Environmental will retain the pink part of the charter and a photocopy of the weight ticket. TRC will retain the blue part of the charter. These documents will be made available for the PADEP for reconciliation.

The charters of all trucks arriving from the Facility will be reviewed at the weigh scale prior to any other activities (i.e. inspection or tipping). If the period of time in which the truck arrived at the facility is greater than four hours from when it was documented on the charter as having left the Clean Fill source site, the truck will not be accepted and the contingency plan will be enacted. If after enactment of the contingency plan it is determined that the vehicle load can be accepted at the facility, it will be inspected.

All rejected loads of any materials arriving at the Facility will be documented in a "Rejection Log".

All outbound loads to the end use facility (e.g. the Quarry) can be transported under new manifests if requested for a specific project.

Transportation manifests and copies of other related documents are scanned and stored in electronic format at the Facility in a timely manner. These electronic copies can be provided during inspection if requested.

Vehicle weighing

All transportation vehicles will be weighed by a certified scale prior to entering the Facility. All scale operators carry valid public weigh master licenses issued by the Bureau of Standard Weights & Measures of the Department of Agriculture. A list of scale operators and their weigh master licenses are attached (**Exhibit 14, Licensed Scale Operators**).

Scale tickets and copies of other related documents are scanned and stored in electronic format at the Facility in a timely manner. These electronic copies can be provided during inspection if requested.

C) Contingency Plan

A contingency plan has been designed to address conditions that could be encountered. The plan, which is presented below, identifies; 1) criteria for when the contingency plan is implemented; 2) alternate handling procedures for materials that cannot be classified as Clean Fill; 3) alternate disposal facilities for materials that cannot be classified as Clean Fill; and, 4) key contacts list (including regulatory agencies) in the event of a contingency/accident (vehicle or otherwise).

Analysis Review Failure Plan

Where sample analysis determines that the something stockpiled or placed at the Facility is not classifiable as Clean Fill pursuant to PADEP policy, the material will be managed as a Regulated Fill and disposed of at one of the alternate disposal facilities identified below. This contingency will prompt oral and written notification by the Project Manager to the individuals on the Key Contact List below.

Key Contact	Affiliation	Telephone Number
Mr. Richard Parrish	Impact Environmental	631-269-8800
Mr. Randy Krapf	Total Recycling Corp.	610-261-1700
Ms. Tracey McGurk	PADEP Northeast Regional Office	570-826-2511

The alternate disposal facilities have been identified as the Phase III Environmental LLC Former New Jersey Zinc West Plant Remediation Project, in Palmerton, PA. Regulated Waste moving to the alternate disposal facilities would be tracked and documented in the same manner as the Clean Fill that was moving into the Facility. However, new transportation charters would be completed as appropriate to the facility for each truck containing Regulated Waste.

Rejection at Facility – Temporal Disparity in Transport

Where the TRC safety team has determined that a vehicle has taken an excessive period of time to arrive at the Facility from the Clean Fill source location, the Project Engineer will be notified. In such a situation the Project Engineer will document such occurrence, and query the driver and transportation company owner for written justification of the temporal disparity. If the Project Engineer is satisfied with the justification, the material will be accepted at the Facility and inspected as required before tipping. If the Project Engineer is not satisfied with the explanation for the temporal disparity, the vehicle and the load will be returned to the Clean Fill source location.

Rejection at Facility – Inspection Rejection

Where the TRC safety team has determined that a vehicle load contains non-conforming and/or deleterious debris, or suspects that the material within the truck has been altered, replaced or added to in any way, the Project Engineer will be notified.

In such a situation the Project Engineer will document such occurrence, and the vehicle and the load will be returned to the Clean Fill source site where. If rejection occurs after tipping at the facility the truck will be re-loaded with the same material with a front-end loader that is always available at the Facility. If excess material exists due to over-cutting with the loader, the balance of the material will be placed on and covered with plastic sheeting until the responsible transportation company can arrange for its removal back to the Clean Fill source location.

This contingency will prompt oral and written notification by the Project Engineer to the individuals on the Key Contact List below.

Key Contact	Affiliation	Telephone Number
Mr. Richard Parrish	Impact Environmental	631-269-8800
Mr. Randy Krapf	Total Recycling Corp.	610-261-1700

List of Attachments

Exhibit 1, Facility Location Map

Exhibit 2, Facility Permits

Exhibit 3, Large Non-Coal Mine Operator's License

Exhibit 4, PADEP Management of Fill Policy

Exhibit 5, Coproduct Determination

Exhibit 6, General Permit WMGR082D003

Exhibit 7, TRC General Liability Insurance Certificate

Exhibit 8, Impact Environmental General, Pollution and E&O Insurance Certificate

Exhibit 9, TRC/Impact Environmental Source Generator Application

Exhibit 10, Example Microsoft Excel Spreadsheet

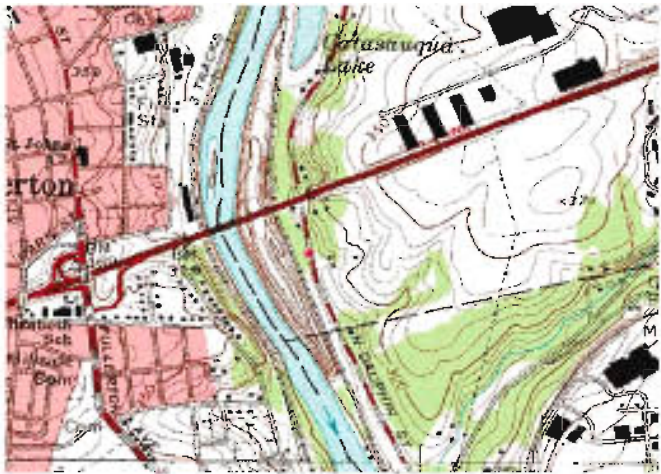
Exhibit 11, Fullerton Slag Bank NPDES Permit

Exhibit 12, Sample Transportation and Disposal Notification

Exhibit 13: Transportation Charter

Exhibit 14: Licensed Scale Operators

Exhibit 1: Facility Location Map



TITLE: Site Location Map			
1820 North Doupin Street, Allentown, PA			
DRAWN BY:	WF	PROJECT #	
CHECKED BY:	RP	EXHIBIT #	1
DATE:	6-3-2008		
SCALE:			

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (831) 269-8800 FAX (831) 269-1599

1580 BROADWAY, SUITE 1024
NEW YORK, NEW YORK 10036
TEL (212) 201-7805 FAX (212) 201-7806



Exhibit 2: Facility Permits



Pennsylvania Department of Environmental Protection

Rachel Carson State Office Building

P. O. Box 8472

Harrisburg, PA 17105-8472

June 11, 2009

Bureau of Waste Management

717-787-7381

Total Recycling Corporation
P.O. Box 90674
Allentown, PA 18109-0674

Dear Sirs:

On January 26, 2009, the Department received a coproduct determination from Impact Environmental on behalf of Total Recycling Corporation (TRC) for use of blast iron slag mined from the Fullerton Slag Bank in Allentown as construction. On May 13, 2009, a revised coproduct determination was received.

The Department believes Total Recycling Corporation has assembled sufficient information to support their claim that blast iron slag mined from the Fullerton Slag Bank in Allentown is a coproduct when used as construction material as subbase, asphalt base course, road flexible shoulder, and as base or foundation for a construction activity (engineering fill). The blast iron slag may be mixed with clean fill prior to use.

As with any previously disposed material, it is imperative that Total Recycling Corporation conduct ongoing sampling and testing of the blast iron slag to ensure its quality continues to satisfy the chemical characteristics and physical properties that were the basis of your coproduct determination. The ongoing testing and analysis as recommended by Impact Environmental in your coproduct determination should be adequate quality control for this purpose.

There are also recommendations in the coproduct determination for "Prohibited Applications" to protect "sensitive receptors." These include placement onto residential properties, into waterways, and in direct contact with agricultural crops or livestock. The Department finds these recommendations to not place the blast iron slag placement onto residential properties, into waterways, and in direct contact with agricultural crops or livestock acceptable.

It should be noted, however, that the coproduct determination requires the material to be either transferred in good faith as a commodity in trade or to be used by the manufacturer or producer on a regular basis. Total Recycling Corporation must ensure that this obligation is being met.



June 11, 2009

The proper use of any material is imperative for the protection of public health and the environment. When a coproduct is abandoned or disposed, the material will become a "waste" and must be managed accordingly.

Should you have any questions on this matter, you may reach me at the above number.

Sincerely,

A handwritten signature in cursive script that reads "Scott E. Walters".

Scott E. Walters
Environmental Chemist
General Permits/Beneficial Use Section
Division of Municipal and Residual Waste

cc: Richard Parrish – Impact Environmental



Pennsylvania Department of Environmental Protection

5 West Laurel Boulevard
Pottsville, PA 17901-2522
July 1, 2009

570-621-3118
FAX # 570-621-3110

Pottsville District Office

Total Recycling Corp.
P.O. Box 90674
Allentown, PA 18109

Re: Co-Product Determination Correction
SMP No. 7874SM1
Fullerton Slag Bank Operation
Hanover Township, Lehigh County

Ladies and Gentlemen:

The updated Co-Product Determination Report and subsequent approval by the Bureau of Waste Management has been incorporated into your surface mining permit. This approval also incorporates the prohibition or use of slag products on residential properties, into waterways, or in direct contact with agricultural crop and/or livestock in accordance with your cover letter and your Co-Product Determination Approval letter dated June 11, 2009. The list of prohibited applications shall also be posted at an on-site mine office to insure the limitations outlined in the Co-Product Determination are known to all potential customers and users of the material.

The enclosed information shall be considered an addendum to the original permit issued on August 21, 1974 and any subsequent revisions or corrections. This information is to be filed with your copy of the original permit and, in case of any conflicts with the original permit, shall take precedence over the original permit information.

If you have any questions about the permit, please contact me at the above number.

Sincerely,

Tiffany M. Folk
Geologic Specialist
District Mining Operations

cc: Nathan A. Houtz
Colleen B. Stutzman, SMCIS
Chris Kuba, SMCIS
Impact Environmental, Consultant
Municipality of Hanover Township
County of Lehigh
File
MS1-Totrec (7/09)

TMF:gk



Pennsylvania Department of Environmental Protection

5 West Laurel Boulevard
Pottsville, PA 17901-2522

August 14, 2008

570-621-3118
FAX # 570-621-3110

Pottsville District Office

NOTICE OF PERMIT CORRECTION

Total Recycling Corporation
d/b/a Total Recycling Resources
PO Box 90674
Allentown, PA 18109

Re. Surface Mining Permit No. 7874SM1
Fullerton Slag Bank Operation
Hanover Township, Lehigh County

Ladies & Gentlemen:

The above-referenced permit is hereby corrected per Application No. 7874SM1C received June 19, 2008. The purpose of this correction is to authorize to bring clean fill to the mining site for production of construction material (mixtures of clean fill with slag material). Enclosed, please find the revised Part B Special Conditions or requirements, and note new conditions 9 through 17 that apply to clean fill.

The enclosed information shall be considered an addendum to the original permit issued on August 21, 1974 and any subsequent revisions or corrections. This information is to be filed with your copy of the original permit and, in case of any conflicts with the original permit, shall take precedence over the original permit information.

Should you have any questions, please contact this office.

Sincerely,

Ignacy F. Nasilowski, P.G.
Licensed Professional Geologist
District Mining Operations

Enclosures

cc: Nathan A. Houtz
SMCIS, Colleen B. Stutzman
SMCI, Christian Kuba
Consultant, Michael Chiavone, c/o: Impact Environmental
Municipality of Hanover Twp.
County of Lehigh
File
MS1-Total (8/08)

IFN:gk

PART B
NONCOAL SURFACE MINING PERMIT NO. 7874SM1C
Total Recycling Corp. d/b/a Total Recycling Resources
Fullerton Slag Bank Operation
SPECIAL CONDITIONS OR REQUIREMENTS

The following special conditions or requirements are hereby incorporated into the permit and represent permit conditions.

1. There shall be no point-source discharge of water from the area authorized by this surface mining permit. In the event a point-source discharge occurs, applicable effluent limitations as specified in Part A will apply. In the event of a permanent point-source discharge, the permittee shall immediately contact the surface mine conservation inspector. A new NPDES permit application is to be submitted to the Pottsville District Office within seven days of the discharge.
2. There shall be **NO BLASTING** on any portion of the referenced permit by the permittee, contractor, subcontractor or contractor blaster until such time as the permittee obtains a certificate of insurance covering blasting activities and an approved blast plan from the Department which shall be filed with the Department and further receives written confirmation from the Department that an approved blast plan has been incorporated into this permit and that this condition has been deleted.
3. The permit area encompasses 22.7 acres of slag material located in Hanover Township, Lehigh County and is jointly owned by J.O. Krapf and Sons. The Department approves mining and reclamation plans as depicted on Map Drawing S-5653, Sheet 2 of 2, certified by Frederick C. Spott, P.E. and Cross-sections C-C', D-D', E-E', F-F', G-G', H-H' and K-K' dated May 31, 1990, and certified by Frederick C. Spott, P.E.
4. A previously issued road variance to affect area for slag removal within 100 feet of the outside right-of-way of U.S. Route 22 is continued as per PennDOT letter dated May 22, 1991. This variance continuance remains subject to the conditions outlined in the May 22, 1991 approval letter, namely:
 - a) The bearing capacity of bridge pier foundations and abutments shall not be endangered by removal of slag.
 - b) The variance area will be used as a slope between the bridge foundations and the excavated slag pile.
 - c) Slag material may not be removed from within the U.S. Route 22 right-of-way.
5. The permittee must maintain a minimum 70 foot setback from the U.S. Route 22 right-of-way to the top of the reclamation slope, as oriented parallel to the northern right-of-way line boundary of U.S. Route 22, as depicted on cross-section K-K', dated May 31, 1990, and certified by Frederick C. Spott, P.E.
6. The permittee is not authorized to exceed a 25 foot maximum vertical height while excavating slag bank material. Horizontal working benches must be at least 25 feet wide at all times.
7. The permittee is hereby granted a variance continuance to affect area within 100 feet of the Lehigh River for the purposes of excavating and removal of slag bank material. This variance remains subject to the following conditions:
 - a) No changes in the maps, plans, profiles and specifications shall be made except with the prior written consent of the Department.
 - b) The Operator shall notify the Surface Mine Conservation Inspector when work is commenced within the variance area and also upon removal of the containment berm depicted on the approved cross-sections.
 - c) Within thirty days after the completion of the work authorized in the approved plan, the operator shall file with the Department a statement certifying that the work has been performed in accordance with the approved plan dated June 28, 1990.

- d) The approved Erosion and Sedimentation Control Plan must be properly implemented and closely monitored to minimize erosion and prevent excessive sedimentation into the Lehigh River.
 - e) The Pennsylvania Fish Commission representatives shall be notified prior to beginning excavation within 50 feet of the Lehigh River.
8. All topsoil or subsoil encountered must be stockpiled and stabilized on-site for future use in reclamation of affected area(s).
 9. The permittee is authorized to temporarily store and process clean fill material that comes from contracted construction and demolition jobs by the permittee or its affiliates. A structural fill will be produced by mixing imported clean fill with the site's slag material. The material brought to the site shall be deemed as clean fill in accordance with present Department Technical Guidance Documents and Policies, and any future Technical Guidance Documents relating to the placement of clean fill at mine sites.
 10. No off-site material is to be retained and/or used for site reclamation without prior Departmental authorization.
 11. The maximum volume of clean fill and clean fill/slag mixture stockpiled on-site at any given time shall not exceed 60,000 cubic yards each.
 12. Off-site material shall be removed from the site within 90 days. The permittee shall maintain a log of all off-site material to be processed on this SMP including the origin of the material, date it was brought on-site for processing, and date the material was removed for the permit. The form FP-001 Certification of Origin of Clean Fill shall be completed for each source of material and made part of the log.
 13. The operator or his designee shall conduct the required sampling and testing in accordance with present Department Technical Guidance Documents and Policies, and any future Technical Guidance Documents relating to the placement of clean fill at mine sites. The results of the sampling and testing must be available to the Pottsville District Mining Office for review (and take out copy must be also available) at any time during inspection of the mine site during regular working hours.
 14. The mine operator must visually inspect and scan each load of proposed Clean Fill Material with an Organic Vapor Analyzer (OVA) or Photo Ionization Detector (PID) to assure that the materials contained in the loads are acceptable. If the visual inspection and/or OVA or PID testing reveals that the load does not qualify as Clean Fill Material (i.e. a positive OVA or PID reading is obtained or the load is contaminated) the mine operator is to refuse to accept the load. The rejected load is to be promptly removed from the active mine site. A record of the acceptance or rejection of a load, which includes the results of the OVA or PID testing, a description of unacceptable materials and in the case of rejection, the origin of the rejected load, shall be maintained at the mine site. Form 5600-FM-MR0145 or a Department approved form should be used for this purpose. The record must be maintained at the mine site for at least a year and held by the company for 5 years after the completion of the operation.
 15. Clean fill and the clean fill/slag mixture shall be stockpiled only in areas designated on the Operations Map dated June 3, 2008. This area shall be isolated from the permit by constructing 3 foot high berm around the entire perimeter.
 16. All runoff from clean fill and clean fill/slag mixture stockpile areas shall be contained on-site or directed to adequately designed, constructed and maintained erosion and sediment pollution controls.
 17. The Department reserves the right to suspend, rescind or modify this approval for clean fill temporary storage at this mine site in the event of changes to the Department regulations and policies and/or unforeseen circumstances which may cause pollution of the waters of the Commonwealth, including groundwater.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATION

DEP USE ONLY

Date Received

Permit Number

6/19/08
78745M1C

LARGE NONCOAL (INDUSTRIAL MINERALS) MINE PERMIT APPLICATION

Before completing this form, read the step-by-step instructions provided with this Permit Application Package.

SECTION A. APPLICANT INFORMATION

Applicant Name Total Recycling Corporation dba Total Recycling Resources			Applicant Type <input type="checkbox"/> Individual (INDIV) <input type="checkbox"/> PA Corporation (PACOR) <input checked="" type="checkbox"/> Non-PA Corporation (NPACO) <input type="checkbox"/> General Partnership (PARTG) <input type="checkbox"/> Limited Partnership (PARTL) <input type="checkbox"/> Municipality (MUNI) <input type="checkbox"/> Sole Proprietorship (SOLEP) <input type="checkbox"/> Other (OTHER)		
Mailing Address PO Box 90674 _____ (Street # and Name or P.O. Box) _____ (Address Line 2) Allentown PA -181090674 (City) (State) (Zip Code + Four)			Surface Mining Operator's License # 16848 <input type="checkbox"/> Pending		
6102611700 Ext. _____ (Telephone #) (FAX #)					
Applicant Contact Krapf Howard J (Last Name) (First Name) (MI) President (Title)					
Mailing Address PO Box 90674 _____ (Street # and Name or P.O. Box) Allentown PA -181090674 (City) (State) (Zip Code + Four)					
penmarkay@aol.com (610) 2611700 Ext. _____ (Email Address) (Telephone #) (FAX #)					

SECTION B. DESCRIPTION OF ACTIVITY

Application Type <input type="checkbox"/> New (NEW) <input checked="" type="checkbox"/> Revision/Modification (MOD) <input type="checkbox"/> Transfer (TRAN)			Permit Number <u>78745M1</u>
Type of Mining Activity(ies) <input checked="" type="checkbox"/> Surface Mining <input type="checkbox"/> Underground Mining (Includes Surface Effects of Underground Mining) <input type="checkbox"/> Incidental Coal Extraction <input type="checkbox"/> Other (specify) _____			

SECTION C. SITE INFORMATION

Operation/Site Name Fullerton Slag Bank	
Operation/Site Location	
County(ies) Lehigh County	Municipality(ies) Hanover Township
_____ _____	_____ _____

SECTION C. (continued)**Operation/Site Location**U.S.G.S. Map Name(s) Catasauqua, PA

Map Coordinates (center of proposed permit area)

Latitude 40° 37' 52" Longitude 75° 27' 48"Method of latitude/longitude collection USGSHorizontal accuracy (feet/inches) +/- 50 feet

Horizontal Reference Datum

☐ N.Am. 1927☒ N.Am. 1983☐ World Geodetic 1984Name or route number of nearest state/township road and a description of the location of the road that provides access to the operation Route 22 Overpass**Name(s) of receiving stream(s)/Chapter 93 Classification**Lehigh River / TSF - Trout Stocking**MSHA Mine I.D. No**0**MSHA Pit No.**N/A**Extent of Mining****Surface Mine**List Rock/Mineral to be Mined
(Include topsoil/overburden
to be sold)Acres of
Rock/Mineral RemovalBlending of Slag withNonePA Clean Fill fromoffsite sourcesTotal acres to be affected by
rock/mineral removalNone

Permit Area (total acres)

5 Acre**Remining**Total acres of abandoned mine
land (i.e., open pits, refuse/spoil
piles, surface area affected by
underground mining) to be reaffectedZero**Processing Facility**

Total acres to be affected

5 Acres**Wetlands**

Total acres of wetland to be affected by mining

Zero

Total acres of wetland to be replaced

Zero

SECTION D. PERMIT COORDINATION (or provide GIF form 8000-PM-IT0001)

1. Will this noncoal mining project involve the crushing and screening of noncoal minerals other than sand and gravel? ☐ Yes ☒ No
2. Will this noncoal mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations (crushing and/or screening) processing unconsolidated materials with a rated capacity of less than 150 tons/hour? ☐ Yes ☒ No
3. Will this noncoal mining project involve the construction, operation and/or modification of a portable mineral processing plant? ☐ Yes ☒ No
4. Will underground tanks for storage of fuel or chemicals be located within the proposed permit area? ☐ Yes ☒ No

SECTION E. APPLICATION FEE

- ☒ \$250.00 - Surface Mining or Underground Mining, Support Facilities (including NPDES when required)
- ☐ Water obstruction and encroachments (There is a fee under Chapter 105 for each water obstruction and encroachment)
- | Application Fee | Number | Type |
|--------------------------|--|---|
| <input type="checkbox"/> | _____ | Stream enclosure (\$350.00 each) |
| <input type="checkbox"/> | _____ | Channel change (\$300.00 each) |
| <input type="checkbox"/> | _____ | Bridges and other water obstructions in a stream or floodway with a drainage area of greater than 100 acres (\$200.00 each) |
| <input type="checkbox"/> | _____ | Encroachments (\$200.00 each) |
| <input type="checkbox"/> | _____ | Small projects as defined in 25 Pa Code Section 105.1 (\$100.00 each) |
| <input type="checkbox"/> | _____ - 0 - | General Permit for Temporary Road Crossings for Moving Surface Mining Equipment BMR-GP-101 (No fee is required) |
| <input type="checkbox"/> | _____ - 0 - | General Permit for Access Road Crossing BMR-GP-102 (No fee is required) |
| <input type="checkbox"/> | Dam (There is a fee for <u>each</u> dam) | |
| <input type="checkbox"/> | _____ | Class C dams as defined in 25 Pa Code Section 105.91. (\$1,500.00 each/No fee is required if the dam has a contributing drainage of 100 acres or less, the greatest depth of water at maximum storage elevation is 15 feet or less, and the maximum impounding capacity is 50 acre-feet or less). |

\$250.00

Total Application Fee

TOTAL RECYCLING RESOURCESP.O. BOX 90674
ALLENTOWN, PA 18109

127

Date 6/6/0855-695/312
64Pay to the Order of Commonwealth of Penna. \$ 250.00Two hundred fifty and 00/100 Dollars**Susquehanna**

Patriot Bank

For Permit Application fee

Ray L. Rupp

⑆031205455⑆ 20003131701⑆ 0127

SECTION F. CONSULTANT

Parrish
(Last Name)
President
(Title)

Richard
(First Name)
Impact Environmental
(Name of Consulting Firm)

(MI)

Mailing Address

170 Keyland Court

(Street # and Name or P.O. Box)

Bohemia
(City)
rich@impactenvironmental.com
(E-mail Address)

PA
(State)
(610) 269 - 8800
(Telephone #)

11716 -
(Zip Code + Four)
(631) 269 - 1599
(Fax #)

SECTION G. LAND USE INFORMATION (or provide GIF form 8000-PM-IT0001)

Have you submitted local municipal and county approval letters for this mining project with this permit application? ☐ Yes ☒ No
If "no," respond to the following additional questions.

1. Is there a municipal comprehensive plan(s)? ☐ Yes ☒ No
2. Is there a county comprehensive plan(s)? ☐ Yes ☒ No
3. Is there a multi-municipal or multi-county comprehensive plan? ☐ Yes ☒ No
4. Is the proposed project consistent with these plans? ☐ Yes ☒ No
If no plan(s) exist, answer "yes."
5. Is there a municipal zoning ordinance(s)? ☐ Yes ☒ No
6. Is there a joint municipal zoning ordinance? ☐ Yes ☒ No
7. Will the proposed project require a zoning approval (e.g. special exception, conditional approval, rezoning, variance)? ☐ Yes ☒ No
Note: If zoning approval has already been received, attach documentation.
8. Are any zoning ordinances that are applicable to this project currently the subject of any type of legal proceeding? ☐ Yes ☒ No
9. Will the project be located on a site that is being remediated under DEP's Land Recycling Program? ☐ Yes ☒ No
10. Will the project result in reclamation of abandoned mine lands through remining or as part of DEP's RECLAIM PA Program? ☐ Yes ☒ No
11. Will the project be located in an agricultural security area or an area protected under an agricultural conservation easement? ☐ Yes ☒ No
12. Will the project be located in a Keystone Opportunity Zone or Enterprise Development Area? ☐ Yes ☒ No
13. Will the project be located in a Designated Growth Area as defined by the Municipalities Planning Code? ☐ Yes ☒ No

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

SECTION H. ADDITIONAL RELATED INFORMATION

Will the proposed mining activities involve the disturbance of any primary agricultural lands? ☐ Yes ☒ No

If "yes," indicate the alternatives to this disturbance considered and the reasons they were not deemed feasible.

Name and Address of Public Office where a copy of this application is on file for public review.

Have arrangements been made to publish notice of this application in a local newspaper of general circulation in the locality of the proposed mining activities? ☐ Yes ☒ No

Name of newspaper where the public notice advertisement will appear: n/a

Attach a copy of the proposed public notice (see instructions for sample notice containing suggested wording and content).

SECTION H. (continued)

Provide the following (if applicable to this proposed operation):

Pre-Application No. n/aNotice of Intent to Explore No. n/aApplication Date: n/a

SECTION I. AFFIDAVIT

Commonwealth of Pennsylvania, County of LehighI, Howard J. Krapf being duly sworn, according to law, depose

and say that I (am the applicant) (am an officer or official of the applicant) (have the authority to make this application) and that the plans, reports and documents submitted as part of the application are true and correct to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (cross out inapplicable portions in parentheses)

Sworn and Subscribed to Before Me This

16 Day of 06 2008
(month) (year)

Kay Louise Krapf

Kay Louise Krapf
Notary Public

Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Kay Louise Krapf, Notary Public
Allen Township, Lehigh County
My Commission Expires June 10, 2010
Member, Pennsylvania Association of Notaries

Howard J. Krapf U.P.
Signature of Applicant or Responsible Official

Howard J KRAPF

Name (Typed)

P.O. Box 90674

Address

PERSON(S) AUTHORIZED BY APPLICANT TO PREPARE THIS APPLICATION

The application, plans, reports and specifications shall be certified by a registered professional engineer, registered professional geologist or registered professional land surveyor, as appropriate. Geologic and hydrogeologic information must be certified by a registered professional geologist. Impoundments requiring a 25 Pa Code Chapter 105 permit or having a storage capacity of equal to or greater than 20 acre-feet; and final contours/grading other than approximate original contour in conjunction with achieving an alternate postmining land use must be certified by a registered professional engineer. Impoundments which do not require a Chapter 105 permit or have a storage capacity of less than 20 acre-feet must be certified by a registered professional engineer or a registered professional land surveyor.

Registered Professional Engineer

I, Joel M. Rogers, PE do hereby certify to the best of my knowledge, information and belief, that the application, plans, specifications and reports have been prepared in accordance with accepted practice of engineering, are true and correct, and are in accordance with the Rules and Regulations of the Department of Environmental Protection. I further certify that it is within my professional expertise to verify the correctness of the information. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

Address

170 Keyland CourtBohemia, NY 11716

Telephone No.

631-269-8800

Registered Professional Geologist

I, _____ do hereby certify to the best of my knowledge, information and belief, that the application, plans, specifications and reports have been prepared in accordance with accepted practice of geology and hydrology, are true and correct, and are in accordance with the Rules and Regulations of the Department of Environmental Protection. I further certify that it is within my professional expertise to verify the correctness of the information. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

Address

Telephone No.

Seal

Registered Professional Land Surveyor

I, _____ do hereby certify to the best of my knowledge, information and belief, that the application, plans, specifications and reports have been prepared in accordance with accepted practice of land surveying and engineering land surveys, are true and correct, and are in accordance with the Rules and Regulations of the Department of Environmental Protection. I further certify that it is within my professional expertise to verify the correctness of the information. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

Address

Telephone No.

Seal

APPLICATION FORM CERTIFICATION

Complete the following if the application is submitted on forms other than the original Department Forms.

Registered Professional Engineer, Registered Professional Land Surveyor or Registered Professional Geologist

I, _____; being a registered professional
(Engineer's/Surveyor's/Geologist's Name - Print or Type)

engineer/registered professional land surveyor or registered professional geologist (circle as appropriate) do hereby certify that the forms used in the accompanying application have been reproduced under my supervision and are a facsimile of the forms prepared by the Department. I am aware that there are significant penalties for altering the content of the Department's forms, including the possibility of fine and imprisonment.

Signature

Date

Seal

PART A

NONCOAL SURFACE MINING PERMIT NO. 7874SM1T3
NPDES PERMIT NO. N/A

PERMITTEE NAME	<u>Total Recycling Corp. dba Total Recycling Resources</u>	ISSUANCE DATE	<u>N/A</u>
AND ADDRESS	<u>3715 Remaly Street</u>	RENEWAL DATE(S)	<u></u>
	<u>Bethlehem, PA 18018</u>	TRANSFER DATE(S)	<u></u>
	<u></u>	REISSUANCE DATE(S)	<u></u>
NAME OF OPERATION	<u>Fullerton Slag Bank</u>	EXPIRATION DATE	<u></u>
LOCATION OF OPERATION:			
MUNICIPALITY	<u>Hanover Township</u>	COUNTY	<u>Lehigh</u>

TYPE OF OPERATION

- ☐ Noncoal Surface Mine
- ☐ Surface Activity Connected With Underground Mining (Noncoal)
- ☐ Other

DISCHARGE TO (RECEIVING WATERS)

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- A. TYPE OF DISCHARGE FACILITY
 (M.D.T.) Mine Drainage Treatment Facilities
 (E&S) Erosion and Sediment Control Facilities
 (O.D.) Other discharge facilities

Outfall Numbers	Type of Discharge Facility (Key to A.)	Latitude	Longitude
<u>N/A</u>	<u></u>	<u>° ' "</u>	<u>° ' "</u>
<u></u>	<u></u>	<u>° ' "</u>	<u>° ' "</u>
<u></u>	<u></u>	<u>° ' "</u>	<u>° ' "</u>
<u></u>	<u></u>	<u>° ' "</u>	<u>° ' "</u>
<u></u>	<u></u>	<u>° ' "</u>	<u>° ' "</u>

- B. The permittee is authorized to discharge during the period from N/A through N/A.
- C. Based on the hydrologic data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or revisions, the following effluent limitations and monitoring requirements apply to the above listed outfall numbers.

DISCHARGE LIMITATIONS *MONITORING REQUIREMENTS

Type of Discharge Facility	Discharge Parameter	Average Monthly	Maximum Daily	Instantaneous Maximum	Measurement Frequency	Sample Type
E & S	Total Suspended Solids (or Total Settleable Solids as in Part A.1.D.1 below)	35.0	70.0	90.0	Monthly	Grab
M.D.T. or O.D.	Total Suspended Solids	35.0	70.0	90.0	Monthly	Grab
	Average Discharge Rate	--- MGD	---	---	Daily	Measured Flow

Note: The discharge limitations designated above for M.D.T. or O.D. facilities shall apply to all NPDES Point-Source discharges of groundwater or other discharges that are subject to mechanical control (i.e. pumping) at any point prior to the discharge.

pH not less than 6.0 standard units nor greater than 9.0 standard units at all times.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

*Unless otherwise indicated, discharge limitations are concentrations expressed in mg/l, and the total (dissolved plus suspended fraction) is applicable for each parameter.

Samples taken in compliance with the monitoring requirements specified above shall be taken during a discharge at the following location(s):

At all major erosion and sediment pollution control facilities, whether NPDES point-source discharges as listed above or non-point-source discharges and all other NPDES point-source discharges (if any).

- D. Any discharge of water, whether listed under Part A, Section 1.A. or not, from areas within this surface mining permit disturbed by surface mining and reclamation operations must meet the Discharge Limitations listed in Part A, Section 1.C. except as described below.
1. Discharges of surface runoff (not subject to mechanical control), from major erosion and sediment pollution controls (i.e. sediment basins), that are a result of a precipitation event and occur within 24 hours of said precipitation event shall not be subject to the total suspended solids limitations listed in Part A, Section 1.C. above. Discharges described by this condition shall meet a maximum total settleable solids limit of 0.5 ml/l.
 2. Other discharges of surface runoff from minor erosion and sediment pollution controls (sheet flow from minor areas, outcrops, berms, etc.) shall meet the Department's standards for temporary control of sediment and timely stabilization of disturbed areas (Best Management Practices).
 3. Any discharges resulting from a precipitation event exceeding the expected 10-year, 24-hour precipitation shall not be subject to the limitations of Part A, Section 1.C.

II. MANDATED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT CONDITIONS AND REQUIREMENTS

1. CONDITIONS RELATING TO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM REGULATIONS

The following permit conditions implement mandatory federal National Pollutant Discharge Elimination System (NPDES) requirements of 40 C.F.R. Part 122 and also the mandatory state requirements of 25 Pa. Code §77.522, 92.2a(a), and 92.31(a)(7).

2. DEFINITIONS

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. 122.41(m)(1)(i)
- b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. 122.41(m)(1)(ii)
- c. "Average monthly" discharge limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. 122.2
- d. "Maximum daily" discharge limitation means the highest allowable "daily discharge." 122.2
- e. "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. 122.2
- f. "Average" refers to the use of an arithmetic mean, unless otherwise specified in this permit. 122.41(i)(4)(iii)
- g. "Instantaneous Maximum" means the level not to be exceeded at any time in any grab sample.
- h. "Composite Sample" means a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval (for constant volume samples) is proportional to the flow rates, over the time period used to produce the composite.

The maximum time period between individual samples shall not exceed two hours, except that for wastes of a uniform nature the samples may be collected on a frequency of at least twice per working shift and shall be equally spaced over a 24-hour period (or over the operating day if flows are of a shorter duration).
- i. "Grab Sample" means an individual sample collected at a randomly-selected time over a period not to exceed 15 minutes.
- j. "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

- k. "At Outfall XXX" means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line XXX, or where otherwise specified.
- l. "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters, and batch discharge volumes.
- m. "Toxic Pollutant" means any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act. 122.2
- n. "Hazardous Substance" means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. 122.2

3. SELF-MONITORING, REPORTING, AND RECORDS KEEPING

a. Representative Sampling

- (1) Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. 122.41(i)(1)

- (2) Records Retention 122.41(i)(2)

All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years. The three-year period shall be extended as requested by the Department or the EPA Regional Administrator.

- (3) Recording of Results 122.41(i)(3)

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- (i) The exact place, date, and time of sampling or measurements;
- (ii) The person(s) who performed the sampling or measurements;
- (iii) The date(s) the analyses were performed;
- (iv) The person(s) who performed the analyses;
- (v) The analytical techniques or methods used; and the associated detection level; and
- (vi) The results of such analyses.

- (4) Test Procedures 122.41(i)(4)

Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those contained in 40 CFR Part 136, or alternate test procedures approved pursuant to that part.

b. Reporting of Monitoring Results

- (1) Monitoring results obtained each month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR). 122.41(i)(4)(i)

The DMR shall be submitted quarterly within 28 days after the end of the quarter to the appropriate Department District Mining Office. 122.41(i)(4)

- (2) The completed DMR form shall be signed and certified either by the following applicable person (as defined in 40 CFR 122.22(a)) or by that person's duly authorized representative (as defined in 40 CFR 122.22(b)):

- for a Corporation - by a responsible corporate officer;
- for a Partnership or Sole Proprietorship - by a general partner or the proprietor, respectively;
- for a Municipality, State, Federal, or other public agency - by a principle executive officer or ranking elected official.

Written notification of delegation of DMR signatory authority must be submitted to the Department. 122.41(k)

- (3) If the permittee monitors any pollutant, using analytical methods described in B.3.a(4) above, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. 122.41(l)(4)(ii)

c. Non-Compliance Reporting

- (1) 24-Hour Reporting - The permittee shall orally report to the Department within 24 hours of becoming aware of the following:

- (a) Actual or anticipated non-compliance with any term or condition of this permit which may endanger health or the environment. 122.41(l)(6)(i)

- (b) Actual or anticipated non-compliance with any "maximum daily" discharge limitation which is identified in Part A of this permit as being either: 122.41(l)(6)(ii)(A), 122.41(l)(6)(ii)(C)

(i) A toxic pollutant effluent standard established by EPA pursuant to Section 307(a) of the Clean Water Act,

(ii) A toxic or hazardous pollutant which, if not adequately treated, could constitute a threat to human health, welfare, or the environment, or

(iii) Any pollutant identified as the method to control a toxic pollutant or hazardous substance (i.e., indicator pollutant).

- (c) Any unanticipated bypass which exceeds any effluent limitations in the permit. 122.41(l)(6)(ii)(A), 122.41(m)(3)(ii)

Where the permittee orally reports this information within the above mentioned 24-hour time period, a written submission outlining the above information must be submitted to the Department within 5 days of becoming aware of such a condition, unless this requirement is waived by the Department upon receipt of the oral report. 122.41(l)(6)(i) and (iii)

- (2) Anticipated Non-Compliance Reporting

- (a) The permittee shall give advance notice to the Department of any planned changes to the permitted activity or facility which may result in non-compliance with permit requirements. 122.41(l)(2)

- (b) Where the permittee knows in advance of the need for a bypass which will exceed effluent limitations, it shall submit prior notice to the Department at least 10 days, if possible, before the date of the bypass. 122.41(m)(3)(i)

- (3) The permittee shall report all other instances of non-compliance which are not reported above, at the time of DMR submission. 122.41(l)(7)
- (4) All of the reports and notifications required above shall contain the following information: 122.41(l)(6)
 - (a) A description of the discharge and cause of non-compliance;
 - (b) The period of non-compliance, including exact dates and times and/or the anticipated time when the discharge will return to compliance; and
 - (c) Steps being taken to reduce, eliminate, and prevent recurrence of the non-complying discharge.
- d. Specific Toxic Substance Notification Levels - The permittee shall notify the Department as soon as it knows or has reason to believe the following:
 - (1) That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels": 122.42(a)(1)
 - (a) One hundred micrograms per liter;
 - (b) Two hundred micrograms per liter for acrolein and acrylonitrile;
 - (c) Five hundred micrograms per liter for 2, 4-dinitrophenol and 2-methyl -4, 6-dinitrophenol;
 - (d) One milligram per liter for antimony;
 - (e) Five (5) times the maximum concentration value reported for that pollutant in the permit application;
 - (f) Any other notification level established by the Department.
 - (2) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels". 122.42(a)(2)
 - (a) Five hundred micrograms per liter;
 - (b) One milligram per liter for antimony;
 - (c) Ten (10) times the maximum concentration value reported for that pollutant in the permit application;
 - (d) Any other notification level established by the Department.

4. MANAGEMENT REQUIREMENTS

a. Compliance Schedules 122.47(a), 122.41(l)(5)

- (1) Where applicable, the permittee will comply with the schedule identified in this permit relative to NPDES discharge requirements.
 - (2) The permittee shall submit reports of compliance or non-compliance with, or progress reports as applicable, any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. 122.47(a)(4)
-

b. Permit Modification, Termination, or Revocation and Reissuance

- (1) This permit may be modified, terminated, or revoked and reissued during its term for any of the causes specified in 25 Pa. Code, Chapter 92. 122.41(f)
- (2) The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition. 122.41(f)
- (3) The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. 122.41(a)(1)

c. Duty to Provide Information

- (1) The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. 122.41(h)
- (2) The permittee shall furnish to the Department, upon request, copies of records required to be kept by this permit. 122.41(h)
- (3) Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information to the Department. 122.41(l)(8)
- (4) The permittee shall give advance notice to the Department of any planned physical alterations or additions to the permitted facility.

Such notice is required when:

- (i) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source, or
- (ii) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit, or are not subject to the toxic substance notification requirements of Part B.3.d.(1) above. 122.41(l)(1)

d. Facilities Operation

The permittee shall at all times maintain in good working order and properly operate and maintain all facilities and systems which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems which are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. 122.41(e)

e. Adverse Impact

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. 122.41(d)

f. Bypassing

- (1) Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be violated, but only if the bypass is essential for maintenance to assure efficient operation. This type of bypassing is not subject to the reporting and notification requirements of Part B.3.c above. 122.41(m)(2)
- (2) Other Bypassing - In all other situations bypassing is prohibited unless all of the following conditions are met: 122.41(m)(4)(i)
 - (a) A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage"; 122.41(m)(4)(i)(A)
 - (b) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed (in the exercise of reasonable engineering judgment) to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; 122.41(m)(4)(i)(B)
 - (c) The permittee submitted the necessary reports required under Part B.3.c above. 122.41(m)(4)(i)(C)
- (3) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above. 122.41(m)(4)(ii)

5. **PENALTIES AND LIABILITY**

a. Duty to Comply 122.41(a), (a)(2), (a)(3)

Failure to comply with the terms or conditions of this NPDES permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

- (1) The Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than 2 years, or both. Any person who knowingly violates such sections, or such conditions or limitations, is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318,

or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the Imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- (2) Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.

b. Falsifying Information

- (1) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both. 122.41(i)(5)
- (2) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both. 122.41(k)(2)

c. Enforcement Proceedings

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. 122.41(c)

6. **OTHER RESPONSIBILITIES**

a. Right of Entry 122.41(i)

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law and 25 Pa. Code, Chapter 92, and 40 C.F.R. 122, the permittee shall allow the head of the Department, the EPA Regional Administrator, and/or their authorized representatives, upon the presentation of credentials and other documents as may be required by law:

- (1) To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; 122.41(i)(1)
- (2) To have access to and copy at reasonable times any records that must be kept under the conditions of this permit; 122.41(i)(2)
- (3) To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; 122.41(i)(3)
- (4) To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location. 122.41(i)(4)

b. Transfer of Ownership or Control

NPDES discharge permit requirements may not be transferred unless approved by the Department as a permit modification or revocation and reissuance. 122.61(a), 122.41(i)(3)

c. Property Rights

The issuance of this NPDES permit does not convey any property rights of any sort, or any exclusive privilege. 122.41(g)

d. Renewal of NPDES Permits

Application for renewal of this NPDES permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date). 122.41(b)

PART C

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATIONNONCOAL
AUTHORIZATION TO MINENumber 16848-7874SM1-01under issued SMP Number 7874SM1T3

PERMITTEE NAME	<u>Total Recycling Corp. dba Total Recycling Resources</u>	ISSUANCE DATE	<u>April 3, 2006</u>
AND ADDRESS	<u>3715 Remaly Street</u>	MUNICIPALITY	<u>Hanover Township</u>
	<u>Bethlehem, PA 18018</u>	COUNTY	<u>Lehigh</u>
NAME OF OPERATION	<u>Fullerton Slag Bank</u>		

TYPE OF OPERATION

- ☒ Noncoal Surface Mine
- ☐ Surface Activity Connected with Underground Mining (Noncoal)
- ☐ Other _____

- A. Permittee is hereby authorized to conduct noncoal mining activities on lands of J.O. Krapf & Sons situated in Hanover Township, Lehigh County. Surface owners' consent is attested to by inclusion of a properly executed Consent of Landowner form submitted in support of this approval.
- B. Surface noncoal mining activities are limited to the area designated as BI #01 & #02 in the map submitted in support of the request for this Mining Authorization, which covers 22.7 acres (9.2 ha) acres.
- C. The maximum allowed depth of slag excavation shall not extend below the elevation of pit floor which is 250' MSL (76.3 m). The maximum length of highwall allowed is N/A - slag bank removal.
- D. Bond Description
- ☐ Original Bond ☒ Transfer Bond ☐ Additional Bond
- ☐ Surety Bond No. _____ in Amount of _____ with _____ as surety.
- ☒ Collateral Bond dated January 6, 2006 in Amount of \$22,700 supported by CD #36692.
- ☐ PILB
- ☐ Additional Remarks:
- E. The approved erosion and sediment control facility related to the area to be mined in accordance with this authorization must be constructed in accordance with the approved plan. These facilities shall be certified to the Department by a qualified registered professional engineer (where required by Chapter 105) or by a qualified registered land surveyor prior to the commencement of other noncoal mining activities in this area.
- F. The attached sheet contains two (2) additional special conditions or requirements relating to this authorization.

cc: Licensing & Bonding
Chris Kuba, SMCI
File

By: Roger J. Hornberger
Title: District Mining Manager
For the Department of Environmental Protection
7874SM1

ADDITIONAL SPECIAL CONDITIONS AND/OR REQUIREMENTS:

1. The outer limits of the area approved by this Authorization to Mine shall be field marked prior to commencement of surface mining activities and shall remain marked for the duration of surface mining and reclamation activities.
2. Part B - Special Condition are also applicable to this Authorization to Mine.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
DIVISION OF MINE DRAINAGE CONTROL AND RECLAMATION

SUPPLEMENTAL "F-1"

MINE RECLAMATION PROPOSAL

- (a) State the highest and best use of the affected land prior to commencement of surface mining

At the present time the land is of little use because of the steep slopes, access to the river is cut off.

- (b) State the proposed use following reclamation.

Possible recreation area, re-saleable land

- (c) Describe your plan for restoration of the operation. Include a detailed timetable and estimated cost of the major reclamation steps.

After completion of the slag removal, the area will be seeded with a suitable vegetation. See attached Erosion & Sedimentation Control Narrative which more fully describes the plan for restoration, also see reclamation plan.

- (d) Describe plan for revegetating the land affected. If this plan does not provide for planting on all or part of the area, describe in detail alternate procedures to prevent soil erosion and/or siltation.

The plan for revegetating the affected area is described in the Erosion and Sedimentation Narrative--All areas will be planted.

- (e) Describe method of conserving and handling topsoil and/or subsoil.

There is no topsoil or subsoil present at the site.

LEHIGH COUNTY
CONSERVATION DIST.

2/2002

SECTION C. (continued)

Operation/Site Location

U.S.G.S. Map Name(s) Catasauqua, PA 7 1/2'

Map Coordinates (center of proposed permit area)

Latitude 40° 37' 55" Longitude 75° 27' 58"

Name or route number of nearest state/township road and a description of the location of the road that provides access to the operation North Dauphin St.

Name(s) of receiving stream(s)/Chapter 93 Classification

Lehigh River (No Point Source Discharge)

MSHA Mine I.D. No

0

MSHA Pit No.

N/A

Extent of Mining

Surface Mine

List Rock/Mineral to be Mined
(Include topsoil/overburden
to be sold)

Acres of
Rock/Mineral Removal

Slag 22.7

Total acres to be affected by
rock/mineral removal 22.7

Permit Area (total acres) 22.7

Remining

Total acres of abandoned mine
land (i.e., open pits, refuse/spoil
piles, surface area affected by
underground mining) to be reaffected 0

Processing Facility

Total acres to be affected 0

Wetlands

Total acres of wetland to be affected by mining 0

Total acres of wetland to be replaced 0

Lehigh County
Conservation Dist.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATION

APPL NO. (Department Use Only)

CONTRACTUAL CONSENT OF LANDOWNER
(NONCOAL/INDUSTRIAL MINERALS)

I (We), the undersigned, being the owner(s) of 25.5 acres of land
located in Hanover Township Lehigh County, as described
in the deed(s) recorded in the Recorder of Deeds Office Book(s) and page(s) Document ID# 7243724
and shown by crosshatched lines on the map attached hereto which is signed in the original by the landowner upon which
Total Recycling Corp.
(Name of Mining Operator)

proposes to engage in surface mining activities for which application for permit will be made to the Department of Environmental Protection and of which application this consent will be made a part, DO HEREBY ACKNOWLEDGE THAT THE MINING OPERATOR HAS THE RIGHT TO ENTER UPON AND USE THE LAND FOR THE PURPOSES OF CONDUCTING SURFACE MINING ACTIVITIES. Furthermore, (I) (We), the undersigned, do hereby irrevocably grant to the mining operator, his heirs, executors, administrators, successors, transferees, and assigns and to the Commonwealth of Pennsylvania, the right to enter upon the aforesaid land before beginning the mining activity(ies), and for a period of five (5) years after the termination, completion or abandonment of the mining activity(ies) for the purposes of inspecting, studying, backfilling, planting and reclaiming the land and abating pollution in accordance with the provisions of the Noncoal Surface Mining Conservation and Reclamation Act and The Clean Streams, as amended, rules and regulations promulgated thereunder, and the provisions of permit(s) issued to the Mining Operator. (I) (We) do hereby grant in addition to the Commonwealth, for the aforesaid period of time, a right of entry across any adjoining or contiguous lands owned by (us) (me) in order to have access to the land described herein. It is specifically agreed and understood that this contractual consent gives the Commonwealth the right to enter, inspect, study, backfill, plant and reclaim the land and abate pollution therefrom as a matter within the police power but does not obligate the Commonwealth to do so, and does not constitute any ownership interest by the Commonwealth in the aforesaid land.

This Consent shall not be construed to impair any contractual agreement between the Mine Operator and the landowner

(INSERT ADDITIONAL PROVISIONS OR CROSS OUT)

In witness whereof and intending to legally bind (myself) (ourselves), (my) (our) heirs, successors and assigns, (I) (we) have hereunto set (my) (our) hand(s) and seal this 5th day of July, 2005 (year)

J.O. Krapf + Sons

LANDOWNER

(Print Name)

By:

(Signature)

(Seal)

Randy A Krapf, Pres/Sec.
(Print Name)

By:

(Signature)

(Print Name)



Exhibit 3: Large Non-Coal Mine Operator's License



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING PROGRAMS

November 19, 2013

TOTAL RECYCLING CORP.
DBA TOTAL RECYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109-0674

Re: License No. 16848
Client ID No. 241842

Dear Applicant:

Enclosed is your Mine Operator's License. You must keep a copy of this license at the mine site and at your company office for review by the Mine Conservation Inspector upon request.

Based upon Pennsylvania's rules and regulations, we must issue licenses for the same period as the coverage specified by your insurance certificate. We will contact you at least 60 days before the expiration date to arrange for the submission of a license renewal application and insurance certificate.

Please contact our licensing unit at 717-787-5103 if you have any questions.

Sincerely,

Thomas Callaghan, P.G.
Director
Bureau of Mining Programs

Enclosure

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACTIVE AND ABANDONED MINE OPERATIONS

BUREAU OF MINING PROGRAMS



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Large Non Coal Mine Operator's License

MINING WITH CONSERVATION STANDS FOR PROGRESS

This is to certify that the following person has been duly licensed to engage in mining in the Commonwealth of Pennsylvania until the date of expiration, as shown below:

Name: TOTAL RECYCLING CORP
DBA TOTAL RECYCLING RESOURCES

License Number: 16848

Address: PO BOX 90674
ALLENTOWN PA 18109-0674

License Issued: 11/19/2013

License Expires: 11/30/2014

Any person who proceeds to conduct mining activities without a valid authorization or in violation of the terms of the authorization shall be guilty of a misdemeanor and subject to fine or imprisonment, as provided in the 'Noncoal Surface Mining Conservation and Reclamation Act.' This license may be suspended or revoked for failure to comply with the terms of the authorization, the applicable regulations or applicable laws. The terms of this authorization shall include: 1) Operator shall at all times comply with the 'The Clean Streams Law of Pennsylvania' and the 'Noncoal Surface Mining Conservation and Reclamation Act' and the rules and regulations, orders and permits issued under these acts. 2) Licensee shall not proceed to mine minerals by the surface mining method activities without a valid surface mining permit. 3) This certificate shall be displayed at the legal address of the licensee.

Director, Bureau of Mining Programs

Exhibit 4, PADEP Management of Fill Policy

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT**

DOCUMENT NUMBER: 258-2182-773

ANTICIPATED EFFECTIVE DATE: April 24, 2004

TITLE: Management of Fill

AUTHORITY: This document is established in accordance with the Act of July 7, 1980, as amended, 35 P.S. §§ 6018.101 *et seq.*, known as the Solid Waste Management Act (SWMA); the Act of June 22, 1937, as amended, 35 P.S. §§ 691.1 *et seq.*, known as the Clean Streams Law; the Act of April 9, 1929, Section 1917-A of the Administrative Code, 71 P.S. § 510-17; the Act of July 18, 1995, 35 P.S. §§ 6026.101 *et seq.*, known as the Land Recycling and Environmental Remediation Standards Act.

POLICY: This policy is designed to replace the Department's existing Clean Fill Policy dated February 29, 1996.

PURPOSE: This policy provides DEP's procedures for determining whether material is clean fill or regulated fill. Regulated fill may not be used unless a SWMA permit is secured by the individual or entity using the regulated fill.

APPLICABILITY: This policy shall be used to evaluate whether material qualifies as clean fill or regulated fill. This policy does not apply to mine land reclamation activities subject to a permit. Excavation, movement or reuse of fill material within a project area or right-of-way of a project is not an activity that requires a SWMA permit.

DISCLAIMER: The policies and procedures outlined in this guidance document are intended to supplement existing requirements. Nothing in the policies or procedures shall affect regulatory requirements. The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of the DEP to give the rules in these policies that weight or deference. This document establishes the framework within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy statement if circumstances warrant.

PAGE LENGTH: 4

LOCATION: Volume 6, Tab 40(b)

DEFINITIONS:

Act 2—The Land Recycling and Environmental Remediation Standards Act, Act of May 18, 1995 (P.L.4, No. 1995-2), 35 P.S. §§6026.101 *et seq.*

Clean fill— Uncontaminated, nonwater-soluble, nondecomposable inert solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such. (25 Pa. Code §§ 271.101 and 287.101) The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized.

Environmental due diligence—Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of ownership and use history of property, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits.

Historic fill—Material (excluding landfills, waste piles and impoundments) used to bring an area to grade prior to 1988 that is a conglomeration of soil and residuals, such as ashes from the residential burning of wood and coal, incinerator ash, coal ash, slag, dredged material and construction and demolition waste. The term does not include iron or steel slag that is separate from residuals if it meets the coproduct definition and the requirements of 25 Pa. Code § 287.8. The term does not include coal ash that is separate from residuals if it is beneficially used in accordance with 25 Pa. Code § 287.661- 287.666.

Regulated fill—Soil, rock, stone, dredged material, used asphalt, historic fill, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such that has been affected by a spill or release of a regulated substance and the concentrations of regulated substances exceed the values in Table FP-1a and b.

Regulated substance—The term shall include hazardous substances and contaminants regulated under the Hazardous Sites Cleanup Act, and substances covered by the Clean Streams Law, the Air Pollution Control Act, the Solid Waste Management Act, the Infectious and Chemotherapeutic Waste Law, and the Storage Tank and Spill Prevention Act.

Release—Spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing of a regulated substance into the environment in a manner not authorized by the Department of Environmental Protection. The term includes the abandonment or discarding of barrels, containers, vessels and other receptacles containing a regulated substance.

Uncontaminated material—Material unaffected by a spill or release of a regulated substance, or if affected by a spill or release, the concentrations of regulated substances are below the concentrations specified in Table FP-1a and b.

REFERENCES:

25 Pa. Code Chapters 287 to 299 (residual waste regulations)
25 Pa. Code Chapters 271 to 285 (municipal waste regulations)
Solid Waste Management Act, 35 P.S. §§ 6018.101 *et seq.*
Land Recycling and Environmental Remediation Standards Act, 35 P.S. §§ 6026.101 *et seq.*

TECHNICAL GUIDANCE:

FILL DETERMINATION

- 1) To determine whether fill is clean or regulated, a person must perform environmental due diligence.¹
 - a) If due diligence shows no evidence of a release of a regulated substance, the material may be managed as clean fill under this policy.
 - b) If due diligence shows evidence of a release, the material must be tested to determine if it qualifies as clean fill. Testing must be performed in accordance with Appendix A.
 - i) If testing reveals that the material contains concentrations of regulated substances that are below the residential limits in Table FP-1a and b, the material must be managed as clean fill.
 - ii) If testing reveals that the material contains concentrations of regulated substances that exceed the limits in Table FP-1a and b, the material must be managed as regulated fill.
- 2) A person may not blend or mix materials to become clean fill. Materials that contain regulated substances that are intentionally released may not be managed under this policy.

MANAGEMENT OF REGULATED FILL

- 1) Materials identified as regulated fill are waste and must be managed in accordance with the Department's municipal or residual waste regulations, whichever is applicable, based on 25 Pa. Code §§ 287.2 or 271.2. Regulated fill may be beneficially used under General Permit WMGR096 (proposed) if the materials and the proposed activities for the fill meet the conditions of that permit. A person may apply for an industry-wide beneficial use general permit for the beneficial use of regulated fill in lieu of this general permit.
- 2) Regulated fill may not be placed on a greenfield property not planned for development, or on a property currently in residential use or planned for residential use unless otherwise authorized.
- 3) Fill containing concentrations of regulated substances that exceed the values in Table GP-1 a and b may not be managed under the provisions of this policy or General Permit WMGR096, but must be otherwise managed in accordance with the provisions of the Department's municipal or residual waste regulations.
- 4) A general permit is not required for remediation activities undertaken entirely on an Act 2 site pursuant to the requirements of Section 902 of the Land Recycling and Environmental Remediation Standards Act. A general permit is also not required if regulated fill from an Act 2 site is used as construction material at a receiving site that is being remediated to attain an Act 2 standard as long as the procedural and substantive requirements of Act 2 are met. Regulated

¹ Analytical assessment, testing or sampling is only required if visual inspection or reviews of historic property use indicates evidence of a release of a regulated substance.

substances contained in the regulated fill must be incorporated into the notice of intent to remediate and the final report. Movement of regulated fill between Act 2 sites must be documented in both the sending and receiving sites' cleanup plans and final reports. Placement of the regulated fill may not cause the receiving site undergoing remediation to exceed the selected Act 2 standard.

MANAGEMENT OF CLEAN FILL

- 1) Use of material as clean fill does not require a permit under the Solid Waste Management Act and regulations, and it may be used in an unrestricted or unregulated manner under this Act and its regulations. The use of materials as clean fill is still regulated under other environmental laws and regulations. A person using materials as clean fill under the policy is still subject to and must comply with all applicable requirements governing the placement or use of material as clean fill, such as Chapter 102 (Erosion and Sediment Control) and Chapter 105 (Dam Safety and Waterway Management).
- 2) Any person placing clean fill which has been affected by a release of a regulated substance on a property must certify the origin of the fill material and results of analytical testing to qualify the material as clean fill on Form FP-001. Form FP-001 must be retained by the owner of the property receiving the fill.
- 3) Best management practices (BMP) must be followed prior to demolition activities to remove materials like lead-based paint surface, friable asbestos and hazardous materials such as mercury switches, PCB ballasts and fluorescent light bulbs from a building if the brick, block, or concrete is used as clean fill.
- 4) Clean fill may not contain any free liquids based on visual inspection, and shall not create public nuisances (for example objectionable odors) to users of the receiving property or adjacent properties.

Form FP-001
CERTIFICATION OF ORIGIN OF CLEAN FILL

I, the undersigned, certify that fill material that has been determined to be clean fill has been placed on the following property:

Property Name: _____
Current Owner of Property: _____
Property Address: _____

This fill material will be used solely for property improvement or construction purposes. Copies of the laboratory analyses that confirm that this material is clean fill are attached to this form.

Date: _____ Name: _____
Title: _____
Address: _____

Phone: _____

This form is to be maintained by the owner of the property receiving fill material. If a property received fill from multiple sources, a separate certification form is required for each source.

Appendix A

Sampling and Analyses for Regulated Material to be Used as Fill:

Sampling of regulated material proposed to be used as fill shall be done either by composite samples or by discrete samples. Sampling in either case shall be random and representative of the fill material being sampled. Sampling shall be in accordance with the most current version of the EPA RCRA Manual, SW-846 (*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response*).

(a) Sampling based on composite sampling procedures shall include the following:

(i) For volumes of material equal to or less than 125 cubic yards, a total of eight samples shall be collected and analyzed as follows:

(A) For analysis of all substances other than volatile organic compounds (VOCs), the samples shall be analyzed in two composites of four samples each, in accordance with the most current version of the USEPA Manual, SW-846 (*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response*).

(B) Two samples shall be selected from the 8 samples for analysis of VOCs. The samples shall be based on field screening of the eight samples to select those samples that are most likely to contain the highest concentrations of VOCs.

(C) Two grab samples shall be taken from the same areas in the material from which the two samples used for field screening of VOCs were taken, in accordance with Method 5035 from the most current version of the USEPA Manual, SW-846 (*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response*).

(ii) For volumes of material greater than 125 cubic yards and less than or equal to 3,000 cubic yards, a total of 12 samples shall be collected and analyzed as follows:

(A) For analysis of all substances other than VOCs, the samples shall be analyzed in three composites of four samples each.

(B) Three samples shall be selected from the 12 samples for analysis of VOCs. The samples shall be based on field screening of the 12 samples to select those samples that are most likely to contain the highest concentrations of VOCs.

(C) Three grab samples shall be taken from the same areas in the material from which the three samples used for field screening of VOCs were taken, in accordance with EPA, Method 5035, referenced in subparagraph (i)(C).

(iii) For each additional 3,000 cubic yards of material or part thereof over the initial 3,000 cubic yards, 12 additional samples shall be collected and analyzed as follows:

(A) For analysis of all substances other than VOCs, the samples shall be analyzed in three composites of four samples each.

(B) Three samples for analysis of VOCs shall be selected from the 12 samples for analysis of VOCs. The samples shall be based on field screening of the 12 samples to select those samples that are most likely to contain the highest concentrations of VOCs.

(C) Three grab samples shall be taken from the same areas in material from which the three samples used for field screening of VOCs were taken, in accordance with EPA Method 5035, referenced in subparagraph (i)(C).

(b) Sampling based on discrete sampling procedures shall include the following:

(i) For volumes of material equal to or less than 125 cubic yards, a minimum of eight samples shall be collected and analyzed. For volumes of material greater than 125 cubic yards and less than or equal to 3,000 cubic yards, a minimum of 12 samples shall be collected and analyzed. For each additional 3,000 cubic yards of material or part thereof over the initial 3,000 cubic yards, a minimum of 12 additional samples shall be collected and analyzed.

(ii) For VOCs analysis, grab sampling procedures shall be the procedures described in paragraph (a), for the equivalent volumes of material sampled.

(c) Analyses of results:

(1) For a composite sample taken in accordance with subsection (a), the measured numeric value for a parameter shall be less than or equal to the concentration limit listed in Table FP-1a or b for that parameter in order for the material to qualify as clean fill, or in Table GP-1a or b for that parameter in order for the fill material to qualify as regulated fill.

(2) For a grab sample, taken in accordance with subsection (a) and (b), the measured numeric value for a parameter shall be less than or equal to the concentration limit listed in Table FP-1a or b for that parameter in order for the material to qualify as clean fill, or in Table GP-1a or b for that parameter for the fill material to qualify as regulated fill.

(3) For discrete samples required in subsection-(b), the measured numeric values for a substance in 75% of the discrete samples shall be equal to or less than the concentration limit listed in Table FP-1a or b, or in Table GP-1a or b for that parameter with no single sample exceeding more than twice the concentration limit for a parameter.

(d) In lieu of subsection (c), a person may use 95% Upper Confidence Limit (UCL) of the arithmetic mean to determine whether a fill material meets the appropriate concentration limits for use as clean or regulated fill. The calculated 95% UCL of the arithmetic mean must be below the appropriate concentration limit for clean or regulated fill. Sampling shall be random and representative of the material being sampled. The minimum number of samples shall be determined in accordance with EPA approved methods on statistical analysis of environmental data, as identified in 25 PA. Code, §250.707(e)(relating to statistical tests). The application of the 95% UCL of the arithmetic mean shall comply with the following performance standards:

(1) The null hypotheses (H_0) shall be that the true fill arithmetic average concentration is at or above the regulated fill appropriate concentration limit, and the alternative hypothesis (H_a) shall be that the true fill arithmetic average concentration is below the regulated fill appropriate concentration limit.

(2) The underlying assumptions of the statistical method shall be met, such as data distribution.

(3) Compositing cannot be used for volatile organic compounds.

(4) The censoring level for each nondetect shall be the assigned value randomly generated that is between zero and the limit related to the PQL.

(5) Tests shall account for spatial variability, unless otherwise approved by the Department.

(6) Statistical testing shall be done individually for each parameter present in the fill.

(7) Where a fill has distinct physical, chemical or biological characteristics, or originates from different areas, the statistical testing shall be done separately.

(8) The following information shall be documented:

(i) A description of the original areas of the fill, and physical, chemical and biological characteristics of the fill.

(ii) A description of the underlying assumptions of the statistical method.

(iii) Documentation showing that the sample data set meets the underlying assumptions of the statistical method.

(iv) Documentation of input and output data for the statistical test, presented in tables or figured, or both, as appropriate.

(v) An interpretation and conclusion of the statistical test.

- (e) The Synthetic Precipitation Leaching Procedure (SPLP, per *Technical Guidance Manual*, 253-0300-100/ May 4, 2002 /Page II-26-27), is listed below:

The value for the SPLP is the concentration of a regulated substance in soil at the site that does not produce a leachate in which the concentration of the regulated substance exceeds the groundwater MSC. Since this test must be conducted on the actual site soil, no values for the SPLP could be published in the tables of MSCs in the regulations. The following procedure should be used to determine the alternative soil-to-groundwater value based upon the SPLP:

- During characterization, the remediator should obtain a minimum of ten samples from within the impacted soil area. The four samples with the highest total concentration of the regulated substance should be submitted for SPLP analysis. Samples obtained will be representative of the soil type and horizon impacted by the release of the regulated substance.
- Determine the lowest total concentration (TC) that generates a failing SPLP result. The alternative soil-to-groundwater standard will be the next lowest TC.
- If all samples result in a passing SPLP level, the alternative soil-to-groundwater standard will be the TC corresponding to the highest SPLP result. The remediator has the option of obtaining additional samples.
- If none of the samples generates a passing SPLP, the remediator can obtain additional samples and perform concurrent TC/SPLP analyses to satisfy the above requirements for establishing an alternative soil-to-groundwater standard.

Table FP-1a
Clean Fill Concentration Limits for Organics

PARAMETER	CASRN	Clean Fill
		Total Analysis
		mg/kg
ACENAPHTHENE	83-32-9	2700
ACENAPHTHYLENE	208-96-8	2500
ACEPHATE	30560-19-1	0.9
ACETALDEHYDE	75-07-0	0.23
ACETONE	67-64-1	41
ACETONITRILE	75-05-8	1.9
ACETOPHENONE	98-86-2	200
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3	0.069
ACROLEIN	10-702-8	0.00062
ACRYLAMIDE	79-06-1	0.00057
ACRYLIC ACID	79-10-7	0.051
ACRYLONITRILE	107-13-1	0.0087
ALACHLOR	15972-60-8	0.077
ALDICARB	116-06-3	0.12
ALDRIN	309-00-2	0.10
ALLYL ALCOHOL	107-18-6	0.58
AMINOBIIPHENYL, 4-	92-67-1	0.0012
AMITROLE	61-82-5	0.029
AMMONIA	7664-41-7	360
AMMONIUM SULPHAMATE	7773-06-0	24
ANILINE	62-53-3	0.16
ANTHRACENE	120-12-7	350
ATRAZINE	1912-24-9	0.13
BAYGON (PROPOXUR)	114-26-1	0.057
BENOMYL	17804-35-2	880.00
BENTAZON	25057-89-0	16
BENZENE	71-43-2	0.13
BENZIDINE	92-87-5	0.078
BENZO[A]ANTHRACENE	56-55-3	25
BENZO[A]PYRENE	50-32-8	2.5
BENZO[B]FLUORANTHENE	205-99-2	25
BENZO[GH]PERYLENE	191-24-2	180
BENZO[K]FLUORANTHENE	207-08-9	250
BENZOIC ACID	65-85-0	2900
BENZOTRICHLORIDE	98-07-7	0.012
BENZYL ALCOHOL	100-51-6	400
BENZYL CHLORIDE	100-44-7	0.051
BHC, ALPHA-	319-84-6	0.046
BHC, BETA-	319-85-7	0.22
BHC, DELTA-	319-86-8	11
BHC, GAMMA (LINDANE)	58-89-9	0.072
BIPHENYL, 1,1'-	92-52-4	790
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.0039
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	8.0
BIS(CHLOROMETHYL)ETHER	542-88-1	0.00001
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	130
BISPHENOL A	80-05-7	700
BROMACIL (BROMAX)	314-40-9	2
BROMOCHLOROMETHANE	74-97-5	1.6
BROMODICHLOROMETHANE	75-27-4	3.40
BROMOMETHANE	74-83-9	0.54
BROMOXYNIL	1689-84-5	63
BROMOXYNIL OCTANOATE	1689-99-2	360
BUTADIENE, 1,3-	106-99-0	0.0062
BUTYL ALCOHOL, N-	71-36-3	12.00
BUTYLATE	2008-41-5	51.0
BUTYLBENZENE, N-	104-51-8	950
BUTYLEBENZENE, SEC-	135-98-8	350
BUTYLEBENZENE, TERT-	98-06-6	270
BUTYLBENZYL PHTHALATE	85-68-7	10000
CAPTAN	133-06-2	12
CARBARYL	63-25-2	41
CARBAZOLE	86-74-8	21
CARBOFURAN	1563-66-2	0.87
CARBON DISULFIDE	75-15-0	160

Table FP-1a
Clean Fill Concentration Limits for Organics

PARAMETER	CASRN	Clean Fill
		Total Analysis
		mg/kg
CARBON TETRACHLORIDE	56-23-5	0.26
CARBOXIN	5234-68-4	53
CHLORAMBEN	133-90-4	1.6
CHLORDANE	57-74-9	49
CHLORO-1, 1-DIFLUOROETHANE, 1-	75-68-3	2300
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	0.065
CHLOROACETOPHENONE, 2-	532-27-4	0.0093
CHLOROANILINE, P-	106-47-8	19.00
CHLOROBENZENE	108-90-7	6.1
CHLOROBENZILATE	510-15-6	1.60
CHLOROBUTANE, 1-	109-69-3	2300
CHLORODIBROMOMETHANE	124-48-1	3.20
CHLORODIFLUOROMETHANE	75-45-6	2.6
CHLOROETHANE	75-00-3	5.00
CHLOROFORM	67-66-3	2.50
CHLORONAPHTHALENE, 2-	91-58-7	6200
CHLORO[D]NITROBENZENE, [2-]P-	100-00-5	4.9
CHLOROPHENOL, 2-	95-57-8	4.40
CHLOROPRENE	126-99-8	0.45
CHLOROPROPANE, 2-	75-29-6	21
CHLOROTHALONIL	1897-45-6	15
CHLOROTOLUENE, O-	95-49-8	20
CHLORPYRIFOS	2921-88-2	23
CHLORSULFURON	64902-72-3	25
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	650
CHRYSENE	218-01-9	230
CRESOL(S)	1319-77-3	3.1
CRESOL, O-(METHYLPHENOL, 2-)	95-48-7	64
CRESOL, M-(METHYLPHENOL, 3-)	108-39-4	36
CRESOL, P-(METHYLPHENOL, 4-)	106-44-5	4.2
CRESOL, P-CHLORO-M-	59-50-7	37
CROTONALDEHYDE	4170-30-3	0.00099
CROTONALDEHYDE, TRANS-	123-73-9	0.00099
CUMENE (ISOPROPYL BENZENE)*	98-82-8	780
CYCLOHEXANONE	108-94-1	1400
CYFLUTHRIN	68359-37-5	33
CYROMAZINE	66215-27-8	84
DDD, 4,4'-	72-54-8	6.8
DDE, 4,4'-	72-55-9	41
DDT, 4,4'-	50-29-3	53
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	10000
DIALATE	2303-16-4	0.15
DIAMINOTOLUENE, 2,4-	95-80-7	0.0042
DIAZINON	333-41-5	0.082
DIBENZO[A,H]ANTHRACENE	53-70-3	2.50
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0092
DIBROMOBENZENE, 1,4-	106-37-6	<u>150</u>
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.0012
DIBROMOMETHANE	74-95-3	3.7
DI-N-BUTYLPHTHALATE, N-	84-74-2	1500
DICHLOR-2-BUTENE, 1,4-	764-41-0	0.0009
DICHLOROBENZENE, 1,2-	95-50-1	59
DICHLOROBENZENE, 1,3-	541-73-1	61
DICHLOROBENZENE, P-	106-46-7	10
DICHLOROBENZIDINE, 3,3'-	91-94-1	8.3
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	100
DICHLOROETHANE, 1,1-	75-34-3	0.65
DICHLOROETHANE, 1,2-	107-06-2	0.10
DICHLOROETHYLENE, 1,1-	75-35-4	0.19
DICHLOROETHYLENE, CIS-1,2-*	156-59-2	1.6
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	2.3
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.076
DICHLOROPHENOL, 2,4-	120-83-2	1
DICHLOROPHENOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	1.8

Table FP-1a
Clean Fill Concentration Limits for Organics

PARAMETER	CASRN	Clean Fill
		Total Analysis
		mg/kg
DICHLOROPROPANE, 1,2-	78-87-5	0.11
DICHLOROPROPENE, 1,3-	542-75-6	0.12
DICHLOROPROPIONIC ACID (DALAPON), 2,2-	75-99-0	5.30
DICHLORVOS	62-73-7	0.012
DICYCLOPENTADIENE	77-73-6	0.12
DIELDRIN	60-57-1	0.11
DIETHYL PHTHALATE	84-66-2	160
DIFLUBENZIRON	35367-38-5	52
DIMETHOATE	60-51-5	0.28
DIMETHOXYBENZIDINE, 3,3-	119-90-4	16
DIMETHYLAMINOAZOBENZENE, P-	60-11-7	0.037
DIMETHYLANILINE, N,N-	121-69-7	4.1
DIMETHYLBENZIDINE, 3,3-	119-93-7	0.4
DIMETHYLPHENOL, 2,4-	105-67-9	32
DINITROBENZENE, 1,3-	99-65-0	0.049
DINITROPHENOL, 2,4-	51-28-5	0.21
DINITROTOLUENE, 2,4-	121-14-2	0.050
DINITROTOLUENE, 2, 6,- (2,6-DNT)	606-20-2	1.10
DINOSEB	88-85-7	0.290
DIOXANE, 1,4-	123-91-1	0.073
DIPHENAMID	957-51-7	12
DIPHENYLAMINE	122-39-4	12
DIPHENYLHYDRAZINE, 1,2-	122-66-7	0.15
DIQUAT	85-00-7	0.24
DISULFOTON	298-04-4	0.078
DIURON	330-54-1	0.86
ENDOSULFAN	115-29-7	30.00
ENDOSULFAN I (ALPHA)	959-98-8	110
ENDOSULFAN II (BETA)	33213-65-9	130
ENDOSULFAN SULFATE	1031-07-8	70
ENDOTHALL	145-73-3	4.1
ENDRIN	72-20-8	5.5
EPICHLOROHYDRIN	106-89-8	0.056
ETHEPHON	16672-87-0	2.1
ETHION	563-12-2	39
ETHOXYETHANOL, 2- (EGEE)	110-80-5	7.80
ETHYL ACETATE	141-78-6	220
ETHYL ACRYLATE	140-88-5	0.12
ETHYL BENZENE	100-41-4	46
ETHYL DIPROPYL THIOCARBAMATE, S- (EPTC)	759-94-4	65
ETHYL ETHER	60-29-7	53
ETHYLMETHACRYLATE	97-63-2	14
ETHYLENE GLYCOL	107-21-1	170
ETHYLENE THIOUREA (ETU)	96-45-7	0.034
ETHYL P-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	0.12
FENAMIPHOS	22224-92-6	0.17
FENVALERATE (PYDRIN)	51630-58-1	94
FLUOMETURON (FLUORNETRON IN EPA FEB 96)	2164-17-2	2.5
FLUORANTHENE	206-44-0	3200
FLUORENE	86-73-7	3000
FLUOROTROCHLOROMETHANE (FREON 11)	75-69-4	87
FONOFOS	944-22-9	2.9
FORMALDEHYDE	50-00-0	12
FORMIC ACID	64-18-6	210
FOSETYL-AL	039148-24-8	9700
FURAN	110-00-9	0.42
FURFURAL	98-01-1	1.4
GLYPHOSATE	1071-83-6	620
HEPTACHLOR	76-44-8	0.68
HEPTACHLOR EPOXIDE	1024-57-3	1.1
HEXACHLOROBENZENE	118-74-1	0.96
HEXACHLOROBUTADIENE	87-68-3	1.20
HEXACHLOROCYCLOPENTADIENE	77-47-4	91
HEXACHLOROETHANE	67-72-1	0.560

Table FP-1a
Clean Fill Concentration Limits for Organics

PARAMETER	CASRN	Clean Fill
		Total Analysis
		mg/kg
HEXANE	110-54-3	500
HEXYTHIAZOX (SAVEY)	78587-05-0	820
HYDRAZINE/HYDRAZINE SULFATE	302-01-2	0.000098
HYDROQUINONE	123-31-9	20
INDENO[1,2,3-CD]PYRENE	193-39-5	25
IPRODIONE	36734-19-7	430
ISOBUTYL ALCOHOL	78-83-1	76
ISOPHORONE	78-59-1	1.90
KEPONE	143-50-0	0.56
MALATHION	121-75-5	34
MALEIC HYDRAZIDE	123-33-1	47
MANEB	12427-38-2	2
MERPHOS OXIDE	78-48-8	6.6
METHACRYLONITRILE	126-98-7	0.031
METHAMIDOPHOS	10265-92-6	0.022
METHANOL	67-56-1	58.00
METHOMYL	16752-77-5	3.20
METHOXYCHLOR	72-43-5	630
METHOXYETHANOL, 2-	109-86-4	0.41
METHYL ACETATE	79-20-9	690
METHYL ACRYLATE	96-33-3	27
METHYL CHLORIDE	74-87-3	0.038
METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	54
METHYL ISOBUTYL KETONE	108-10-1	2.90
METHYL METHACRYLATE	80-62-6	26.0
METHYL METHANESULFONATE	66-27-3	0.083
METHYL PARATHION	298-00-0	0.42
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	120
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	0.28
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	3.9
METHYLNAPHTHALENE, 2-	91-57-6	2900
METHYLSTYRENE, ALPHA	98-83-9	120
NAPHTHALENE*	91-20-3	25
NAPHTHYLAMINE, 1-	134-32-7	0.30
NAPHTHYLAMINE, 2-	91-59-8	0.01
NAPROPAMIDE	15299-99-7	860
NITROANILINE, M-	99-09-2	0.033
NITROANILINE, O-	88-74-4	0.038
NITROANILINE, P-	100-01-6	0.031
NITROBENZENE	98-95-3	0.79
NITROPHENOL, 2-	88-75-5	5.90
NITROPHENOL, 4-	100-02-7	4.1
NITROPROPANE, 2-	79-46-9	0.000260
NITROSODIETHYLAMINE, N-	55-18-5	0.000018
NITROSODIMETHYLAMINE, N-	62-75-9	0.000041
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3	0.0033
NITROSODI-N-PROPYLAMINE, N-	621-64-7	0.0013
NITROSODIPHENYLAMINE, N-	86-30-6	20.00
NITROSO-N-ETHYLUREA, N-	759-73-9	0.000054
OCTYL PHTHALATE, DI-N-	117-84-0	4400
OXAMYL (VYDATE)	23135-22-0	2.60
PARATHION	56-38-2	130
PCB-1016 (AROCLOR)	12674-11-2	15
PCB-1221 (AROCLOR)	11104-28-2	0.63
PCB-1232 (AROCLOR)	11141-16-5	0.50
PCB-1242 (AROCLOR)	53469-21-9	16
PCB-1248 (AROCLOR)	12672-29-6	9.90
PCB-1254 (AROCLOR)	11097-69-1	4.40
PCB-1260 (AROCLOR)	11096-82-5	<u>30</u>
PEBULATE	1114-71-2	300
PENTACHLOROBENZENE	608-93-5	180
PENTACHLORONITROBENZENE	82-68-8	5.00
PENTACHLOROPHENOL	87-86-5	5.00
PHENACETIN	62-44-2	12.00

Table FP-1a
Clean Fill Concentration Limits for Organics

PARAMETER	CASRN	Clean Fill
		Total Analysis
		mg/kg
PHENANTHRENE	85-01-8	10000
PHENOL	108-95-2	66.00
PHENYLENEDIAMINE, M-	108-45-2	3.10
PHENYLPHENOL, 2-	90-43-7	490
PHORATE	298-02-2	0.41
PHTHALIC ANHYDRIDE	85-44-9	2300
PICLORAM	1918-02-1	7.4
PRONAMIDE	23950-58-5	3.1
PROPANIL	709-98-8	9.2
PROPHAM	122-42-9	17
PROPYLBENZENE, N-	103-65-1	290
PROPYLENE OXIDE	75-56-9	0.049
PYRENE	129-00-0	2200
PYRIDINE	110-86-1	0.11
QUINOLINE	91-22-5	0.018
QUIZALOFOP (ASSURE)	76578-14-8	47
RONNEL	299-84-3	280
SIMAZINE	122-34-9	0.15
STRYCHNINE	57-24-9	0.89
STYRENE	100-42-5	24
TEBUTHIURON	34014-18-1	83
TERBACIL	5902-51-2	2.2
TERBUFOS	13071-79-9	0.12
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	5.1
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.00012
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	18
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.0093
TETRACHLOROETHYLENE (PCE)	127-18-4	0.43
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	450.00
TETRAETHYL LEAD	78-00-2	0.0046
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.73
THIOFANOX	39196-18-4	0.12
THIRAM	137-26-8	47
TOLUENE	108-88-3	44
TOLUIDINE, M-	108-44-1	0.13
TOLUIDINE, O-	95-53-4	0.32
TOLUIDINE, P-	106-49-0	0.32
TOXAPHENE	8001-35-2	1.20
TRIALATE	2303-17-5	240
TRIBROMOMETHANE (BROMOFORM)	75-25-2	4.4
TRICHLORO- 1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	26000
TRICHLOROBENZENE, 1,2,4-	120-82-1	27
TRICHLOROBENZENE, 1,3,5-	108-70-3	31
TRICHLOROETHANE, 1,1,1-	71-55-6	7.20
TRICHLOROETHANE, 1,1,2-	79-00-5	0.15
TRICHLOROETHYLENE (TCE)	79-01-6	0.17
TRICHLOROPHENOL, 2,4,5-	95-95-4	2300
TRICHLOROPHENOL, 2,4,6-	88-06-2	3.1
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	1.50
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILV	93-72-1	22
TRICHLOROPROPANE, 1,1,2-	598-77-6	3.1
TRICHLOROPROPANE, 1,2,3-	96-18-4	1.6
TRICHLOROPROPENE, 1,2,3-	96-19-5	11
TRIFLURALIN	1582-09-8	0.96
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	9
TRIMETHYLBENZENE, 1,3,5-	108-67-8	2.8
TRINITROTOLUENE, 2,4,6-	118-96-7	0.023
VINYL ACETATE	108-05-4	6.50
VINYL BROMIDE (BROMOMETHANE)	593-60-2	0.068
VINYL CHLORIDE	75-01-4	0.03
WARFARIN	81-81-2	2.60
XYLENES (TOTAL)	1330-20-7	990
ZINEB	12122-67-7	29

Table FP-1b**Clean Fill Concentration Limits For Metals and Inorganics**

PARAMETER	Unregulated Fill Total Analysis mg/kg
ANTIMONY	27
ARSENIC ¹	12
BARIUM AND COMPOUNDS	8,200
BERYLLIUM	320
BORON AND COMPOUNDS	6.7
CADMIUM	38
CHLORIDES	na
CHROMIUM III	190,000
CHROMIUM VI	94
COBALT	8.1
COPPER	8,200
CYANIDE FREE	200
LEAD	450
MANGANESE	31,000
MERCURY	10
NICKEL	650
NITRATE NITROGEN	na
NITRITE NITROGEN	na
SELENIUM	26
SILVER	84
SULFATE	na
THALLIUM	14
TIN	240
VANADIUM	1,500
ZINC	12,000

¹ The limit of 12 mg/kg applies to all releases of arsenic. A limit of 20 mg/kg applies to certain construction materials not subject to direct contact upon completion of construction. The limit of 20 mg/kg can only be used if a Department approved Best Management Practices Plan for Earthwork and General Construction is followed by all parties involved in supplying and using materials on the construction project.

Exhibit 5: Coproduct Determination



Pennsylvania Department of Environmental Protection

2 Public Square
Wilkes-Barre, PA 18711-0790
February 6, 2009

Northeast Regional Office

570-826-2511
Fax 570-826-5448

Total Recycling Corporation
3725 Remaly Street
Bethlehem, PA 18018

Re: Total Recycling Corporation
Coproduct Determination for Iron Slag
City of Bethlehem, Lehigh County

Dear Sir or Madam:

On May 22, 2008, the Department received your request for concurrence of coproduct determination to use iron slag from the former Fullerton Slag Bank located at 1820 North Dauphin Street in Allentown, PA to use as construction material listed in Pennsylvania Department of Transportation Construction Specifications Publication 408. We have concurred with your determination contingent upon the implementation of a Department approved sampling and analysis plan to demonstrate that the slag to act as a construction material as defined by Pennsylvania Department of Transportation.

If you require anything further, or would like to discuss this matter, feel free to contact Paul Jarecki, Environmental Chemist or me at the above listed address or at 570-826 2474.

Sincerely,

Tracey L. McGurk
Solid Waste Supervisor
Waste Management Program

cc: Richard Parrish ✓

Exhibit 6: General Permit WMGR082D003

May 31, 2011

CERTIFIED MAIL NO. 70041160000380040635

Mr. Richard Parrish
Impact Environmental Consulting, Inc.
170 Keyland Court
Bohemia, NY 11716

Re: General Permit Number WMGR082D003

Dear Mr. Parrish:

Enclosed is General Permit Number WMGR082D003 for processing and beneficial use of steel slag, iron slag, and refractory bricks that were co-disposed with slag as a construction material. Uses of slag as a construction material under this permit are limited to the following: as an ingredient in bituminous concrete; as aggregate; as base course; and as antiskid material. The approved processing is limited to magnetic separation of metallic and mechanical sizing and separation.

The approval granted under this permit is contingent on Impact Environmental Consulting, Inc. operating as described in the approved application, complying with the enclosed permit conditions, and complying with the applicable provisions of the Residual Waste Management Regulations.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

If you want to challenge this action, your appeal must reach the Board within 30 days. You do not need a lawyer to file an appeal with the Board.

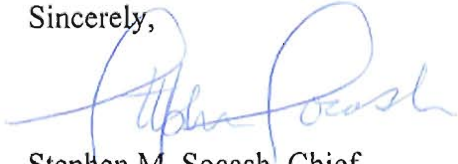
Mr. Richard Parrish

- 2 -

May 31, 2011

Important legal rights are at stake, however, so you should show this document to a lawyer at once. If you cannot afford a lawyer, you may qualify for free pro-bono representation. Call the secretary of the Board (717-787-3483) for more information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Stephen M. Socash", is written over the word "Sincerely,".

Stephen M. Socash, Chief
Division of Municipal and Residual Waste

Enclosure

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT**General Permit
For
Processing/Beneficial Use of Residual Waste**Permit No. WMGRO82D003Date Amended May 17, 2011Date Issued May 31, 2011Date Expires September 11, 2012

The Department of Environmental Protection, Bureau of Waste Management, Division of Municipal and Residual Waste hereby approves the:

☒ Beneficial Use ☒ Processing prior to Beneficial Use ☐ Other

of: steel slag, iron slag, and refractory bricks that were co-disposed with slag by
magnetic separataion of metallics and mechanical sizing and separation

for use as: a construction material

This approval is granted to: Impact Environmental Consulting, Inc.

Mailing: 170 Keyland Court

Site: 1820 North Dauphin Street

Bohemia, NY 11716

Allentown, PA 18109-0674

subject to the attached conditions and may be revoked or suspended for any project which the Department of Environmental Protection determines to have a substantial risk to public health, the environment, or cannot be adequately regulated under the provisions of this permit.

The processing of wastes not specifically identified in the documentation submitted for this approval, or the beneficial use of wastes not approved in this permit, is prohibited without the written permission of the Department.

This permit is issued under the authority of the Solid Waste Management Act (35 P.S. §§ 6018.101-6018.1003), The Pennsylvania Used Oil Recycling Act (58 P.S. §§ 471-480), The Clean Streams Law (35 P.S. §§ 691.1-691.1001), Sections 1905-A, 1917-A and 1920-A of the Administrative Code of 1929 (71 P.S. §§ 510-5, 510-17 and 510-20) and the Municipal Waste Planning, Recycling and Waste Reduction Act (53 P.S. §§ 4000.101-4000.1904).

This approval is granted:

By: 

☒ Statewide

☐ Regional

Title: Environmental Program Manager

THIS PERMIT IS NON-TRANSFERABLE

SPECIAL CONDITIONS
GENERAL PERMIT NUMBER WMGR082

Rev. 5/2011

1. The approval herein granted is limited to the processing and beneficial use of steel slag, iron slag, and refractory bricks that were co-disposed with slag ("slag") as a construction material. The authorized processing is limited to magnetic separation of metallics and mechanical sizing and separation. Uses of slag as a construction material under this permit are limited to the following: as an ingredient in bituminous concrete; as aggregate; as base course; as subbase; and as antiskid material. The approval herein granted to beneficially use slag as a construction material is limited to the uses that meet the applicable PennDOT standards set forth in the Appendix, Condition A7.
2. All metallics separated from the slag during processing shall be shipped to a metals recycler for reclamation or reuse.
3. All activities conducted under the authorization granted in this permit shall be conducted in accordance with the permittee's application. Except to the extent that the permit states otherwise, the permittee shall operate the facility as described in the approved application.

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- 4a. Slag shall not be placed directly into the environment if any of the following levels are exceeded:

<u>Constituent</u>	<u>Total (mg/kg)[†]</u>	<u>Leachable (mg/L)[*]</u>
Antimony	30	0.15
Arsenic	41	1.25
Cadmium	39	0.25
Chromium (total)		1.25
Chromium (III)	190,000	
Chromium (VI)	94	
Copper	1500	32.5
Iron		7.5
Lead	200	1.25
Manganese		15
Nickel	420	2.5
PCBs (for landfilled slag only)		
Non-residential uses	2 [‡]	
Residential uses	1 [‡]	
Thallium	15	0.0125
Zinc	2800	125

Should the slag contain other constituents which do not meet the requirements of §288.623(a) (relating to minimum requirements for acceptable waste) or which pose a threat of harm to human health or the environment, the slag shall not be placed directly into the environment.

[†]On a dry weight basis

^{*}The toxicity characteristic leaching procedure (EPA Method 1311) or the synthetic precipitation leaching procedure (EPA Method 1312) or other leaching procedure approved by the Department shall be used for all leaching analyses.

[‡]The sample preparation for PCB determinations shall be EPA Method 3545.

- b. In addition to the limitations in 4a, slag shall not be placed directly into the environment for use as antiskid or other surface application if the pH of the slag is less than 5.5 or greater than 10.0.

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- c. Slag shall not be used as an ingredient in bituminous concrete if the leachable levels in 4a are exceeded in the slag, unless the following levels are not exceeded in the bituminous concrete:

<u>Constituent</u>	<u>Leachable (mg/L)*</u>
Antimony	0.15
Arsenic	1.25
Cadmium	0.25
Chromium (Total)	1.25
Copper	32.5
Lead	1.25
Nickel	2.5
Thallium	0.0125
Zinc	125

*The toxicity characteristic leaching procedure (EPA Method 1311) or the synthetic precipitation leaching procedure (EPA Method 1312) or other leaching procedure approved by the Department shall be used for all leaching analyses.

Once chemical analysis of the bituminous concrete demonstrates that these levels are not exceeded, reanalysis of the bituminous concrete is not required as long as:

- i. constituent levels in the slag do not exceed those in the waste used to prepare the bituminous concrete analyzed for this demonstration.
 - ii. the quantity of slag per ton of bituminous concrete is not greater than the quantity used for this demonstration.
- d. Slag shall not be used as an ingredient in bituminous concrete if the total PCB level in 4a is exceeded.
5. Prior to the beneficial use of the processed slag, the permittee shall perform chemical analysis on a representative sample of processed slag for the appropriate parameters listed in Condition 4. The chemical analyses required in this Condition shall be performed by a laboratory that is in compliance with the Pennsylvania Environmental Laboratory Accreditation Act, Act of 2002, No. 90, 27 Pa C.S. §4101 et. seq. The permittee shall perform chemical analysis on additional representative samples of processed slag as follows:
- a. annually, for slag obtained directly from the generator and produced on an ongoing basis. In addition, each time there is a significant change in the process generating the slag.
 - b. each time a new source of slag is received; or

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- c. quarterly, for slag which has previously been disposed and is being mined. One grab sample of slag shall be taken each week, of the slag that was processed during that week. These weekly grab samples shall be composited to make up the quarterly sample.
- d. Should the level of any constituent equal or exceeding 90 percent of the limit in Condition 4a, future chemical analyses for the constituent shall be based on monthly samples until such time as levels of the constituent in three consecutive monthly samples are below 90 percent of the limit in Condition 4a. The monthly samples shall also be made up of composites of the weekly grab samples.
- e. Should the level of any constituent exceed the limit in Condition 4a, a sampling plan for future chemical analyses for the constituent shall be submitted to the Department for approval. Slag shall not be beneficially used until the sampling plan is approved by the Department and adhered to by the permittee.

Should knowledge of the generation process, visual observations, or analytical results indicate variability in the quality of the slag, more frequent analysis may be required.

- 6. Prior to the beneficial use of slag or distribution of the slag prior to beneficial use, the permittee shall visually inspect the slag for unusual coloration, stain, or any other indication of contamination or the presence of other wastes or materials. If the presence of other wastes are indicated, as a result of visual observation or testing in compliance with Condition 4, the slag shall not be beneficially used unless the other wastes have been removed from the slag to the greatest extent practical and the slag is retested and found to be in compliance with Condition 4 or the use of the other waste(s) has been approved by the Department, under a beneficial use general permit, for the same beneficial use(s) as the slag will be utilized under this permit.
- 7. The slag shall not be hazardous waste.
- 8. The slag shall not be mixed with other types of solid wastes, including hazardous waste, municipal waste, special handling waste, or other residual waste.
- 9. The slag and metallics shall not be accumulated speculatively.
- 10. This permit does not authorize and shall not be construed as an approval to discharge any waste, wastewater, or runoff from the site of processing to the land or waters of the Commonwealth.
- 11. The permittee shall comply with the fugitive emissions standards adopted under 25 Pa. Code Sections 123.1 and 123.2.

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12. In addition to the requirements of this general permit, a noncoal/industrial minerals permit approved by the appropriate District Mining Office is required to reprocess slag under this authorization or approval under 25 Pa. Code Chapter 77 prior to excavation of any previously disposed slag.
13. Nothing in this permit shall be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulation, provided that said local law, ordinance, or regulation is not preempted by the Pennsylvania Solid Waste Management Act, 35 P.S. §6018.101 et seq., or the Municipal Waste Planning, Recycling and Waste Reduction Act of 1988, 53 P.S. §4000.101 et seq.
14. As a condition of this permit and of the permittee's authority to conduct the activities authorized by this permit, the permittee hereby consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credentials and without delay, to have access and to inspect all areas or permittee controlled adjacent areas where solid waste management activities are being or will be conducted. This authorization and consent shall include consent to collect samples of waste, water, or gases; to take photographs; to perform measurements, surveys, and other tests; to inspect any monitoring equipment; to inspect the methods of operation; and to inspect and/or copy documents, books, and papers required by the Department to be maintained or produced. (See Sec. 608 and 610(7) of the Solid Waste Management Act, 35 P.S. Section 6018.608 and 6018.610(7).) This condition in no way limits any other powers granted to the Department under the Solid Waste Management Act.
15. Failure of the measures herein approved to perform as intended, or as designed, or in compliance with the applicable laws, rules and regulations and terms and conditions of this permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this permit.
16. Any independent contractors or agents retained by the permittee in the completion of activities authorized under this permit shall be subject to prior compliance history review by the Department as specified by the Pennsylvania Solid Waste Management Act of 1980.
17. The activities authorized by this permit shall not harm or present a threat of harm to the health, safety or welfare of the people or environment of this Commonwealth. The Department may modify, suspend, revoke or reissue the authorization granted in this permit if it deems necessary to prevent harm or the threat of harm to the public health, or the environment.

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18. Persons or municipalities that propose to operate under the terms and conditions of this general permit after the date of permit issuance must apply for a determination of applicability to the Department's Bureau of Land Recycling and Waste Management, Division of Municipal and Residual Waste, P.O. Box 8472, Harrisburg, PA 17105-8472. At a minimum, the following information must be provided on forms available from the Department's Bureau of Land Recycling and Waste Management:
- a. Name and street address of applicant;
 - b. Number and title of general permit;
 - c. A chemical and physical analysis, and description of the slag which fully characterizes their composition and properties; the waste generation process; and a plan for screening, managing and rejecting waste.
 - d. Name and location of the generator(s) of the slag;
 - e. A description of the processing operations, including a detailed site drawing showing the permit boundary, processing equipment, placement of storage piles, and other significant features;
 - f. A Preparedness, Prevention, and Contingency (PPC) plan for the facility prepared in accordance with the most recent edition of the Department's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans";
 - g. Proof that copies of the notification have been submitted to the municipality, county, county planning agency and county health department in which the processing activities will be conducted;
 - h. Proof that the slag and waste management activities will be consistent with the general permit;
 - i. Signed and notarized statement by the applicant who seeks to operate under the terms and conditions of this permit that states that the person accepts all conditions of this general permit;
 - j. A application fee in the amount specified in the residual waste regulations, payable to the "Commonwealth of Pennsylvania";
 - k. Proof that copies of the application have been submitted to the municipality, county, county planning agency and county health department in which the primary beneficial use activities will be conducted;
 - i. Information that identifies the applicant (i.e., individual, corporation, partnership, government agency, association, etc.), including the names and addresses of every officer that has a beneficial interest in or otherwise controls the operation of the company;
 - j. A list of all previous permits or licenses issued to the permittee by the Department or federal government under the environmental protection acts; the date of issuance and current status of those permits; and the permittee's compliance history concerning the environmental protection acts;
 - k. Proof that any independent contractors retained by the permittee to perform any activities authorized under this permit are in compliance with Department regulations as required in Condition 16;
 - l. Proof that the applicant has legal right to enter the land and operate the facilities approved under this permit;
 - m. An irrevocable written consent from the landowner giving the Department permission to enter upon the land where the applicant will be conducting waste management activities;
 - n. Additional information the Department believes is necessary to make a decision;

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19. Any person that operates under the provisions of this permit shall immediately notify the Department (see address in Condition 18) via certified mail of any changes in: the company name, address, owners, operators and responsible officials; land ownership and the right to enter and operate on any land occupied by a facility; the system used to process waste; and the status of any permit issued by the Department or federal government under the environmental protection acts.

At least sixty (60) days prior to a permittee operating a processing facility at a new location, two (2) copies of the following must be supplied to the Department (see address in Condition 18), in writing:

- a. Name, address, phone number, and contact person for the new facility;
 - b. A description of the processing operations, including a detailed site drawing showing placement of storage units and their capacities, containment areas, and other significant features, and a map showing the facility placement;
 - c. Proof that copies of the notification have been submitted to the municipality, county, county planning agency and county health department in which the processing activities will be conducted;
 - d. A Preparedness, Prevention, and Contingency (PPC) plan for the facility prepared in accordance with the most recent edition of the Department's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans";
 - e. Proof that the applicant has legal right to enter the land and operate the facilities approved under this permit;
 - f. An irrevocable written consent from the landowner giving the Department permission to enter upon the land where the applicant will be conducting waste management activities;
 - g. Proof that any independent contractors retained by the permittee to perform any activities authorized under this permit are in compliance with Department regulations as required in Condition 16.
20. Daily inspections of equipment during waste processing activities shall be conducted to ensure that equipment will operate properly and to examine for evidence of equipment failure. During periods of extended equipment failure or shutdown, waste may be stored for no more than 90 days from the time the equipment failure or shutdown occurred. The permittee shall maintain at the permitted facility an updated copy of a Preparedness, Prevention, and Contingency (PPC) plan for the facility prepared in accordance with the most recent edition of the Department's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans". The PPC plan shall be updated every 5 years or more frequently if necessary (e.g., if changes in phone numbers, equipment, or regulatory requirements occur).

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23. Storage of slag by the permittee shall be in a manner that complies with 25 Pa. Code Chapter 299 (relating to the storage of residual waste). Leachate and runoff produced from the storage of slag shall be managed in accordance with The Clean Streams Law. Storage of residues from the processing of slag or other wastes discovered during the mining of slag shall be in a manner that complies with 25 Pa. Code Chapter 299 or 40 CFR Part 262, Subpart C (relating to pre-transport requirements for hazardous waste), as incorporated by reference in 25 Pa. Code 262a.10, whichever is applicable.
24. Any residues from the processing of slag or other wastes discovered during the mining of slag not approved for placement on-site in the reclamation plan under a non-coal mining permit shall be transported off-site, within 90 days, to a facility authorized to manage the waste in a manner that complies with 25 Pa. Code Chapter 299 (relating to the transportation of residual waste) or 40 CFR Part 263 (relating to transportation of hazardous waste), as incorporated by reference in 25 Pa. Code 262a.10, whichever is applicable.
25. The permittee shall immediately notify the Department's Emergency Hotline at (717) 787-4343 and the appropriate DEP regional office in the event of a discharge or spill of slag and shall take appropriate immediate action to protect the health and safety of the public and the environment. Spills of less 1000 pounds of slag need not be reported.
26. Records of any analytical evaluations conducted on slag pursuant to the residual waste regulations and this permit, shall be kept by the permittee at the permittee's place of business and shall be available to the Department for inspection. At a minimum, these records shall include information on the dates of testing, each parameter tested, the results, the laboratory, sampling procedures, analytical methodologies, and person collecting the sample. This waste analysis information shall be retained by the permittee at the permittee's place of business for a minimum of 5 years after the analyses were performed.
27. The permittee shall maintain records that contain: the name, address, and phone number of each source of incoming slag, the date of receipt and quantity of slag received at each location, the results of analysis as required in Condition 5, results of testing to show slag satisfies the requirements of the applicable Pennsylvania Department of Transportation (PennDOT) specifications, as outlined in their Publication 408, Specifications, and the name, address, and phone number, and quantity for each destination of outgoing shipment of slag. Records of any analytical evaluations conducted on the slag shall include information on the dates of testing, each parameter tested, the results, the laboratory, sampling procedures, analytical methodologies and person collecting the sample. The permittee shall also maintain records of all spills of 1000 pounds or greater and releases that contain: location, date, time, identification and quantity of spilled or released material, and a description of how the material was cleaned up. These records shall be retained by the permittee at the permittee's place of business for a minimum of 5 years from the date the records were generated and shall be available to the Department for inspection.

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28. The permittee shall submit an annual report to the Department's office in the region where the permittee is located. This report shall contain a summary of all the information required in Conditions 5 and 27, and shall be submitted by the anniversary date on which the permittee was covered under this permit.
29. The permittee shall comply with the terms and conditions of this general permit and with the environmental protection acts to the same extent as if the activities were covered by an individual permit. The Department may require an individual permit if the permittee is not in compliance with the conditions of this general permit or is conducting an activity that harms or presents a threat of harm to the health, safety, or welfare of the people or the environment.
30. Upon cessation of operations at the facility, the permittee shall comply with any applicable closure requirements in 25 Pa. Code § 297.272.
31. Prior to the beneficial use of slag as an aggregate or supplying slag for use as an aggregate, the permittee shall hydrate the slag as described in Section 703.2(a)(4) of the Pennsylvania Department of Transportation (PennDOT) as outlined in their Publication 408, Specifications. Leachate and runoff produced from the hydration of slag shall be managed in accordance with The Clean Streams Law.
32. The permittee shall inform all persons or municipalities that propose to beneficially use slag covered under this permit of all the conditions and limitations imposed on the use of Slag by the Department of Environmental Protection. This notification shall be by providing a copy of the Appendix (Restrictions on Use of Slag as Construction Material) of this permit to the persons or municipalities. In addition, the permittee shall inform all persons or municipalities that propose to beneficially use slag covered under this permit of the acceptable uses of the slag being supplied based on the limitations in Condition 4. The conditions in the Appendix shall apply to any person who operates pursuant to this general permit, including persons who obtain a Determination of Applicability to conduct activities authorized by this permit.
33. A person or municipality that plans to continue the operations authorized under this general permit, after the expiration date indicated on the approval for coverage page, shall file a complete application for permit renewal at least 180 days before the expiration date of this general permit unless permission has been granted by the Department for submission at a later date. The renewal application shall be made using the "Form 20 (Application For a Municipal or Residual Waste General Permit)".

In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the general permit or approval for coverage before its current coverage expiration date, the terms and conditions of the approved coverage will automatically continue and will remain fully effective and enforceable pending the issuance or denial of the renewal for permit coverage provided the permittee is, and has been, operating in compliance with the terms and conditions of the general permit.

APPENDIX
Restrictions on Use of Slag
As Construction Material
General Permit No. WMGR082

Rev 5/2011

The following restrictions apply to the beneficial use of slag from the production of steel or iron as construction material.. Persons receiving, storing, and/or using slag for beneficial use purposes are required to comply with the following requirements:

STORAGE AND TRANSPORTATION

- A1. Slag shall not be stored in direct contact with ground water.
- A2. The amount of slag that may be stored at any site at any point in time is limited to that amount of slag that is intended to be used, and can be practicably used, on the site for the next 365 days, but in no case shall more than 5000 tons of unused slag be stored on any one site unless otherwise approved by the Department.
- A3. Runoff from slag storage areas shall not cause surface water pollution or groundwater degradation and shall be managed in accordance with The Clean Streams Law and regulations promulgated thereunder.
- A4. Slag shall not be stored within these minimum isolation distances:
 - (a) 100 feet of an intermittent or perennial stream;
 - (b) 300 feet of a water source, unless otherwise approved by the Department, in writing;
 - (c) 50 feet of a property line, unless the current owner has provided a written waiver consenting to the activities being closer than 50 feet;
 - (d) 300 feet of an occupied dwelling, unless the current owner has provided a written waiver consenting to the activities being closer than 300 feet;
 - (e) 100 feet of a sinkhole or area draining into a sinkhole;
 - (f) 1,000 feet upgradient of a surface water source, unless otherwise approved by the Department, in writing;
 - (g) 25 feet of the perimeter of an undrained depression
 - (h) 300 feet of an exceptional value wetland
- A5. The storage and transportation of the slag shall be in a manner that will not create a nuisance or be harmful to the public health, safety or the environment. The storage and transportation of slag shall comply with the requirements of 25 PA Code Chapter 299 (relating to storage and transportation of residual waste).
- A6. Slag shall not be transported to or stored at any site prior to obtaining all necessary zoning and planning approvals for the proposed development project, prior to having an end use contract in place for the site where the slag are to be used, and prior to having financing in place for the proposed development project.

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Restrictions on Use of Slag
As Construction Material
General Permit No. WMGR082

Rev 5/2011

ACCEPTABLE USES:

A7. Approval to use slag as a construction material is limited to the following activities and must comply with the following technical standards developed by the Pennsylvania Department of Transportation (PennDOT) as outlined in their Publication 408, Specifications.

- (a) 206 (Embankment)
- (b) 210 (Subgrade)
- (c) 350 (Subbase)
- (d) 600 (Incidental Construction)
- (e) 703 (Aggregate)

USE RESTRICTIONS:

- A8. Slag shall not be placed in direct contact with surface water or groundwater or used in any construction activity within 100 feet of a perennial stream, 300 feet of an exceptional value wetland or 300 feet of a private or public water source.
- A9. Slag shall not be used as a valley fill material, to fill open pits from coal or other fills; or to level an area or bring an area to grade where the construction activity is not completed promptly after the placement of the solid waste.
- A10. Use of slag as fill material in landfill closure and site remediation is not authorized under this general permit.
- A11. Hazardous wastes, municipal waste, special handling waste, and other residual wastes may not be mixed and/or beneficially used with the slag.
- A12. The beneficial use of slag shall be in a manner which will not create a nuisance or be harmful to the public health, safety or the environment.
- A13. Placement of slag on any one project shall not continue for longer than 365 days without written authorization from the Department.

Exhibit 7: TRC General Liability Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/15/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Weiss Schantz Agency, Inc. 1631 Main Street PO Box L Hellertown PA 18055		CONTACT NAME: Mary McCornac PHONE (A/C, No, Ext): (610) 838-7801 FAX (A/C, No): (610) 838-2420 E-MAIL ADDRESS: mary@weisschantz.comX	
		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A: Selective Ins Co of America	12572
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES	CERTIFICATE NUMBER: CL1210801804	REVISION NUMBER:
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATION MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.		

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY			S 1844128	12/14/2012	12/14/2013	EACH OCCURRENCE	\$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person)	\$ 5,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
GEN'L AGGREGATE LIMIT APPLIES PER:								
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC							\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident)	\$
								\$
								\$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB	<input checked="" type="checkbox"/> OCCUR		S 1844128	12/14/2012	12/14/2013	EACH OCCURRENCE	\$ 1,000,000
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE	\$ 1,000,000
	<input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$	0						\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			WC 7989844	7/1/2012	7/1/2013	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y/N	N/A				E.L. EACH ACCIDENT	\$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$ 500,000
							E.L. DISEASE - POLICY LIMIT	\$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Additional Insured: Impact Environmental

CERTIFICATE HOLDER (610) 261-9215 Impact Environmental 170 Keyland Court Bohemia, NY 11716	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE Mary McCornac/MAR <i>Mary McCornac</i>
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Exhibit 8: Impact Environmental General, Pollution and E&O Insurance Certificate



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/15/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER The Graham Company The Graham Building 1 Penn Square West Philadelphia, PA 19102		(215) 567-6300	CONTACT NAME: Joseph C. Holden PHONE (A/C, No, Ext): 215-567-6300 FAX (A/C, No): 215-933-3988 E-MAIL ADDRESS: Holden_Unit@grahamco.com	
INSURED Impact Environmental Consulting, Inc. 170 Keyland Court Bohemia, NY 11716-		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: Ironshore Specialty Insurance Co.		25445
		INSURER B: Wesco Insurance Company		25011
		INSURER C: Commerce & Industry Insurance Company		19410
		INSURER D:		
		INSURER E:		
		INSURER F:		

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GENERAL LIABILITY			000291602	5/12/2012	5/12/2013	EACH OCCURRENCE \$ 2,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$ 25,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY \$ 1,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC						GENERAL AGGREGATE \$ 4,000,000
							PRODUCTS - COMP/OP AGG \$ 4,000,000
							\$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY			WPP1061642	5/12/2012	5/12/2013	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident) \$
							\$
							\$
A	<input type="checkbox"/> UMBRELLA LIAB			000291702	5/12/2012	5/12/2013	EACH OCCURRENCE \$ 23,000,000
	<input checked="" type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE \$ 23,000,000
	<input type="checkbox"/> DED	<input type="checkbox"/> RETENTION \$					\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			009930961	10/13/2012	10/13/2013	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N <input checked="" type="checkbox"/> N	N/A				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liability			000291602	5/12/2012	5/12/2013	\$2,000,000/\$4,000,000 Occur/Aggr.
A	Pollution			000291602	5/12/2012	5/12/2013	\$2,000,000/\$4,000,000 Occur/Aggr.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION****EVIDENCE OF COVERAGE**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



IRONSHORE SPECIALTY INSURANCE COMPANY

75 Federal St
Boston, MA 02110
Toll Free: (877) IRON411

THE INSURER(S) NAMED HEREIN IS (ARE) NOT LICENSED BY THE STATE OF NEW YORK, NOT SUBJECT TO ITS SUPERVISION, AND IN THE EVENT OF THE INSOLVENCY OF THE INSURER(S), NOT PROTECTED BY THE NEW YORK STATE SECURITY FUNDS. THE POLICY MAY NOT BE SUBJECT TO ALL OF THE REGULATIONS OF THE INSURANCE DEPARTMENT PERTAINING TO POLICY FORMS.

ENVIRONMENTAL PROTECTION INSURANCE COVERAGE PACKAGE (EPIC PAC) DECLARATIONS

Policy Number: 000291602

Renewal of Policy Number: 000291601

Item 1. Named Insured & Mailing Address: Impact Environmental Consulting, Inc.
170 Keyland Court
Bohemia, NY 11716

Item 2. Policy Period: **Effective:** May 12, 2012 **Expiration:** May 12, 2013
12:01 a.m. time at your mailing address shown above.

Item 3. Limits Of Insurance And Deductible:	LIMIT	DEDUCTIBLE
Each Occurrence Limit – COVERAGE PART I: Coverage A,B,C Inclusive	\$ 2,000,000	\$0
Coverage A: General Bodily Injury and Property Damage Liability		
Coverage B: Hostile Fire and Building Equipment Liability		
Coverage C: Products Pollution and Exposure Liability		
Each Occurrence Limit – COVERAGE PART I: Coverage D,E,F Inclusive	\$ 2,000,000	\$10,000
Coverage D: Time-Element Pollution Bodily Injury and Property Damage Liability		
Coverage E: Non-Owned Site Pollution Bodily Injury and Property Damage Liability		
Coverage F: Pollution Liability during Transportation		
Each Occurrence Limit - Contractors Pollution Liability: Coverage G	\$ 2,000,000	\$10,000
Damage to Premises Rented to You Limit: Any one premises	\$ 500,000	N/A
Personal and Advertising Injury Limit: Any one person or organization	\$ 1,000,000	N/A
Employee Benefits Administration Liability Limit: Any one employee	\$ 1,000,000	N/A
Medical Expense Limit: Any one person	\$ 25,000	N/A
Each Incident Limit - COVERAGE PART III: Site Pollution Incident Legal Liability	\$ 2,000,000	\$25,000
Each Incident Limit - COVERAGE PART IV: Professional Liability	\$ 2,000,000	\$20,000
GENERAL AGGREGATE LIMIT	\$ 4,000,000	N/A
PRODUCTS COMPLETED OPERATIONS AGGREGATE LIMIT	\$ 4,000,000	N/A

Item 4. Form of Business:

☐ Individual ☐ Partnership ☐ Joint Venture ☐ Trust ☐ Limited Liability Company
☒ Organization, including a Corporation (But not including a Partnership, Joint Venture, or Limited Liability Company)

Item 5.

Policy Premium:	\$178,374.00
Premium for Acts of Terrorism (TRIA):	Not Purchased
Total Premium (Including TRIA):	\$178,374.00
NY Surplus Lines Premium Tax:	\$6,421.46
NY Stamping Fee:	\$356.74
Total Amount Due:	\$185,152.20

Item 6. Professional Liability Retroactive Date: 01/08/2003

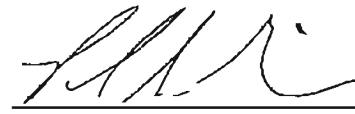
Item 7. Site Pollution Legal Liability Retroactive Date: See INSURED SITE SCHEDULE (If Applicable)

Item 8. Broker & Mailing Address: Ironshore Insurance Services LLC
75 Federal Street
Suite 500
Boston, MA 02110

Service Provider: Graham Company
One Penn Square West
Philadelphia, PA 19102

Item 9. Policy Coverage Form: IE.COV.EPIC.001 (0411) Coverage Form
Endorsements: See SCHEDULE OF ENDORSEMENTS

Date: May 31, 2012
MO/DAY/YR.


Authorized Representative

Named Insured: Impact Environmental Consulting, Inc.

Policy Number: 000291602

Effective 12:01 AM: May 12, 2012

SCHEDULE OF ENDORSEMENTS

Endorsement number - Form Number – Edition Date – Form Name

1. IE.PN.ALL.002 (1010) NOTICE OF CLAIM
2. IE.END.ALL.002 (0409) TERRORISM EXCLUSION
3. IE.END.EPIC.003 (0409) INSURED SITE SCHEDULE
4. IE.END.EPIC.026 (0110) PROFESSIONAL SERVICES EXCLUSION COVERAGE PART I
5. IE.END.ALL.001 (0409) NAMED INSURED
6. IE.END.EPIC.012 (0411) SPECIFIED ADDITIONAL INSURED
7. IE.END.EPIC.014 (0509) SPECIFIED ENTITY - WAIVER OF RIGHTS OF RECOVERY
8. IE.END.EPIC.019 (0709) NOTICE OF CANCELLATION_ DESIGNATED ENTITY
9. MANUSCRIPT: SPECIFIED LIMITS OF INSURANCE AMENDMENT



IRONSHORE SPECIALTY INSURANCE COMPANY

75 Federal St
Boston, MA 02110
Toll Free: (877) IRON411

THE INSURER(S) NAMED HEREIN IS (ARE) NOT LICENSED BY THE STATE OF NEW YORK, NOT SUBJECT TO ITS SUPERVISION, AND IN THE EVENT OF THE INSOLVENCY OF THE INSURER(S), NOT PROTECTED BY THE NEW YORK STATE SECURITY FUNDS. THE POLICY MAY NOT BE SUBJECT TO ALL OF THE REGULATIONS OF THE INSURANCE DEPARTMENT PERTAINING TO POLICY FORMS.

ENVIRONMENTAL EXCESS LIABILITY DECLARATIONS

Policy Number: 000291702

Renewal of Policy Number: 000291701

Item 1. **Named Insured & Mailing Address:** Impact Environmental Consulting, Inc.
170 Keyland Court
Bohemia, NY 11716

Item 2. **Policy Period:** **Effective:** May 12, 2012 **Expiration:** May 12, 2013
12:01 a.m. time at your mailing address shown above

Item 3: **LIMITS OF INSURANCE**

a. Each Event Limit \$ 23,000,000
b. Aggregate Limit (See Section II.A.) \$ 23,000,000

Item 4. **LIMITS OF UNDERLYING INSURANCE**

a. Each Event Limit See Schedule of Underlying Insurance
b. Aggregate Limit See Schedule of Underlying Insurance

Item 5. **CONTROLLING UNDERLYING INSURANCE**

Coverage See Schedule of Underlying Insurance
Policy Number See Schedule of Underlying Insurance
Insurer See Schedule of Underlying Insurance
Policy Period See Schedule of Underlying Insurance
Limit of Insurance See Schedule of Underlying Insurance

Item 6.

Policy Premium:	\$102,053.00
Premium for Acts of Terrorism (TRIA):	Not Purchased
Total Premium (Including TRIA):	\$102,053.00
NY Surplus Lines Premium Tax:	\$3,673.90
NY Stamping Fee:	\$204.10
Total Amount Due:	\$105,931.00
Minimum Earned Premium:	\$ 0

Item 7. Broker & Mailing Address:

Ironshore Insurance Services LLC
75 Federal Street
Suite 500
Boston, MA 02110

Service Provider:

Graham Company
One Penn Square West
Philadelphia, PA 19102

Item 8. Policy Coverage Form:
Endorsements:

IE.COV.EEL.001 (0409) Excess Coverage Form
See Schedule of Endorsements

Date: May 31, 2012
MO/DAY/YR.


Authorized Representative

Named Insured: Impact Environmental Consulting, Inc.

Policy Number: 000291702

Effective 12:01 AM: May 12, 2012

SCHEDULE OF ENDORSEMENTS

Endorsement Number – Edition Date – Form Name

1. IE.PN.ALL.002 (1010) Notice of Claim
2. IE.END.ALL.002 (0409) Terrorism Exclusion
3. IE.PN.EXCESS.001 (0409) Schedule of Underlying Insurance
4. IE.END.EXCESS.001 (0409) Non Followed Coverage Section or Clause Endorsement
5. IE.END.ALL.001 (0409) Named Insured



Wesco Insurance Company
P.O. Box 318004
Cleveland OH 44131-0880

Policy Number:

WPP1061642 00

Named Insured:

Impact Environmental Consulting, Inc.

COMMERCIAL PACKAGE POLICY BUSINESS AUTO COVERAGE PART

ITEM ONE

Policy Number WPP1061642 00

Policy Period: From 5/12/2012 To 5/12/2013
12:01 a.m. Standard Time at the Named Insured's Address

Transaction	New Business
Named Insured and Address Impact Environmental Consulting, Inc. 170 Keyland Court Bohemia NY 11716	Agent McKee Risk Management, Inc. 1060 First Avenue, Suite 202 King of Prussia PA 19406 Telephone: (484) 674-4000

Business Description	Type of Business	Audit Period
Environmental Agency	Organization Including a Corporation	Annual

ITEM TWO: SCHEDULE OF COVERAGES AND COVERED AUTOS

This policy provides only those coverage's where a charge is shown in the premium column below. Each coverage will apply only to those "autos" shown as covered "autos", indicated by the entry of one or more symbols from the COVERED AUTO Section of the Business Auto Coverage Form next to the name of the coverage.

COVERAGES	COVERED AUTO SYMBOLS	LIMIT THE MOST WE WILL PAY FOR ANY ONE ACCIDENT OR LOSS	PREMIUM
LIABILITY	1	\$1,000,000 per accident	\$38,008.00
PERSONAL INJURY PROTECTION (or equivalent No-fault coverage)	5	Separately stated in each PIP endorsement minus None Deductible	\$663.00
ADDED PERSONAL INJURY PROT. (or equivalent No-fault coverage)	5	Separately stated in each Added PIP endorsement	\$928.00
PROPERTY PROTECTION INS. (Michigan only)		Separately stated in each P.P.I. endorsement minus deductible each accident	
AUTO MEDICAL PAYMENTS	2	\$5000 Each Insured	\$34.00
UNINSURED MOTORISTS	2	\$50,000 Each Accident	\$264.00
UNDERINSURED MOTORISTS (When not included in Uninsured Motorists Coverage)	2	\$50,000 Each Accident	\$72.00
PHYSICAL DAMAGE COMPREHENSIVE	2, 8	Actual Cash Value or Cost of Repair, whichever is less, minus the Deductible stated in the Schedule of Covered Autos for each covered auto, but no Deductible applies to loss caused by lightning or fire. See ITEM FOUR for hired or borrowed "autos".	\$1,964.00
PHYSICAL DAMAGE SPECIFIED CAUSES OF LOSS		Actual Cash Value or Cost of Repair, whichever is less, minus \$25 Deductible for each covered auto for loss caused by Mischief or Vandalism. See ITEM FOUR for hired or borrowed "autos".	
PHYSICAL DAMAGE COLLISION	2, 8	Actual Cash Value or Cost of Repair, whichever is less, minus the Deductible stated in the Schedule of Covered Autos for each covered auto. See ITEM FOUR for hired or borrowed "autos".	\$9,403.00
PHYSICAL DAMAGE TOWING AND LABOR (not available in California)	3	\$50 for each disablement of a private passenger "auto"	\$6.00
Premium for Endorsements			
Estimated Total Premium			\$51,342.00

Forms and Endorsements Applicable to this policy
See Forms and Endorsements Schedule

Exhibit 9, TRC/Impact Environmental Source Generator Application



Long Island | 170 Keyland Court | Bohemia, NY 11716 | Tel: 631.269.8800 Fax: 631.269.1599

Manhattan | 1560 Broadway, Suite 1024 | New York, NY 10036 | Tel: 212.201.7905 Fax: 212.202.4079

www.impactenvironmental.com

APPLICATION FORM TOTAL RECYCLING CORP.

(PLEASE PRINT OR TYPE – ATTACH ADDITIONAL SHEETS IF NECESSARY)

PROJECT INFORMATION

- 1) NAME, ADDRESS AND TELEPHONE NUMBER OF SOURCE OWNER/GENERATOR:

- 2) SOURCE NAME AND PHYSICAL LOCATION (INCLUDE LOT AND BLOCK):

- 3) VOLUME SUBJECT OF THIS APPLICATION: _____

- 4) DESCRIBE BOTH CURRENT AND HISTORIC LAND USES OF THE SITE FROM WHICH THE MATERIAL WAS GENERATED, THE DATE(S) THE MATERIAL WAS GENERATED, REASONS FOR THE GENERATION OF MATERIAL AND/OR THE PROCESS BY WHICH THE MATERIAL WAS GENERATED.

- 5) DESCRIBE ANY REGULATORY (ENVIRONMENTAL) INVOLVEMENT IN THE PROJECT.

- 6) DESCRIBE THE OPERATIONAL CONTROLS TO BE TAKEN DURING THE HANDLING AND TRANSPORTATION OF THE MATERIAL TO MINIMIZE ENVIRONMENTAL AND HUMAN IMPACTS:

- 7) DEFINE THE TYPE OF SOLID WASTE – IF MIXTURE INCLUDE EACH COMPONENTS % OF THE WHOLE:

- ☐ UNCONTAMINATED SOIL _____ %
- ☐ CONSTRUCTION SITE FILL MEETING PA CLEAN FILL STANDARDS _____ %
- ☐ RECYCLED ASPHALT _____ %
- ☐ DRINKING WATER TREATMENT PLANT RESIDUALS _____ %
- ☐ STONES _____ %
- ☐ RECYCLED MASONRY BRICK, BLOCK _____ %
- ☐ PROCESSED DREDGE MATERIAL (ADM) _____ %
- ☐ BRICK _____ %
- ☐ SLAG _____ %
- ☐ OTHER _____ %, DESCRIBE BELOW:

- 8) INDICATE THE ITEMS CONSIDERED FOR REFERENCE WITH THIS APPLICATION:

- ☐ A SITE MAP OF THE LOCATION OF THE SITE OF ORIGIN.
- ☐ A SAMPLING PLAN FOR ALL SAMPLES THAT WILL BE OBTAINED FROM THE PROPOSED MATERIAL, INCLUDING A SITE MAP DEPICTING SAMPLE LOCATIONS, SAMPLING FREQUENCY AND COMPOSTING FREQUENCY.
- ☐ ALL LABORATORY REPORTS PREPARED BY THE COMMERCIAL TESTING LABORATORY, INCLUSIVE OF CHAIN OF CUSTODY DOCUMENTATION.
- ☐ ANY TABULATED SUMMARY SPREADSHEETS SUMMARIZING THE DATA ON THE LABORATORY REPORTS.

☐ ALL AVAILABLE ENVIRONMENTAL OR GEOTECHNICAL REPORTS WITH RESPECT TO THE SITE AND OR SITES THAT WHERE THE WASTE WAS GENERATED.

9) NAME, ADDRESS AND TELEPHONE NUMBER OF THE LABORATORY:

10) LIST THE SAMPLE NAMES/ID#'S FOR ALL SAMPLES INCLUDED OR REFERENCED WITHIN THE LABORATORY REPORT(S) AND SUBMITTED FOR CONSIDERATION AS PART OF THIS APPLICATION:

11) LIST THE SAMPLE NAMES/ID#'S FOR ALL SAMPLES INCLUDED OR REFERENCED WITHIN THE LABORATORY REPORT(S) AND **NOT** SUBMITTED FOR CONSIDERATION AS PART OF THIS APPLICATION:

12) NAME, ADDRESS AND TELEPHONE NUMBER OF THE COMPANY THAT PERFORMED THE SAMPLING:

13) IS THE PROPOSED MATERIAL CLASSIFIED AS A HAZARDOUS WASTE BY TOXICITY OR BY DEFINITION?

☐ YES

☐ NO

14) IS THE PROPOSED MATERIAL SUBJECT TO LAND DISPOSAL RESTRICTIONS PHASE IV AT 40 CFR 268?

☐ YES

☐ NO

15) HAS THE MATERIAL BEEN PREVIOUSLY CLASSIFIED AS A RESIDUAL WASTE PURSUANT TO PENNSYLVANIA LAW?

☐ YES

☐ NO

CHAIN OF PAYMENT

IN ORDER, STARTING WITH THE OWNER/GENERATOR AND ENDING WITH THE COMPANY TO BE BILLED FOR LOADS OF WASTE RECEIVED, PROVIDE THE CHAIN OF PAYMENT. THIS INFORMATION WILL NOT BE USED TO CIRCUMVENT ANY PARTIES INVOLVED IN THE TRANSACTION.

OWNER/GENERATOR, NAME AND CONTACT #

IF APPLICABLE, TIER 1 CONTRACTOR/BROKER, NAME AND CONTACT #

BILLING ENTITY, NAME AND CONTACT #

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I AM THE OWNER/GENERATOR OF THE SOLID WASTE REFERENCED WITHIN THIS APPLICATION, AND THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE AND COMPLETE. FURTHER, I HAVE REVIEWED THE PERMIT PROVIDED BY IMPACT ENVIRONMENTAL CONSULTING, INC. ISSUED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND UNDERSTAND ITS REQUIREMENTS AND OBLIGATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT. I UNDERSTAND THAT, IN ADDITION TO CRIMINAL PENALTIES, I MAY BE LIABLE FOR A CIVIL ADMINISTRATIVE PENALTY PURSUANT TO APPLICABLE LAW AND THAT SUBMITTING FALSE, INACCURATE, OR INCOMPLETE INFORMATION MAY BE GROUNDS FOR DENIAL, REVOCATION, OR TERMINATION OF ANY SOLID WASTE FACILITY PERMIT, LICENSE, OR OTHER OPERATING AUTHORITY FOR WHICH I MAY BE SEEKING APPROVAL OR NOW HOLD.

NAME AND ADDRESS OF OWNER /GENERATOR (PERSONAL OR CORPORATE):

PRINTED NAME OF OWNER/GENERATOR: _____

SIGNATURE OF OWNER/GENERATOR: _____ DATED _____

Exhibit 10, Example Microsoft Excel Spreadsheet

Upper Confidence Interval Analysis
Example Microsoft Excel Spreadsheet
-Provided by PADEP

Column Row	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	SAMPLE RESULTS											UPPER CONFIDENCE INTERVAL		LOWER CONFIDENCE LIMIT
6														
7														
8	1.2											1.677	132.2039	42.7888
9	1.6													
10	0.47													
11	1.1											30		
12	0.3													
13	0.25													
14	67.1											COUNT		
15	132													
16	128													
17	193											STANDARD ERROR		
18	45.7													
19	1.4													
20	311											1.677	132.2039	42.7888
21	126													
22	554													
23	51.1											COUNT		
24	1.6													
25	320													
26	245											STANDARD ERROR		
27	431													
28	1.8													
29	1.4											1.677	132.2039	42.7888
30	0.28													
31	1.1													
32	0.29											COUNT		
33	1.5													
34	1.4													
35	1.2											STANDARD ERROR		
36	1.3													
37	2.8													

Calculation Formula
Standard Deviation: STDEV(B8:B43)
Count:COUNT(B8:B43)
T: 1.677
Average: AVERAGE(B8:B43)
Standard Error: E9/SQRT(G9)
Upper Confidence Interval: E15+I9*G14
Lower Confidence Limit: E15-I9*G14

TAKEN FROM SW-846

r

Calculation Formula
Standard Deviation: STDEV(B8:B43)
Count: COUNT(B8:B43)
T: 1.677
Average: AVERAGE(B8:B43)
Standard Error: E9/SQRT(G9)
Upper Confidence Interval: E15+I9*G14
Lower Confidence Limit: E15-I9*G14

TAKEN FROM SW-846

Exhibit 11: Fullerton Slag Bank NPDES Permit



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

POTTSVILLE DISTRICT OFFICE

May 23, 2012

Total Recycling Corporation
dba Total Recycling Resources
PO Box 90674
Allentown, PA 18109-0674

Re: Surface Mining Permit No. 7874SM1C2
Authorization to Mine No. 16848-7874SM1-02
NPDES General Permit No. 7874SM1GP104
Fullerton Slag Bank
Hanover Township, Lehigh County

Ladies and Gentlemen:

The above-referenced permit is hereby corrected per Application No. 7874SM1C2 dated October 17, 2011. The purpose of this correction is to update the existing operation plan, bonding and to incorporate NPDES General Permit No. 7874SM1GP104 into the permit. The enclosed information shall be considered an addendum to the original permit issued on August 21, 1974 and any subsequent revisions or corrections. This information is to be filed with your copy of the original permit and, in case of any conflicts with the original permit, shall take precedence over the original permit information.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 PA C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, phone 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in Braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law. If you want to challenge this action, your appeal must reach the Board within 30 days. You do not need a lawyer to file an appeal with the Board. Important legal rights are at stake, however, so you should show this document to a lawyer at once. If you cannot afford a lawyer, you may qualify for free pro bono representation. Call the Secretary to the Board at 717.787.3483 for more information.

Sincerely,

Michael J. Menghini

Michael J. Menghini
District Mining Manager
District Mining Operations

Enclosures

cc: Gary A. Latsha, SMCIS
Chris Kuba, SMC
Alchemy Dev., LLC, Consultant
Municipality of Hanover Twp.
County of Lehigh
File
MS1-Totre (5/12)

MJM:NAH:CW:pae



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATION

**APPROVAL OF COVERAGE UNDER THE GENERAL NPDES
PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH
MINING ACTIVITIES (BMR GP-104)**

GENERAL NPDES PERMIT NO: 7874SM1GP104

Site Name & Location

Operator Name & Address

Fullerton Slag Bank

Total Recycling Corporation

Hanover Township

d/b/a Total Recycling Resources

Lehigh County

PO Box 90674

Allentown, PA 18109-0674

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq., the Department of Environmental Protection hereby approves the Notice of Intent (NOI) submitted for coverage to discharge stormwater to the following surface water(s)

Lehigh River Watershed (Between PA903 Bridge & Allentown Dam)

subject to the Department's enclosed BMR GP-104 which incorporates all effluent limitations, monitoring and reporting requirements and other terms, conditions, criteria and special requirements for the discharge of stormwater from point sources composed entirely of stormwater associated, in whole or in part, with mining activity, as defined in this general permit, to surface waters of the Commonwealth, including to municipal separate storm sewers and non-municipal separate storm sewer.

APPROVAL TO DISCHARGE IN ACCORDANCE WITH THE TERMS AND CONDITIONS HEREIN AND DESCRIBED IN SUPPLEMENTAL INFORMATION AND PLANS APPROVED BY THE DEPARTMENT COMMENCES ON THE DATE OF THE APPROVAL OF COVERAGE, AND IS VALID FOR A PERIOD OF FIVE YEARS WHEN CONDUCTED PURSUANT TO SUCH TERMS AND CONDITIONS. COVERAGE MAY BE EXTENDED BY THE DEPARTMENT IF AN ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOTICE OF INTENT (NOI) RENEWAL IS SUBMITTED TO THE DEPARTMENT AT LEAST 90 DAYS PRIOR TO DATE OF COVERAGE TERMINATION, UNLESS PERMISSION FOR SUBMISSION AT A LATER DATE HAS BEEN GRANTED BY THE DEPARTMENT. THE PERMIT MAY BE TERMINATED PRIOR TO THE EXPIRATION DATE UPON NOTICE TO AND APPROVAL BY THE DEPARTMENT. NO CONDITION OF THIS PERMIT SHALL RELEASE THE OPERATOR FROM ANY RESPONSIBILITY OR REQUIREMENT UNDER PENNSYLVANIA, OR FEDERAL ENVIRONMENTAL STATUTES, AND REGULATIONS OR LOCAL ORDINANCES.

COVERAGE APPROVAL DATE: May 23, 2012

COVERAGE EXPIRATION DATE: May 23, 2012

AUTHORIZED BY:

Michael J. Menghini
Michael J. Menghini

TITLE: District Mining Manager



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATION

**GENERAL NPDES PERMIT FOR STORMWATER DISCHARGES
ASSOCIATED WITH MINING ACTIVITIES**

BMR GP-104

Under the authority of the The Clean Streams Law, 35 P.S. §§ 691.1-691.1001, The Clean Water Act, 33 U.S.C. §§ 1251-1387 and 25 Pa Code Chapters 92 and 102, the Department of Environmental Protection (Department) hereby authorizes, by general permit, subject to the terms, conditions, and criteria set forth as follows, NPDES coverage for stormwater discharges associated with mining activities.

1. DEFINITIONS

Best Management Practices (BMPs) – Activities, facilities, measures, or procedures used to protect and maintain the quality of waters, and existing and designated uses within this Commonwealth. BMPs include E&S Plans, Reclamation Plans, Storm Water Management Act Plans, and other treatment requirements, operating procedures, and practices to control project site runoff, spillage or leaks, and other drainage from the mining activity.

Department – The Department of Environmental Protection ("DEP") of the Commonwealth.

Erosion and Sediment Control Plan ("E&S Plan") – A site-specific plan included with the mining permit or authorization application identifying BMPs to minimize accelerated erosion and sedimentation and which meets the requirements of 25 Pa. Code Chapter 102.

High-quality or Exceptional Value waters ("HQ" or "EV") – Designation given to waters with special protections as defined in 25 Pa. Code § 93.1.

Mining activities – For coal mining activity, this is synonymous with the definition for "Surface mining activities" as found in 25 Pa. Code §§ 87.1 and 88.1. For noncoal mining activity, this is synonymous with the definition for "Noncoal surface mining activities" as found in 25 Pa. Code § 77.1.

NPDES – National Pollutant Discharge Elimination System – The National system for the issuance of permits under section 402 of the Federal Clean Water Act (33 U.S.C.A. § 1342) including a state or interstate program which has been approved in whole or in part by the EPA.

Notice of Intent (NOI) – "The Notice of Intent for Coverage under the Pennsylvania General Permit for Discharges of Stormwater Associated with Mining Activities (BMR GP-104)."

Permittee – Person(s) or entity that has or intends to receive a mining permit.

Point Source – Any discernable, confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, landfill leachate collection system, from which pollutants are or may be discharged.

Operator – Person(s) or entity conducting mining activity that seek to be covered by this general permit or are approved for coverage under this general permit. The operator name must match the "Permittee" in relation to their mining permit or exploration activity approval and also that of "Operator" in the associated mine operator's license.

Reclamation Plan – Approved documentation made part of a permit or exploration notice that describes how the permittee will restore the land surface as required by the appropriate regulations to meet an approved post-mining land use. This plan includes activities such backfilling, regrading, soil stabilization, and revegetation. Once the permittee completes the reclamation plan, reclamation bond(s) are released for a permitted mine site.

Stormwater – Stormwater runoff, snow melt runoff, and surface runoff and drainage.

Stormwater Associated with Mining Activity – The discharge into surface waters of the Commonwealth, municipal separate storm sewers, or non-municipal separate storm sewers from any conveyance which is used for collecting and conveying stormwater and which is related to mining activities. This term does not include stormwater diverted around a mine site provided that the means of diversion does not constitute a point source discharge.

Surface Waters of the Commonwealth – Any and all rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, ponds, springs, wetlands and all other bodies or channels of conveyance of surface water, or parts thereof, whether natural or artificial, within or on the boundaries of this Commonwealth.

2. APPLICABILITY

- a. This general permit applies to earth disturbance activity of one (1) acre or greater associated with mining.
- b. This general permit is issued in conjunction with a separate mining permit where the only potential discharge to surface waters of the Commonwealth will be composed entirely of stormwater, in which the main potential pollutant is sediment. Mining permit types include coal and noncoal mining permits, small noncoal (and bluestone) permits, noncoal mining general permits and exploration activities.
- c. This general permit is not applicable to sites that have an individual NPDES permit or another NPDES general permit.
- d. The general permit will not apply to those activities where one or more of the conditions listed in 25 Pa Code § 92.83 (b)(1)–(9) exist. For those situations, or when otherwise notified by the Department, the operator shall file an application for an individual NPDES permit. An individual NPDES permit is necessary if the associated mining activity will or has the potential to discharge to 'HQ' or 'EV' designated waters, including EV wetlands, or to streams designated as "impaired waters" for sediment.

3. GENERAL INFORMATION AND REQUIREMENTS

- a. Persons proposing to discharge or who are currently conducting mining activity that may discharge stormwater associated with mining activities and persons proposing to expand the scope of previously authorized mining activity which discharges stormwater, who seek to be covered by this general permit, must submit an administratively complete and acceptable Notice of Intent (NOI) to the Department in the care of the appropriate District Mining Office. The NOI shall be filed in accordance with the detailed instructions specified in the NOI instruction package.
- b. In conjunction with this general permit, the same Operator must also be issued an associated mining activity permit or notice of intent to explore under 25 Pa. Code Chapters 77, or Chapters 86-90. Additional information pertinent to this discharge permit may be found in the associated mining permit or notice of intent to explore documentation. The issuance of this permit shall only be valid for licensed mine operators.
- c. All discharges covered by this permit shall be composed entirely of stormwater. Discharges of material other than stormwater must be in compliance with an individual NPDES permit (other than this permit) issued for the discharge. Discharge of sewage, mine drainage, groundwater or industrial waste to an erosion and sediment control BMP is not permitted.
- d. Persons proposing to discharge must complete a Pollution Prevention and Contingency (PPC) Plan as part of the notice of intent or mining permit.

4. EROSION AND SEDIMENTATION PLAN (E&S PLAN)

- a. Operators of all mining activities covered by this general permit shall develop, implement, and maintain erosion and sediment control BMPs and other pollution prevention measures required by this permit.
- b. The BMPs shall be designed to minimize the potential for accelerated erosion and sedimentation in order to protect and maintain water quality and existing and designated uses. Various BMPs and their design standards are listed in the Erosion and Sediment Pollution Control Program Manual, TGD No. 363-2134-008, or an approved alternative, such as the Engineering Manual for Mining Operations, TGD No. 563-0300-101, when authorized. The manuals are available from the Department or can be downloaded from the Department website www.depweb.state.pa.us.

- c. An E&S Plan, which meets the requirements of 25 Pa. Code Ch. 102, must be prepared, developed, and implemented for the mining activity covered by this permit as part of the mining permit or authorization. The E&S Plan approved as part of the mining permit, and the operator's NOI submitted for this general permit are used together to describe the BMPs that are required by this general permit.
- d. The Department may notify the operator at any time that the activities being conducted pursuant to this permit are not meeting the conditions of the permit. Upon plan review or site inspection the Department may require E&S Plan revisions or other appropriate action to ensure compliance with the conditions of this permit.
- e. E&S Plans required under the associated mining permit or authorization are considered reports that shall be available to the public under Section 607 of the Clean Streams Law, and 25 Pa. Code, Chapter 92 of the Department's regulations. The owner or operator of a facility with stormwater discharges covered by this permit shall make E&S plans available to the public upon request. E&S Plans must be made available at the site of the mining activity at all times and available for review by the Department, Conservation District or other authorized local, state, or federal government official.

5. RECLAMATION PLAN

- a. A Reclamation Plan which meets the requirements of the Surface Mining Conservation and Reclamation Act, 52 P.S. §§ 1396.1 et seq., the Noncoal Surface Mining Conservation and Reclamation Act, 52 P.S. §§ 3301 et seq., the Coal Refuse Disposal Control Act, 52 P.S. 30.51 et seq., and 25 Pa. Code Ch. 77 or Ch. 86-90, as applicable, must be prepared, developed, and implemented for the mining activity covered by this permit as part of the mining permit or authorization. The Reclamation Plan approved as part of the mining permit, and the operator's NOI submitted for this general permit, shall describe regrading, revegetation, and other pollution prevention measures that will occur after coal/mineral extraction is complete.
- b. The Reclamation Plan shall be designed to ensure that existing and designated uses of surface water are protected and maintained. The Reclamation plan shall be designed to replicate premining infiltration and runoff conditions to the maximum extent possible, and shall comply with the requirements of §§ 77.521, 87.101 or 88.291. The Reclamation Plan meets the requirements with respect to the Post-construction Stormwater Management Plan (PCSM Plan) as described in 25 Pa. Code Chapter 102.

6. ADMINISTRATIVE REQUIREMENTS

- a. The authorization to use this general permit shall continue for 5 years upon which the operator may renew the coverage for another 5 years (in association with a mining permit only) until any reclamation is completed and the site is stabilized. The operator must request, in writing, termination of coverage under this GP if termination does not coincide with bond release or expiration date of the coverage.
- b. Any person authorized under this permit may be required to apply for an Individual NPDES permit through written notice by the Department. This notice shall include the following: (1) a brief statement of the reasons for the decision, (2) an application form for an Individual NPDES permit, and (3) a statement setting a 90 day deadline for the owner or operator to file the application.
- c. Persons requesting a renewal of coverage under this general permit must submit to the Department an administratively complete and acceptable NOI, at least 90 days prior to the expiration date of the coverage, unless permission has been granted by the Department for submission at a later date. In the event that a timely, administratively complete, and acceptable application for renewal of coverage has been submitted and the Department is unable, through no fault of the operator, to reissue the approval for coverage before the expiration date of the approved coverage, the terms and conditions of the approved coverage will be automatically continued and will remain fully effective and enforceable pending the issuance or denial of the renewal of coverage, provided the operator is, and has been, operating in compliance with the terms and conditions of the permit.
- d. No condition of this permit shall release any person from any responsibility or requirements under other federal or Pennsylvania environmental statutes or regulations or local ordinances.
- e. This approval to operate under the general permit is not transferable.
- f. Where all stormwater discharges authorized under this approval are eliminated and the permittee's Reclamation Plan is completed, coverage under this general permit is terminated.

The General NPDES Permit for Stormwater Discharges Associated with Mining Activities BMR GP-104 is issued October 18, 2010 and shall expire at midnight October 18, 2015 unless reissued on or before this date by the Department.

BY 
DIRECTOR
BUREAU OF MINING AND RECLAMATION

PART A
EFFLUENT LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

1. EFFLUENT LIMITATIONS

This permit establishes effluent limitations in the form of implemented BMPs identified in the associated E&S Plan, Reclamation Plan and the NOI for this general permit. These BMPs restrict the rates and quantities of stormwater runoff and associated pollutants from being discharged into surface waters of the Commonwealth.

BMPs must be consistent with Section 4.b. of this permit (Erosion and Sedimentation Plan).

For any point source discharges, the following limits apply:

Parameter	30-day average	Daily Maximum	Instantaneous Maximum
Total Suspended Solids	35 mg/l	70 mg/l	90 mg/l
Total Settleable Solids	0.5 ml/l Instantaneous Maximum (Sampled within 24 hrs of a precipitation event, in lieu of total suspended solids.)		
Any discharges resulting from a precipitation event exceeding a 10-yr, 24 hr. precipitation event are not subject to total suspended or settleable solids requirements.			
pH	Greater than 6.0; less than 9.0		

2. MONITORING AND REPORTING REQUIREMENTS

a. Visual Inspections

The operator must ensure that visual site inspections are conducted weekly while operating, monthly if not operating, and after each 10 yr 24-hr precipitation event by qualified personnel, trained and experienced in erosion and sediment control, to ascertain that the Erosion and Sediment Control (E&S) BMPs are operational and effective in preventing pollution to the waters of the Commonwealth. A written report of each inspection shall be kept, and include:

- (1) a summary of site conditions, E&S BMP's, and compliance; and
- (2) the date, time, and the name of the person conducting the inspection.

b. Non-compliance Reporting

Where E&S BMP's are found to be inoperative or ineffective during an inspection, or any other time, the operator shall immediately contact the Department (the appropriate District Mining Office), followed by the submission of a written report within 5 days of the initial contact. Non-compliance reports shall include the following information:

- (1) any condition on the project site which may endanger public health, safety, or the environment, or involve incidents which cause or threaten pollution;
- (2) the period of non-compliance, including exact dates and times and/or anticipated time when the activity will return to compliance;
- (3) steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance; and
- (4) the date or schedule of dates, and identifying remedies for correcting non-compliance conditions.

c. Testing Requirements

For those permits with a point source discharge, a grab sample must be taken during a discharge at every point source outfall at least once per year and at any time requested by the Department in order to establish that the BMPs are in good working order. The samples must be analyzed for pH, total suspended solids and total settleable solids. The results must be submitted to the District Mining Office and must contain the permittee name, mining permit number, operation name, township, county, date of sample and results. The original reporting sheets from the testing laboratory must be included.

d. Supplemental Monitoring

The Department reserves the right to require additional monitoring where a danger of water pollution is present, or water pollution is suspected to be occurring from a mining activity subject to this general permit, or for any reason in accordance with, 25 Pa. Code § 92.41. The operator shall commence such monitoring upon notification from the Department. Monitoring results shall be submitted to the Department upon request.

3. **RECORD KEEPING**

The operator shall retain records of all monitoring information including copies of all monitoring and inspection reports required by this permit, and records of data used to complete the Notice of Intent for this permit, for a period of three years from the date of the termination of coverage under this permit.

PART B: Mandated Standard Conditions for NPDES permits

1. Definitions

The following definitions apply within this permit. Appropriate reference citations are given from 40 CFR as noted.

- (a) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. 122.41(m)(1)(i)
- (b) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. 122.41(m)(1)(ii)
- (c) "Average monthly" discharge limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. 122.2
- (d) "Maximum daily" discharge limitation means the highest allowable "daily discharge." 122.2
- (e) "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "Daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. 122.2
- (f) "Average" refers to the use of an arithmetic mean, unless otherwise specified in this permit. 122.41(l)(4)(iii)
- (g) "Instantaneous Maximum" means the level not to be exceeded at any time in any grab sample.
- (h) "Composite Sample" means a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval (for constant volume samples) is proportional to the flows rates, over the time period used to produce the composite.

The maximum time period between individual samples shall not exceed two hours, except that for wastes of a uniform nature the samples may be collected on a frequency of at least twice per working shift and shall be equally spaced over a 24-hour period (or over the operating day if flows are of a shorter duration).
- (i) "Grab Sample" means an individual sample collected at a randomly-selected time over a period not to exceed 15 minutes.
- (j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.
- (k) "At Outfall XXX" means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line XXX, or where otherwise specified.
- (l) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- (m) "Toxic Pollutant" means any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act. 122.2
- (n) "Hazardous Substance" means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. 122.2

2. Standard federal conditions

40 CFR Sec.122.41 and 122.42 requires that the following conditions are applied to all permits.

- (a) *Duty to comply.* The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
- (1) The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
- (2) The Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Clean Water Act provides that any person who *negligently* violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than 2 years, or both. Any person who *knowingly* violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
- (3) Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
- (b) *Duty to reapply.* If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- (c) *Need to halt or reduce activity not a defense.* It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (d) *Duty to mitigate.* The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (e) *Proper operation and maintenance.* The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- (f) *Permit actions.* This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

- (g) *Property rights.* This permit does not convey any property rights of any sort, or any exclusive privilege.
- (h) *Duty to provide information.* The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
- (i) *Inspection and entry.* The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department, EPA or County Conservation District), upon presentation of credentials and other documents as may be required by law, to:
- (1) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - (4) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.
- (j) *Monitoring and records.*
- (1) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - (2) Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.
 - (3) Records of monitoring information shall include:
 - (i) The date, exact place, and time of sampling or measurements;
 - (ii) The individual(s) who performed the sampling or measurements;
 - (iii) The date(s) analyses were performed;
 - (iv) The individual(s) who performed the analyses;
 - (v) The analytical techniques or methods used; and
 - (vi) The results of such analyses.
 - (4) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 unless another method is required under 40 CFR subchapters N or O.
 - (5) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.
- (k) *Signatory requirement.*
- (1) All applications, reports, or information submitted to the Department shall be signed and certified. (See §122.22)
 - (2) The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(l) *Reporting requirements.*

- (1) *Planned changes.* The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - (i) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in §122.29(b); or
 - (ii) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under §122.42(a)(1).
 - (iii) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
- (2) *Anticipated noncompliance.* The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (3) *Transfers.* This permit is not transferable to any person except after notice to the Department. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (See §122.61; in some cases, modification or revocation and reissuance is mandatory.)
- (4) *Monitoring reports.* Monitoring results shall be reported at the intervals specified elsewhere in this permit:
 - (i) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Department for reporting results of monitoring of sludge use or disposal practices.
 - (ii) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Department.
 - (iii) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Department in the permit.
- (5) *Compliance schedules.* Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- (6) *Twenty-four hour reporting.*
 - (i) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - (ii) The following shall be included as information which must be reported within 24 hours under this paragraph:
 - (A) Any unanticipated bypass which exceeds any effluent limitation in the permit. (See §122.41(g).)
 - (B) Any upset which exceeds any effluent limitation in the permit.
 - (C) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours. (See §122.44(g).)
 - (iii) The Department may waive the written report on a case-by-case basis for reports under paragraph (l)(6)(ii) of this section if the oral report has been received within 24 hours.
- (7) *Other noncompliance.* The permittee shall report all instances of noncompliance not reported under paragraphs (l)(4), (5), and (6) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (l)(6) of this section.

- (8) *Other information.* Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

(m) *Bypass.*

(1) *Definitions.*

- (i) *Bypass* means the intentional diversion of waste streams from any portion of a treatment facility.
- (ii) *Severe property damage* means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

- (2) *Bypass not exceeding limitations.* The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (m)(3) and (m)(4) of this section.

(3) *Notice.*

- (i) *Anticipated bypass.* If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- (ii) *Unanticipated bypass.* The permittee shall submit notice of an unanticipated bypass as required in paragraph (l)(6) of this section (24-hour notice).

(4) *Prohibition of bypass.*

- (i) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (C) The permittee submitted notices as required under paragraph (m)(3) of this section.
- (ii) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph (m)(4)(i) of this section.

(n) *Upset.*

- (1) *Definition.* *Upset* means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (2) *Effect of an upset.* An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (n)(3) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- (3) *Conditions necessary for a demonstration of upset.* A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (i) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (ii) The permitted facility was at the time being properly operated; and
 - (iii) The permittee submitted notice of the upset as required in paragraph (l)(6)(ii)(B) of this section (24 hour notice).
- (iv) The permittee complied with any remedial measures required under paragraph (d) of this section.

- (4) *Burden of proof.* In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof. (Clean Water Act (33 U.S.C. 1251 *et seq.*), Safe Drinking Water Act (42 U.S.C. 300f *et seq.*), Clean Air Act (42 U.S.C. 7401 *et seq.*), Resource Conservation and Recovery Act (42 U.S.C. 6901 *et seq.*)) [48 FR 14153, Apr. 1, 1983, as amended at 48 FR 39620, Sept. 1, 1983; 49 FR 38049, Sept. 26, 1984; 50 FR 4514, Jan. 31, 1985; 50 FR 6940, Feb. 19, 1985; 54 FR 255, Jan. 4, 1989; 54 FR 18783, May 2, 1989; 65 FR 30908, May 15, 2000; 72 FR 11211, Mar. 12, 2007]
- (o) *Existing manufacturing, commercial, mining, and silvicultural dischargers.* In addition to the reporting requirements above, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:
- (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (i) One hundred micrograms per liter (100 µg/l);
 - (ii) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with §122.21(g)(7); or
 - (iv) The level established by the Department in accordance with §122.44(f).
 - (2) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (i) Five hundred micrograms per liter (500 µg/l);
 - (ii) One milligram per liter (1 mg/l) for antimony;
 - (iii) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with §122.21(g)(7).
 - (iv) The level established by the Department in accordance with §122.44(f).

3. Standard State Conditions

25 PA Code 92.51 requires that the following conditions are applied to all permits.

- (a) All discharges authorized by the NPDES permit shall be consistent with the terms and conditions of the permit; that facility expansions, production increases or process modifications which result in new or increased discharges of pollutants shall be reported by submission of a new application or, if the discharge does not violate effluent limitations specified in the NPDES permit, by submission to the Department of notice of the new or increased discharges of pollutants, that the discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by the permit shall constitute a violation of the terms and conditions of the permit.
- (b) The permit may be modified, suspended or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - (1) Violation of any terms or conditions of the permit.
 - (2) Obtaining a permit by misrepresentation or failure to disclose fully relevant facts.
 - (3) A change in a condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.
- (c) The permittee shall allow the Department or an authorized representative, upon presentation of that representative's credentials, to:
 - (1) Enter upon permittee's premises in which an effluent source is located or in which records are required to be kept under terms and conditions of the permit.
 - (2) Have access to and copy records required to be kept under terms and conditions of the permit.
 - (3) Inspect monitoring equipment or method required in the permit.

- (4) Sample a discharge of pollutants.
- (d) The permittee shall maintain in good working order and operate as efficiently as possible facilities or systems of control installed by the permittee to achieve compliance with the terms and conditions of the permit.
- (e) If a toxic effluent standard or prohibition, including any schedule of compliance specified in the effluent standard or prohibition, is established under section 301(b)(2)(C) or (D), 304(b) or 307(a) of the Federal Act (33 U.S.C.A. §§ 1311(b)(2)(C) or (D), 1314(b) or 1317(a)) for a toxic pollutant which is present in the permittee's discharge and the standard or prohibition is more stringent than any limitation upon the pollutant in the NPDES permit, the Department will revise or modify the permit in accordance with the toxic effluent standard or prohibition and so notify the permittee.
- (f) The discharger may not discharge floating materials, oil, grease, scum, foam, sheen and substances which produce color, taste, turbidity or settle to form deposits in concentrations or amounts sufficient to be, or creating a danger of being, inimical to the water uses to be protected or to human, animal, plant or aquatic life.
- (g) Dischargers must comply with applicable water quality standards.

5600-FM-MR0135 Rev. 6/2001

PART C

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATIONNONCOAL
AUTHORIZATION TO MINENumber 16848-7874SM1-02under issued SMP Number 7874SM1C2

PERMITTEE NAME	Total Recycling Corp. dba Total Recycling Resources	ISSUANCE DATE	May 23, 2012
AND ADDRESS	PO Box 90674	MUNICIPALITY	Hanover Township
	Allentown, PA 18109-0674	COUNTY	Lehigh
NAME OF OPERATION	Fullerton Slag Bank		

TYPE OF OPERATION

- ☒ Noncoal Surface Mine
- ☐ Surface Activity Connected with Underground Mining (Noncoal)
- ☐ Other _____

- A. Permittee is hereby authorized to conduct noncoal mining activities on lands of J.O. Krapf & Sons situated in Hanover Township, Lehigh County. Surface owners' consent is attested to by inclusion of a properly executed Consent of Landowner form submitted in support of this approval.
- B. Surface noncoal mining activities are limited to the area designated as BL #02 in the map submitted by Alchemy Development, LLC dated January 2012 in support of the request for this Mining Authorization, which covers 22.7 acres acres.
- C. The maximum allowed depth of slag excavation shall not extend below the elevation of pit floor which is 250 feet MSL. The maximum length of highwall allowed is N/A - slag bank removal.
- D. Bond Description
- ☒ Original Bond \$22,700 ☒ Additional Bond \$71,232.08
- ☐ Surety Bond No. _____ in Amount of _____ with _____ as surety.
- ☒ Collateral Bonds dated 1/6/06 & 2/3/12 the in Amounts of \$22,700 & \$71,232.80 supported by CD #36692 & 68766.
- ☐ PILB
- ☐ Additional Remarks:
- E. The approved erosion and sediment control facility related to the area to be mined in accordance with this authorization must be constructed in accordance with the approved plan. These facilities shall be certified to the Department by a qualified registered professional engineer (where required by Chapter 105) or by a qualified registered land surveyor prior to the commencement of other noncoal mining activities in this area.
- F. The attached sheet contains four (4) additional special conditions or requirements relating to this authorization.

cc: Licensing & Bonding
Chris Kuba, SMCI
Alchemy Dev., LLC
File

By:

Michael J. Menghini
Michael J. Menghini
Title: District Mining Manager

For the Department of Environmental Protection

7874SM1

ADDITIONAL SPECIAL CONDITIONS AND/OR REQUIREMENTS:

1. The limits of mining and/or support area(s) approved by this permit are to be field marked and shall remain marked for the duration of mining and reclamation activity.
2. This Authorization to Mine replaces and supersedes all previously issued Authorizations.
3. A maximum of 22.7 acres with a total financial reclamation responsibility of \$93,932.80 is authorized to be affected at any time as outlined below:

Backfilling (< 500') (cu. yds.)	0.00	\$0.80	\$0.00
Reclaim Unconsolidated Material (ac.) (Includes Revegetation)	22.70	\$1,600.00	\$36,320.00
Spoil Storage/Earthmoving (cu. Yds.)	60,000	\$0.90	\$54,000.00
Subtotal	-	-	\$90,320.00
Mob/Demob (4% of Subtotal)	1.00	\$3,612.80	\$3,612.80
TOTAL	-	-	\$93,932.80

4. Part B – Special Conditions are also applicable to this Authorization to Mine.

Exhibit 12: Sample Transportation and Disposal Notification

Subject: Project #xxxx Example Development, Example, PA Transport and Disposal Notification for (Example Date)

This is a transportation notification/confirmation for a project. It is intended as a courtesy and does not represent substantive information with respect to the project. Information contained herein should be verified by telephone. Further, receipt of this notice does not guarantee acceptance into the referenced facility.

PJT #	SITE ADDRESS	MATERIAL	FACILITY	TRUCKER	# TRUCKS	RDS	START TIME	COMPANY MANAGING	JOB TYPE
xxxx	Example Development	Example	TRC	Example	x	x	Example Start time	Example	Example code

This email is intended to be reviewed in HTML format. If your device is unable to accept HTML formatted email, please notify accordingly.

Lead Coordinator

IMPACT ENVIRONMENTAL – *welcome to solid ground...*
www.impactenvironmental.com

Corporate Headquarters
170 Keyland Court | Bohemia | NY | 11716
T | 631.269.8800 F | 631.269.1599 C|631.524.7863

This transmission and any attachments, or documents accompanying this transmission contain information that is confidential and/or privileged. The information is intended only for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, you are hereby notified that any action in reliance on the contents of this transmission is strictly prohibited and that the document(s) along with this transmission should be returned to the sender immediately and deleted immediately from your device.

Exhibit 13: Transportation Charter

Transportation Charter / Manifest

Generator:

1

Authorized By (print)

Authorized By (title)

Authorized By (sig)

Transporter:

2

Driven By

Truck/Trailer Plate

Driver Signature

Receiving Facility:

3

Received By (print)

Date/Time

Driven By (sig)

Material(s):

Note(s):

Project under the management of
Impact Environmental. In case of
emergency call 631-269-8800 or
516-805-8900



Manifest
Number

1764

TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT _____

NET TONS _____ TARE WEIGHT _____

TICKET NUMBER _____

Exhibit 14: Licensed Scale Operators

Employee	Location	Start Date	End Date	Weighmaster Certificate #
McKittrick, Maria	Palmerton	10/31/2012	Current	Pending
Larson, Glenn	Palmerton/Linden	4/15/2011	Current	73241
Buss, Shirley	Total Recycling Corp	9/17/2008	Current	69751
Fly, Richard	Total Recycling Corp	4/6/2011	Current	73115
Krapf, Howard	Total Recycling Corp	4/8/2007	Current	67908
Krapf, Kay	Total Recycling Corp	4/15/2007	Current	67907
Krapf, Randy	Total Recycling Corp	4/15/2007	Current	67909
Krapf, Wayne	Total Recycling Corp	3/15/2011	Current	72979
Krapf, Sherry	Total Recycling Corp	4/18/2011	Current	70519
Krapf, Wayne	Total Recycling Corp	3/5/2011	Current	72979
Skrapits, Stephen	Total Recycling Corp	4/18/2007	Current	67906

AAQ-1 (REV 01/02)

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF AGRICULTURE

BUREAU OF STANDARD WEIGHTS & MEASURES

REGISTRATION FOR:

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.:

LICENSE NO: 067906

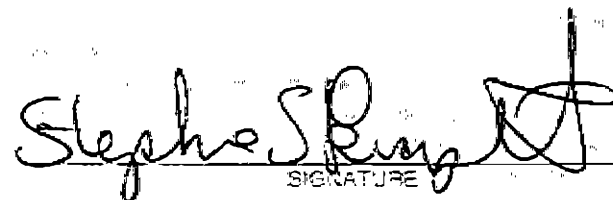
FEE: 60.00

TERMINATION DATE:

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

STEPHEN SKRAPITS
TOTAL RECYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109


SIGNATURE

NOT TRANSFERABLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

REGISTRATION FOR:

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.

LICENSE NO: 067906

FEE: 60.00

TERMINATION DATE:

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

STEPHEN SKRAPITS
TOTAL REYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109


SIGNATURE

NOT TRANSFERABLE

AAO-1A (11/01)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards
HARRISBURG, PA 17110-9408

4/9/2009 11:13:44 AM

Public Weighmaster License for Scale 99368

License# 67906

Expires: 5/1/2011

TOTAL RECYCLING RESOURCES

1820 DAUPHIN ST

ALLENTOWN PA

STEPHEN SKRAPITS

TOTAL REYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT REASONABLE

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AAO-1A (11-01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

4/1/2011 7:04:50 AM

HARRISBURG, PA 17110-9108

Public Weighmaster License for Scale 99368

TOTAL RECYCLING RESOURCES

License # 67906

1820 DAUPHIN ST

Expires : 5/1/2013

ALLENTOWN PA

STEPHEN SKRAPITS

TOTAL REYCLING RESOURCES

PO BOX 90874

ALLENTOWN PA 18109

SIGNATURE

NOT
TRANSFERABLE

AAO-1A (11-01)

License

COMMONWEALTH OF PENNSYLVANIA

4/11/2011 7:54:59 AM

DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 99368

TOTAL RECYCLING RESOURCES

License # 67906

1820 DAUPHIN ST

Expires : 5/1/2013

ALLENTOWN PA

STEPHEN SKRAPITS

TOTAL REYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

NOT TRANSFERABLE

SIGNATURE

AAO-1 (REV 01/02)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

REGISTRATION FOR:

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.:

LICENSE NO: 067907

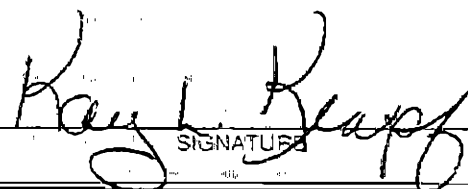
FEE: 60.00

TERMINATION DATE:

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

KAY L KRAPF
TOTAL RECYCLING RESOURCES
P O BOX 90674
ALLENTOWN PA 18109


SIGNATURE

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

NOT
TRANSFERABLE

REGISTRATION FOR

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.:

LICENSE NO: 067907

FEE: 60.00

TERMINATION DATE:

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

KAY L KRAPF
TOTAL RECYCLING RESOURCES
P O BOX 90674
ALLENTOWN PA 18109

SIGNATURE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-6008

Public Weighmaster License for Scale 99369
License # 67907
Expires: 5/1/2011

TOTAL RECYCLING RESOURCES
1820 DAUPHIN ST
ALLENTOWN PA

KAY L KRAFF

TOTAL RECYCLING RESOURCES

P O BOX 90674

ALLENTOWN PA 18109

AAO 1A (11.01)

12/06

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

4/1/2011 7:02 AM

HARRISBURG, PA 17110-9108

Public Weighmaster License for Scale 99369

TOTAL RECYCLING RESOURCES

License # 67907

1820 DAUPHIN ST

Expires: 5/1/2013

ALLENTOWN PA

KAY L KRAFF

TOTAL RECYCLING RESOURCES

P O BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT TRANSFERABLE

AAQ-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA

4/11/2011 7:58:10 AM

DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 99369

TOTAL RECYCLING RESOURCES

License # 67907

1820 DAUPHIN ST

Expires : 5/1/2013

ALLENTOWN PA

KAY L KRAPF

TOTAL RECYCLING RESOURCES

P O BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT TRANSFERABLE

AAQ-1 (REV 01/02)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

REGISTRATION FOR:

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.:

LICENSE NO: 067908

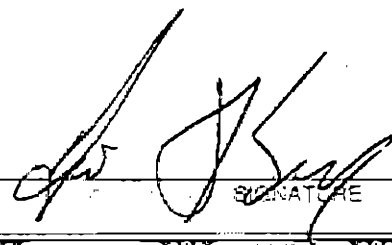
FEE: 60.00

TERMINATION DATE:

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

HOWARD J KRAPF
TOTAL RECYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109


SIGNATURE

NOT REISSUABLE

AAO-1 (REV 01-02)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

REGISTRATION FOR

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.:

LICENSE NO: 067908

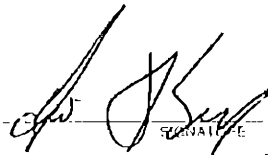
FEE: 60.00

TERMINATION DATE

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

HOWARD J KRAPF
TOTAL RECYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109


SIGNATURE

NOT TRANSFERABLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-2400

Public Weighmaster License for Scale 99370

License # 67908

Expires: 5/1/2011

TOTAL RECYCLING RESOURCES

1820 DAUPHIN ST

ALLENTOWN PA

HOWARD J KRAPP

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

2011-05-01 11:11:11 AM

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

REGISTRATION FOR:

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO.:

LICENSE NO: 067909

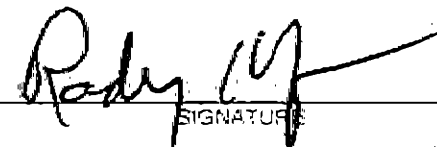
FEE: 60.00

TERMINATION DATE:

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

RANDY A KRAPF
TOTAL RECYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109


SIGNATURE

NOT REPRODUCIBLE

AAO-1 (REV 01/02)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF STANDARD WEIGHTS & MEASURES

NOT
TRANSFERABLE

REGISTRATION FOR

LICENSE FOR: PUBLIC WEIGHMASTER

EXPIRATION DATE: 05/04/2009

REGISTRATION NO

LICENSE NO: 067909

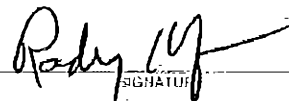
FEE: 60.00

TERMINATION DATE

EMPLOYER: TOTAL RECYCLING RESOURCES

SCALE LOCATION: 1820 DAUPHIN ST
ALLENTOWN PA

RANDY A KRAPF
TOTAL RECYCLING RESOURCES
PO BOX 90674
ALLENTOWN PA 18109


SIGNATURE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-3000

Public Weighmaster License for Scale 99371

License # 67909

Expires 5/1/2011

TOTAL RECYCLING RESOURCES

1820 DAUPHIN ST

ALLENTOWN, PA

RANDY A KRAPF

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

APG-1A (11/91)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

4/11/2011 1:55:30 PM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 99371 TOTAL RECYCLING RESOURCES

License # 67909

1820 DAUPHIN ST

Expires: 5/1/2013

ALLENTOWN PA

RANDY A KRAPP

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

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AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

4/11/2011 7:55:29 AM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 99371 TOTAL RECYCLING RESOURCES

License # 67909

1820 DAUPHIN ST

Expires: 5/1/2013

ALLENTOWN PA

RANDY A KRAPP

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT TRANSFERABLE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF AGRICULTURE

Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-8408

10/15/2008 12:22:33 PM

Public Weighmaster License for Scale 101247 TOTAL RECYCLING

License # 69751

1820 DAUPHIN ST

Expires : 10/1/2010

ALLENTOWN

SHIRLEY BUSS

TOTAL RECYCLING

PO BOX 90674

ALLENTOWN PA 18109

Shirley Buss

SIGNATURE

AAO-1A (1/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards
HARRISBURG, PA 17110-9408

10/15/2008 12:22:33 PM

Public Weighmaster License for Scale 101247 TOTAL RECYCLING

License # 69751

1820 DAUPHIN ST

Expires: 10/1/2010

ALLENTOWN

SHIRLEY BUSS

TOTAL RECYCLING

PO BOX 90674

ALLENTOWN PA 18109

Shirley Buss
SIGNATURE

NOT
TRANSFER-
ABLE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA

9/10/2010 9:08:05 AM

DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 101247 TOTAL RECYCLING

License # 69751

1820 DAUPHIN ST

Expires : 10/1/2012

ALLENTOWN

SHIRLEY BUSS

TOTAL RECYCLING

PO BOX 90674

ALLENTOWN PA 18109

NOT TRANSFERABLE


SIGNATURE

AAO-1A (11/01)
License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

9/10/2010 9:08:05 AM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 101247 TOTAL RECYCLING

License # 69751

1820 DAUPHIN ST

Expires : 10/1/2012

ALLENTOWN

SHIRLEY BUSS

TOTAL RECYCLING

PO BOX 90674

ALLENTOWN PA 18109

Shirley Buss
SIGNATURE

NOT TRANSFERABLE

AAO-1A (11/01)
License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 101247 TOTAL RECYCLING
License # 69751 1820 DAUPHIN ST
Expires: 10/1/2014 ALLENTOWN

SHIRLEY BUSS
TOTAL RECYCLING
PO BOX 90674
ALLENTOWN PA 18109

SIGNATURE

NOT TRANSFERABLE

Public Weighmasters Subchapter C of Act 155 of 1996
Online URL: <http://www.pda.state.pa.us/weighmasterlegal>
Follow the link to view Title 3 Pa.C.S.A. AGRICULTURE
Part VI. DEVELOPMENT, MARKETING AND PROMOTION,
Chapter 41, and then click
SUBCHAPTER C. PUBLIC WEIGHMASTERS

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards
HARRISBURG, PA 17110-9408

6/22/2010 12:41:37 PM

Public Weighmaster License for Scale 102046 TOTAL RECYCLING RESOURCES

License # 70519

1820 DAUPHIN SE

Expires : 5/1/2011

ALLENTOWN

SHERRY KRAPF

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

NOT
TRANSFERABLE

Sherry Krapf
SIGNATURE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

5/4/2011 2:16:30 PM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 102046 TOTAL RECYCLING RESOURCES

License # 70519

1820 DAUPHIN SE

Expires : 5/1/2013

ALLENTOWN

SHERRY KRAPP

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT TRANSFERABLE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

5/4/2011 2:16:30 PM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 102046 TOTAL RECYCLING RESOURCES

License # 70519

1820 DAUPHIN SE

Expires : 5/1/2013

ALLENTOWN

SHERRY KRAPP

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

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AAQ-1A (11-01)

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-9408

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Public Weighmaster License for Scale 102046 TOTAL RECYCLING RESOURCES

License # 70519

1820 DAUPHIN SE

Expires: 5/1/2013

ALLENTOWN

SHERRY KRAPF

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT
TRANSFERABLE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

4/21/2011 8:00:09 AM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 104885 TOTAL RECYCLING RESOURCES

License # 72979

Expires: 4/1/2013

1820 N DAUPHIN ST

ALLENTOWN PA 18109

WAYNE R KRAPP

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

NOT
TRANSFERABLE

SIGNATURE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

5/17/2011 4:07:58 PM

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 105038 TOTAL RECYCLING RESOURCES

License # 73115

1820 N DAUPHIN ST

Expires: 5/1/2013

ALLENTOWN PA 18109

RICHARD K FLY

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

SIGNATURE

NOT
TRANSFERABLE

AAO-1A (11/01)

License

COMMONWEALTH OF PENNSYLVANIA

5/17/2011 4:07:56 PM

DEPARTMENT OF AGRICULTURE
Bureau of Ride & Measurement Standards

HARRISBURG, PA 17110-9408

Public Weighmaster License for Scale 105038 TOTAL RECYCLING RESOURCES

License # 73115

1820 N DAUPHIN ST.

Expires: 5/1/2013

ALLENTOWN PA 18109

RICHARD K FLY

TOTAL RECYCLING RESOURCES

PO BOX 90674

ALLENTOWN PA 18109

NOT TRANSFERABLE

SIGNATURE

Impact Recovery and Reuse Center



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

MAIL CODE 401-02C

Solid & Hazardous Waste Management Program

P.O. Box 420

Trenton, New Jersey 08625-0420

Telephone: (609) 292-9880 Telecopier: (609) 984-0565

<http://www.state.nj.us/dep/dshw>

CHRIS CHRISTIE

Governor

KIM GUADAGNO

Lt. Governor

BOB MARTIN

Commissioner

November 15, 2012

Richard Parrish, President
Impact Environmental Consulting, Inc.
170 Keyland Court
Bohemia, NY 11716

Re: Recycling Center Class B General Approval Renewal
Impact Reuse & Recovery Center
Block 235, Lots 4 & 5
City of Lyndhurst, Bergen County
Facility No. 131888
Permit No.: CBG110003

Dear Mr. Parrish:

The Bureau of Transfer Stations and Recycling Facilities (the Bureau) is in receipt of a Recycling Center General Approval renewal application received on February 7, 2012 and modification request dated June 25, 2012 for the above referenced facility.

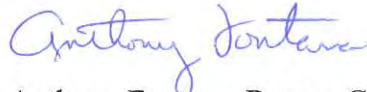
The Bureau has completed a review of the application to determine if the submittal is administratively complete pursuant to N.J.A.C. 7:26A-3.5. Upon review, the Bureau has determined the application for renewal with modifications of the Recycling Center General Approval is ADMINISTRATIVELY COMPLETE.

In addition, all conditions of the existing General Approval for the facility will remain effective pursuant to N.J.S.A. 52:14B-11 until such time that the Bureau reaches a final decision on the issuance of the General Approval Renewal with modifications document.

Please be advised that in accordance with N.J.A.C. 7:26A-3.2(d), you are required to provide a copy of the entire application package to the Recycling Coordinator and Borough Clerk for their respective review.

If you have any questions concerning this matter, please contact Joseph Staab my staff at (609) 984-2209, or by email at joseph.staab@dep.state.nj.us.

Sincerely,



Anthony Fontana, Bureau Chief
Bureau of Transfer Stations &
Recycling Facilities

- c: Tom Farrell, Acting Chief, Bureau of SW Compliance & Enforcement
Mary Siller, Bureau of SW Compliance & Enforcement
Bruce Witkowski, Section Supervisor, BTS&RF
Richard Wierer, Bergen County Solid Waste Coordinator
Mark Vangieri, Bergen County Recycling Coordinator
Maureen Kelly, Bergen County Health Department
Tom Marturano, NJMC Solid Waste Coordinator
Helen Polito, Lyndhurst Municipal Clerk

**State of New Jersey****DEPARTMENT OF ENVIRONMENTAL PROTECTION**
Mail Code 401-2C

Solid & Hazardous Waste Management Program

P.O. Box 420 401 East State Street

Trenton, New Jersey 08625-0420

Telephone: (609) 633-1418 Telecopier: (609) 633-9839

<http://www.state.nj.us/dep/dshw>CHRIS CHRISTIE
GovernorKIM GUADAGNO
Lt. GovernorBOB MARTIN
Commissioner**RECYCLING CENTER GENERAL APPROVAL
FOR CLASS B RECYCLABLE MATERIALS**

Under the provisions of N.J.S.A. 13:1E-1 et seq. and N.J.S.A. 13:1E-99.11 et seq., known as the Solid Waste Management Act and New Jersey Statewide Mandatory Source Separation and Recycling Act, respectively, and pursuant to N.J.A.C. 7:26A-1 et seq., known as the Recycling Regulations, this approval is hereby issued to:

Impact Reuse and Recovery Center

Facility Type:	Recycling Center for Class B Materials
LOT NO.(S):	4 & 5
BLOCK NO.:	235
MUNICIPALITY:	Lyndhurst
COUNTY:	Bergen
FACILITY REGISTRATION NO.:	131888
Permit No.:	CBG110002

This General Approval is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection (Department).

This General Approval shall not prejudice any claim the State may have to riparian land nor does it allow the registrant to fill or alter, or allow to be filled or altered, in any way, lands that are deemed to be riparian, wetlands, stream encroachment or flood plains, or within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department.

July 13, 2007

Issuance Date

December 12, 2011

Transfer of Ownership Approval

May 7, 2012

Expiration Date

Anthony Fontana, Chief
Bureau of Transfer Stations and
Recycling Facilities

Scope of Approval

This General Approval (approval), along with the referenced application documents herein specified, shall constitute the sole approval of Recycling Center operations for Class B Recyclable Material (Concrete, Concrete Block, Brick, Asphalt, Cinder Block, Ceramic, Tile, Asphalt Millings, Porcelain, Plaster, and Terra Cotta) by Impact Environmental Consulting, Inc. (holder) headquartered in Bohemia, New York. Any registration, approval or permit previously issued by the Solid and Hazardous Waste Program, or its predecessor agencies, for the specific activities as described below and as conditioned herein, is hereby superseded.

Regulated Activities at the Facility

Items 1 through 39 of this approval contain the general conditions applicable to all recycling centers. Items 40 through 65 of this approval contain the general operating requirements applicable to the Class B recyclable material.

Facility Description

The recycling center is a Class B facility operated by Impact Environmental Consulting, Inc. The recycling center is located on Page Ave. and Schuyler Ave., Block 235, Lots 4 and 5, in Lyndhurst, Bergen County. This regional recycling center receives concrete, concrete block, brick, asphalt, cinder block, ceramic, tile, asphalt millings, porcelain, plaster, and terra cotta from demolition contractors, manufacturers and municipalities. The recycling center is authorized to accept and process the above materials 7:00 a.m. to 5:00 p.m., Monday through Friday and 7:00 a.m. to 3:00 p.m., Saturday.

The recycling center is also utilized for finished product storage and equipment storage as shown on the site plan. The recycling center markets sub-base, road-base and backfilling material from the site.

Approved General Approval Application and Associated Documents

The registrant shall construct and operate the facility in accordance with N.J.A.C. 7:26A-1 *et seq.*, the conditions of this Approval, and the following documents:

- (1) Site Plan: prepared by Seasons Contracting Corp. for Redrock Land Development, LLC, signed and sealed by Darrell F. Alvarez, P.E., dated September 1, 2000, last revised October 15, 2001.
- (2) Redrock Land Development, LLC., - Application for General Class B Recycling Center Approval, prepared and signed by Anthony J. Cavalier of Cavalier Environmental Compliance Services, Inc., dated July 19, 2001.
- (3) Redrock Land Development, LLC., - Letter and attachments, prepared and signed by Anthony J. Cavalier of Cavalier Environmental Compliance

Services, Inc., dated October 29, 2001.

- (4) Redrock Land Development, LLC., - Letter, prepared and signed by Anthony J. Cavalier of Cavalier Environmental Compliance Services, Inc., dated November 13, 2001.
- (5) Redrock Land Development, LLC., - Letter, prepared and signed by Anthony J. Cavalier of Cavalier Environmental Compliance Services, Inc., dated February 14, 2007.
- (6) Transfer of Ownership Application dated August 26, 2011 prepared by Richard Parrish, President of Impact Environmental Consulting, Inc.

In case of conflict, the provisions of N.J.A.C. 7:26A-1 *et seq.* shall have precedence over the conditions of this Approval, and the conditions of this Approval shall have precedence over plans and specifications listed above.

IMPACT ENVIRONMENTAL CONSULTING INC
131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report

Subject Item: PI 131888 -

1. All persons issued a general approval to operate a recycling center for Class B, Class C and/or Class D recyclable material pursuant to N.J.A.C. 7:26A-1 et seq. shall comply with all conditions of the approval [N.J.A.C. 7:26A-3.1(a)]
2. The holder of this general approval shall prominently post and maintain a legible sign, at or near the entrance to the recycling center, indicating that the recycling center is an approved New Jersey Department of Environmental Protection recycling center. The sign shall also indicate the following: Hours of operation of the recycling center; Listing of the source separated materials to be received; The size, weight, or other restrictions regarding materials to be received; The maximum amount of contaminants allowed in each load; Warning that loads will be inspected and will be barred from offloading if the contaminant level is exceeded; and Notice that the person offloading shall certify the amount of material per load, municipality of origin of the material and any other information contained on the Recyclable Material Receipt Form [N.J.A.C. 7:26A-3.5(f)]
3. Application for renewal of this general approval shall be submitted at least three months prior to expiration of the current approval and shall comply with all requirements for renewal set forth in N.J.A.C. 7:26A-3.6 et seq. One copy of the application for renewal of the general approval shall be submitted by the applicant to the municipal clerk of the municipality in which the recycling center is located, and to the solid waste or recycling coordinator of the county in which the recycling center is located [N.J.A.C. 7:26A-3.6(a)]
4. The applicant for renewal of this general approval shall certify in writing to the Department that there have been no changes in the operations of the recycling center since the issuance of the general approval in order to renew the approval in its existing form. In the event that there have been changes in the operations of the recycling center or where changes are planned, the application for renewal of a general approval shall be accompanied by a written request to modify the general approval in accordance with N.J.A.C. 7:26A-3.10 [N.J.A.C. 7:26A-3.6(b)]
5. In a case where the holder of this general approval does not comply with N.J.A.C. 7:26A-3.6(a) and (b) and continues to operate without renewal of the general approval, the Department may take enforcement action including the assessment of penalties under N.J.S.A. 13:1E-9; require the holder of this general approval to file an application as a new applicant for a general approval in accordance with N.J.A.C. 7:26A-3.2 and pay the application fee as per N.J.A.C. 7:26A-2; and/or take any other appropriate actions [N.J.A.C. 7:26A-3.6(c)]
6. All persons granted a renewal pursuant to N.J.A.C. 7:26A-3.6(d) shall continue to pay the annual fee as specified in N.J.A.C. 7:26A-2 [N.J.A.C. 7:26A-3.6(h)]
7. The holder of this general approval shall obtain prior approval from the Department for any modification of the general approval [N.J.A.C. 7:26A-3.10(a)]
8. Any change affecting the conditions of this general approval requires the prior approval of the Department [N.J.A.C. 7:26A-3.10(b)1]
9. Any change to the information submitted pursuant to N.J.A.C. 7:26A-3.2(a), 3.4, 3.8, 3.18, 3.19 or 3.20 requires the prior approval of the Department, except that changes in end-market information submitted pursuant to N.J.A.C. 7:26A-3.2(a) 7 shall not require the prior approval of the Department but shall be handled in accordance with N.J.A.C. 7:26A-3.10(f). [N.J.A.C. 7:26A-3.10(b)2]

IMPACT ENVIRONMENTAL CONSULTING INC**131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report**

Subject Item: PI 131888 -

10. The holder of this general approval shall notify the Department in writing of the intended modification and shall update the information submitted pursuant to N.J.A.C. 7:26A-3.2(a), 3.4, 3.8, 3.18, 3.19 or 3.20. The holder of this general approval shall also provide written notice to the solid waste or recycling coordinator of the applicable county of any request to modify a general approval. [N.J.A.C. 7:26A-3.10(c)]
11. The holder of this general approval shall not institute the modification until it receives written approval from the Department [N.J.A.C. 7:26A-3.10(e)]
12. Within one week of any change to the end-market information submitted to the Department pursuant to N.J.A.C. 7:26A-3.2(a)7, the holder of this general approval shall submit to the Department a written notification which details any change in the use of the recyclable material transferred from the recycling center to an end-market or in the end-market location to which the recyclable material is transferred. The written notification shall be sent to: New Jersey Department of Environmental Protection, Solid and Hazardous Waste Program, Bureau of Transfer Stations & Recycling Facilities, P.O. Box 414, Trenton, New Jersey 08625-0414. [N.J.A.C. 7:26A-3.10(f)]
13. The Department may revoke this general approval upon a determination that the holder of the general approval has violated any provision of N.J.S.A. 13:1E-1 et seq., the New Jersey Statewide Mandatory Source Separation and Recycling Act, or any rule, regulation or administrative order promulgated pursuant to N.J.S.A. 13:1E-1 et seq. and the New Jersey Statewide Mandatory Source Separation and Recycling Act [N.J.A.C. 7:26A-3.13(a)1]
14. The Department may revoke this general approval upon a determination that the holder of the general approval has violated any solid waste utility law at N.J.S.A. 48:2-1 et seq. or 48:13A-1 et seq., or any rule, regulation or administrative order promulgated pursuant to N.J.S.A. 48:2-1 et seq. or 48:13A-1 et seq [N.J.A.C. 7:26A-3.13(a)2]
15. The Department may revoke this general approval upon a determination that the holder of the general approval has violated any provision of any laws related to pollution of the waters, air or land surfaces of the State or of any other State or Federal environmental laws including criminal laws related to environmental protection [N.J.A.C. 7:26A-3.13(a)3]
16. The Department may revoke this general approval upon a determination that the holder of the general approval has refused or failed to comply with any lawful order of the Department [N.J.A.C. 7:26A-3.13(a)4]
17. The Department may revoke this general approval upon a determination that the holder of the general approval has failed to comply with any of the conditions of this general approval issued by the Department [N.J.A.C. 7:26A-3.13(a)5]
18. The Department may revoke this general approval upon a determination that the holder of the general approval has transferred a general approval to a new owner or operator pursuant to N.J.A.C. 7:26A-3.15 without the prior approval of the Department [N.J.A.C. 7:26A-3.13(a)6]
19. The Department may revoke this general approval upon a determination that the holder of the general approval has failed to obtain any required permit or approval from the Department or other State or Federal agency [N.J.A.C. 7:26A-3.13(a)7]
20. The Department may revoke this general approval upon a determination that the holder of the general approval has committed any of the acts which are criteria for denial of a general approval set forth in N.J.A.C. 7:26A-3.12. [N.J.A.C. 7:26A-3.13(a)8]

IMPACT ENVIRONMENTAL CONSULTING INC
131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report

Subject Item: PI 131888 -

21. This general approval shall not be transferred to a new owner or operator without the Department's prior approval [N.J.A.C. 7:26A-3.15(a)]
22. A written request for permission to allow a transfer of this general approval must be received by the Department at least 60 days in advance of the proposed transfer of ownership or operational control of the recycling center. The request for approval shall include the following: the name, address and social security number of all prospective new owners or operators; a written certification by the proposed transferee that the terms and conditions contained in the general approval will be met by the proposed transferee; and a written agreement between the current owner or operator of the recycling center and the proposed new owner or operator containing a specific future date for transfer of ownership or operational control [N.J.A.C. 7:26A-3.15(a)1]
23. A new owner or operator may commence operations at the recycling center only after the existing approval has been revoked and a new approval is issued to the new owner or operator pursuant to N.J.A.C. 7:26A-3.5 [N.J.A.C. 7:26A-3.15(a)2]
24. The holder of this general approval remains liable for ensuring compliance with all conditions of the approval unless and until the existing approval is revoked and a new approval is issued to the new owner or operator pursuant to N.J.A.C. 7:26A-3.5 [N.J.A.C. 7:26A-3.15(a)3]
25. Compliance with the transfer requirements set forth at N.J.A.C. 7:26A-3.15 shall not relieve the holder of this general approval from the separate responsibility of providing notice of such transfer pursuant to the requirements of any other statutory or regulatory provision [N.J.A.C. 7:26A-3.15(a)4]
26. The transfer of a controlling interest in the stock or assets of the recycling center that is the subject of this general approval shall constitute a transfer of this general approval [N.J.A.C. 7:26A-3.15(b)]
27. The holder of this general approval shall maintain a daily record of the amounts of each recyclable material by type and municipality of origin which are received, stored, processed or transferred each day, expressed in tons, cubic yards, cubic feet or gallons. Those operators specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons [N.J.A.C. 7:26A-3.17(a)1]
28. The holder of this general approval shall maintain a daily record of the name, address and telephone number of the end-markets for all recyclable materials transported from the recycling center, including the amounts, in tons, cubic yards, cubic feet or gallons, transported to each end-market. Those persons specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons [N.J.A.C. 7:26A-3.17(a)2]
29. The holder of this general approval shall maintain a daily record of the amount of residue disposed of, expressed in tons, cubic yards, cubic feet or gallons, including the name and New Jersey Department of Environmental Protection solid waste registration number of the solid waste collector/hauler contracted to provide the haulage/disposal service. Those persons specifying the amount of residue in cubic yards shall also indicate the conversion ratio of the residue from cubic yards to tons. [N.J.A.C. 7:26A-3.17(a)3]
30. The holder of this general approval shall retain all Recyclable Material Receipt Forms required pursuant to N.J.A.C. 7:26A-3.2(a)16iii for three calendar years following the calendar year for which an annual report is required pursuant to N.J.A.C. 7:26A-3.17(c) [N.J.A.C. 7:26A-3.17(b)]

IMPACT ENVIRONMENTAL CONSULTING INC**131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report**

Subject Item: PI 131888 -

31. The holder of this general approval shall submit an annual report containing monthly summary statements of the information required pursuant to N.J.A.C. 7:26A-3.17(a) to the New Jersey Department of Environmental Protection, Solid and Hazardous Waste Program, on or before March 1 of each year, for the previous calendar year. The summaries shall include the following: monthly totals of the amount of recyclable material received from each customer by municipality of origin; monthly totals of the amount of recyclable product transferred to each end-market; and the amount of residue disposed of during each month. [N.J.A.C. 7:26A-3.17(c)]
32. The holder of this general approval shall certify in writing to the Department that all residue generated at the recycling center has been disposed of in accordance with the solid waste management rules at N.J.A.C. 7:26. The certification shall be submitted annually as part of the annual report [N.J.A.C. 7:26A-3.17(e)]
33. All information submitted to the Department pursuant N.J.A.C. 7:26A shall be handled in accordance with the requirements of the Public Records law, N.J.S.A. 47:1-1 et seq. The Department will hold confidential all end-market information, as well as information pertaining to the municipality of origin of recyclable material, submitted pursuant to N.J.A.C. 7:26A-3.2, 3.7, and 3.17 through 3.20 for a period of two years from the date on which the information is submitted to the Department, where specified as confidential by the applicant and where there are no health, safety or environmental concerns which require the release of the information, as determined by the Department. [N.J.A.C. 7:26A-3.17(f)]
34. The holder of this general approval shall provide a recycling tonnage report by February 1 of each year to all municipalities from which recyclable material is received in the previous calendar year. The report shall detail the amount of each source separated recyclable material, expressed in tons or cubic yards, brought to the recycling center, as well as the date on which the recyclable materials were delivered to the recycling center. Those persons specifying this information in cubic yards shall also indicate the conversion ratio of the materials from cubic yards to tons [N.J.A.C. 7:26A-4.4(a)]
35. The recycling center shall not commence operations unless and until it is included in the applicable district solid waste management plan [N.J.A.C. 7:26A-4.2]
36. The construction of the recycling center that is the subject of this general approval shall be in conformance with the New Jersey Uniform Construction Code, N.J.S.A. 52:27D-119 et seq., and the rules promulgated pursuant thereto [N.J.A.C. 7:26A-4.1(b)]
37. The New Jersey Department of Environmental Protection or an authorized representative acting pursuant to the County Environmental Health Act, N.J.S.A. 26:3A2-1 et seq. shall have the right to enter and inspect any building or other portion of the recycling center at any time in order to determine compliance with the provisions of all applicable laws or rules and regulations adopted pursuant thereto. This right to inspect includes, but is not limited to: sampling any materials on site; photographing any portion of the recycling center; investigating an actual or suspected source of pollution of the environment; and, ascertaining compliance or non-compliance with the statutes, rules or regulations of the Department, including conditions of the recycling center approval issued by the Department. [N.J.A.C. 7:26-1.7(a)]
38. The right of entry specified at N.J.A.C. 7:26A-1.7(a) shall be limited to normal operating hours for the purpose of reviewing and copying all applicable records, which shall be made available to the Department during an inspection and submitted to the Department upon request. [N.J.A.C. 7:26-1.7(b)]

IMPACT ENVIRONMENTAL CONSULTING INC
131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report

Subject Item: PI 131888 -

39. The facility shall comply with the general operating requirements for all Recycling Centers as provided at N.J.A.C. 7:26A-4.1 [N.J.A.C. 7:26A-4]

Subject Item: RCBG850400 - Class B Materials Handling

40. The following source separated Class B recyclable materials, which have been separated at the point of generation from other waste materials or separated at a permitted solid waste facility authorized to separate recyclable materials, may be received, stored, processed or transferred at this recycling center: Concrete, Concrete Block, Cinder Block, Brick, Asphalt, Asphalt Millings, Plaster, Ceramic, Porcelain, Tile, and Terra Cotta. [N.J.A.C. 7:26A-3.5(e)]
41. At no time shall the receipt, storage, processing, or transferring of non-source separated construction and demolition material be allowed at this recycling center. The prohibition of this material shall be strictly enforced and any incident shall be considered a serious violation to the conditions of this Approval. [N.J.A.C. 7:26A-3.5(e)]
42. The recycling center may receive, store, process, or transfer source separated Concrete, Concrete Block, Cinder Block, Brick, Asphalt, Asphalt Millings, Plaster, Ceramic, Porcelain, Tile, or Terra Cotta separately or in a commingled manner. The commingling of any other materials not described above is prohibited. [N.J.A.C. 7:26A-3.5(e)]
43. The maximum amount of contaminants, as defined in N.J.A.C. 7:26A-1.3, allowed in each incoming load of Class B recyclable material shall be limited to 1% by volume. Incidental by-product materials shall not be considered to be contaminants. [N.J.A.C. 7:26A-3.5(e)]
44. Incidental amounts of rebar, metal, soil, and other by-products which adhere to the Class B recyclable materials, as specified in this Approval, and which are returned to the economic mainstream as raw material or products, may be received, stored, processed, or transferred at this recycling center. The receipt of such incidental amounts of these materials need not be separately accounted for, but the storage and end-markets for these materials shall be subject to specific conditions of this Approval. [N.J.A.C. 7:26A-3.5(e)]
45. The holder of this general approval shall operate the recycling center and construct or install associated appurtenances thereto, in accordance with the provisions of N.J.A.C. 7:26A-1 et seq., the conditions of this general approval, and the general approval application documents. [N.J.A.C. 7:26A-3.5(e)]
46. In case of conflict, the conditions of this approval shall have precedence over the general approval application documents, and the most recent revisions and supplemental information approved by the Department shall prevail over prior submittals and designs. [N.J.A.C. 7:26A-3.5(e)]
47. One complete set of the general approval application documents, this general approval, and all records, reports and plans as may be required pursuant to this approval shall be kept on file at the recycling center and shall be available for inspection by authorized representatives of the Department or delegated agents upon presentation of credentials. [N.J.A.C. 7:26A-3.5(e)]
48. Hours of operation for receiving, storing, processing, or transferring the source separated recyclable material shall be limited to: 7:00 a.m. to 5:00 p.m., Monday through Friday; 7:00 a.m. to 3:00 p.m., Saturday. [N.J.A.C. 7:26A-3.5(e)]
49. Material deliveries to the recycling center shall be scheduled in such a manner as to minimize truck queuing on the recycling center property. Under no circumstances shall delivery trucks be allowed to back-up or queue onto public roads. [N.J.A.C. 7:26A-3.5(e)]

IMPACT ENVIRONMENTAL CONSULTING INC**131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report**

Subject Item: RCBG850400 - Class B Materials Handling

50. The recycling center may receive no more than 250 tons per day of the recyclable materials. [N.J.A.C. 7:26A-3.5(e)]
51. The total amount of unprocessed Class B recyclable material stored on-site shall not exceed 8,210 cubic yards. Unprocessed materials stored on-site shall be stored only in those areas designated for that purpose as indicated on the approved site plan drawing. [N.J.A.C. 7:26A-3.5(e)]
52. If at any time, the amount of unprocessed material stored on-site exceeds 8,210 cubic yards, the recycling center shall immediately cease receiving any unprocessed material until the amount of unprocessed material stored on-site falls below 8,210 cubic yards. [N.J.A.C. 7:26A-3.5(e)]
53. Unprocessed recyclable material shall not remain on-site, in its unprocessed form, for more than one (1) year. [N.J.A.C. 7:26A-3.9(b)]
54. The total amount of processed Class B recyclable material stored on-site shall not exceed 6,538 cubic yards. Processed materials stored on-site shall be stored only in those areas designated for that purpose as indicated on the approved site plan drawing. [N.J.A.C. 7:26A-3.5(e)]
55. If at any time, the amount of processed material stored on-site exceeds 6,538 cubic yards, the recycling center shall immediately cease processing activities until the amount of processed material falls below 6,538 cubic yards. [N.J.A.C. 7:26A-3.5(e)]
56. All processed material shall be stored separately from residues. [N.J.A.C. 7:26A-3.5(e)]
57. By-products shall be stored in the container(s) or area(s) as depicted on the approved site plan and shall be removed off-site to the end markets as referenced in the approved documents. [N.J.A.C. 7:26A-3.5(e)]
58. Horizontal and vertical control points for the unprocessed and processed materials stockpile areas shall be set and maintained on-site. Horizontal limitation markers shall be set at the corners of the stockpile areas as depicted on the approved site plan. Vertical limitation markers shall be set at locations in close proximity of the stockpile areas and shall clearly establish elevation height of 25 feet above the existing grade for the unprocessed stockpile area and 25 feet above the existing grade for the processed stockpile area. [N.J.A.C. 7:26A-3.5(e)]
59. Ingress and egress of the facility shall be restricted to Page Avenue only. [N.J.A.C. 7:26A-3.5(e)]
60. Methods of effectively controlling dust shall be implemented at the facility in order to prevent offsite migration. [N.J.A.C. 7:26A-3.5(e)]
61. Fire fighting and emergency procedures shall be posted, and shall include the telephone numbers of local fire, police, ambulance, and hospital facilities. If a fire occurs on-site, the facility shall immediately notify the local fire official and report the incident to the N.J.D.E.P. Environmental Action Hotline at 1-877-927-6337. [N.J.A.C. 7:26A-3.5(e)]
62. Any suspected or prohibited hazardous waste, as defined at N.J.A.C. 7:26G-5, found in a load accepted at the recycling center shall not be returned to the generator. Such materials shall be segregated and stored in a secure manner and shall be immediately reported to the N.J.D.E.P. Environmental Action Hotline at 1-877-927-6337. The owner/operator of the recycling center shall secure the name of the collector/hauler suspected of delivering such waste to the facility and related information surrounding the incident, if available, and shall make this information known to N.J.D.E.P. enforcement personnel. [N.J.A.C. 7:26A-3.5(e)]
63. All revisions to the site plan and the approved documents which may be required as a result of the above, shall be submitted to this office for modification to this Approval. [N.J.A.C. 7:26A-3.5(e)]

IMPACT ENVIRONMENTAL CONSULTING INC

131888 CBG110002 Class B Recycling Ctr General Apprv -Transfer of Ownership
Requirements Report

Subject Item: RCBG850400 - Class B Materials Handling

64. Pursuant to N.J.A.C. 7:26A-3.11(a), the holder of this general approval shall obtain prior approval from the Department for any increase in the design capacity of the facility. The facility shall submit a request to the Department, in writing, for the proposed increase and shall submit updated information pursuant to the requirements of N.J.A.C. 7:26A-3.2(a), 3.4, or 3.8, as applicable. The facility shall also provide written notice of the request to the solid waste or recycling coordinator of the applicable district. [N.J.A.C. 7:26A-3.5(e)]
65. The following equipment or equivalent shall be available for site operations and shall be maintained in operable condition: Ultramax 1000 Crushing Portable Plant, Bobcat, Cat Loader 966F, Cat Excavator 325. [N.J.A.C. 7:26A-3.5(e)3]



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

Compliance and Enforcement
Mail Code 401-04B
P. O. Box 420
Trenton, New Jersey 08625-0420

January 17, 2013

IMPACT ENVIRONMENTAL CONSULTING INC
170 Keyland Ct,
Bohemia, NY 11716

Reference: IMPACT ENVIRONMENTAL CONSULTING INC
PROGRAM INTEREST ID # 131888
PROGRAM: Solid Waste
INSPECTION DATE: September 19, 2012
Compliance Inspection # BCI 130001

Dear Sir or Madame:

On September 19, 2012, an inspection was conducted at your facility/site by Gina Conti, of the Solid Waste program. The inspector determined that your facility was in compliance with applicable Department regulations and/or Permit conditions. Therefore, the Department now considers this inspection closed.

Please note this letter pertains only to the observations of the equipment/area/conditions that were part of the inspection that occurred on September 19, 2012.

You may review the inspection report online at www.nj.gov/dep/inspections. Once you have accessed DEP's web site, please follow the instructions on the reverse side of page 2 of the enclosure. This web site also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

The Department appreciates the continued operation of your facility/site in an environmentally responsible manner.

If you have any questions regarding this inspection or correspondence, please contact Gina Conti, of the Solid Waste program, at (609) 292-6305.

Very truly yours,

Wolfgang Skacel
Assistant Commissioner

Enclosure



State of New Jersey

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January 17, 2013

IMPACT ENVIRONMENTAL CONSULTING INC
170 Keyland Ct,
Bohemia, NY 11716

Reference: IMPACT ENVIRONMENTAL CONSULTING INC
PROGRAM INTEREST ID # 131888
PROGRAM: Solid Waste
INSPECTION DATE: October 15, 2012
Compliance Inspection # BCI 130002

Dear Sir or Madame:

On October 15, 2012, an inspection was conducted at your facility/site by Gina Conti, of the Solid Waste program. The inspector determined that your facility was in compliance with applicable Department regulations and/or Permit conditions. Therefore, the Department now considers this inspection closed.

Please note this letter pertains only to the observations of the equipment/area/conditions that were part of the inspection that occurred on October 15, 2012.

You may review the inspection report online at www.nj.gov/dep/inspections. Once you have accessed DEP's web site, please follow the instructions on the reverse side of page 2 of the enclosure. This web site also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

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If you have any questions regarding this inspection or correspondence, please contact Gina Conti, of the Solid Waste program, at (609) 292-6305.

Very truly yours,

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January 17, 2013

IMPACT ENVIRONMENTAL CONSULTING INC
170 Keyland Ct,
Bohemia, NY 11716

Reference: IMPACT ENVIRONMENTAL CONSULTING INC
PROGRAM INTEREST ID # 131888
PROGRAM: Solid Waste
INSPECTION DATE: November 30, 2012
Compliance Inspection # BCI 130003

Dear Sir or Madame:

On November 30, 2012, an inspection was conducted at your facility/site by Gina Conti, of the Solid Waste program. The inspector determined that your facility was in compliance with applicable Department regulations and/or Permit conditions. Therefore, the Department now considers this inspection closed.

Please note this letter pertains only to the observations of the equipment/area/conditions that were part of the inspection that occurred on November 30, 2012.

You may review the inspection report online at www.nj.gov/dep/inspections. Once you have accessed DEP's web site, please follow the instructions on the reverse side of page 2 of the enclosure. This web site also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

The Department appreciates the continued operation of your facility/site in an environmentally responsible manner.

If you have any questions regarding this inspection or correspondence, please contact Gina Conti, of the Solid Waste program, at (609) 292-6305.

Very truly yours,

Wolfgang Skacel
Assistant Commissioner

Enclosure



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Trenton, New Jersey 08625-0420

January 17, 2013

IMPACT ENVIRONMENTAL CONSULTING INC
170 Keyland Ct,
Bohemia, NY 11716

Reference: IMPACT ENVIRONMENTAL CONSULTING INC
PROGRAM INTEREST ID # 131888
PROGRAM: Solid Waste
INSPECTION DATE: December 27, 2012
Compliance Inspection # BCI 130004

Dear Sir or Madame:

On December 27, 2012, an inspection was conducted at your facility/site by Gina Conti, of the Solid Waste program. The inspector determined that your facility was in compliance with applicable Department regulations and/or Permit conditions. Therefore, the Department now considers this inspection closed.

Please note this letter pertains only to the observations of the equipment/area/conditions that were part of the inspection that occurred on December 27, 2012.

You may review the inspection report online at www.nj.gov/dep/inspections. Once you have accessed DEP's web site, please follow the instructions on the reverse side of page 2 of the enclosure. This web site also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

The Department appreciates the continued operation of your facility/site in an environmentally responsible manner.

If you have any questions regarding this inspection or correspondence, please contact Gina Conti, of the Solid Waste program, at (609) 292-6305.

Very truly yours,

Wolfgang Skacel
Assistant Commissioner

Enclosure

Morris - Blanchard St Redevelopment

Alternative Fill Handling Plan

For Fill Material to be Placed at Morris Blanchard Redevelopment Project
By Impact Environmental

Prepared for:

Morris Fairmount Associates Urban Renewal, LLC

350 Veterans Blvd.

Rutherford, New Jersey 07070

Submitted by:

Impact Environmental Consulting, Inc

170 Keyland Court

Bohemia, NY 11716

Date:

November 7, 2013



IMPACT ENVIRONMENTAL | 170 Keyland Court | Bohemia | New York | 11716 | 631.269.8800

**ALTERNATE FILL HANDLING PLAN FOR FILL MATERIAL TO BE PLACED AT
MORRIS BLANCHARD REDEVELOPMENT PROJECT BY IMPACT ENVIRONMENTAL**

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1 Introduction

Defined herein is the Alternative Fill Handling Plan (AFHP) for the receiving operations at the Morris Blanchard Redevelopment Project (the “project”) located in Newark, New Jersey (**Figure 1, Project Location Map**). The redevelopment project is being performed by the Morris Fairmount Associates Urban Renewal, LLC (“Morris”) of Rutherford, New Jersey. The project includes the redevelopment of certain industrial properties that are subject to the New Jersey Department of Environmental Protection (NJDEP), Site Remediation Program. The properties require fill materials to raise the elevation of the project to comply with applicable FEMA flood maps. Engineering controls will be used to create a protective barrier which will permanently cover site-wide contaminants detected in project-wide soils as required by the approved Remedial Action Workplan (“RAWP”). The redevelopment is part of Newark’s High Priority Action, Transportation, Logistics and Distribution Services economic development cluster area. There is an approved Waterfront Development Permit for the project.

Impact Environmental Consulting, Inc. (“Impact Environmental”) of Bohemia, New York has been contracted by Morris to supply the fill necessary in order to raise the project-wide site elevation to comply with new FEMA flood elevation levels as set forth in the Advisory Base Flood Elevation (ABFE) maps. This document identifies the means and methods to be used to ensure compliance with the NJDEP Site Remediation Program during Impact Environmental’s control of the site.

2 Project Description

The project includes individual tax lots that have a combined area of approximately 30 acres. The project is located in the East Ward, Newark Airport and Port Newark neighborhood of Newark, Essex County, New Jersey (see **Figure 1, Project Location Map**). The redevelopment will be performed in phases in order to construct a 768,000 square foot industrial warehouse building with associated parking lots, landscaping and riparian buffer (along river).

The project is identified as the Blanchard Street Redevelopment. This non-residential redevelopment is part of Newark’s High Priority Action, Transportation, Logistics and Distribution Services economic development cluster for the New Jersey Economic Development Authority and Port Authority of New York and New Jersey, Portfields Initiative. The Portfields Initiative program helps private developers, communities and others transform underutilized and brownfield sites into productive warehousing and distribution centers. These centers will support emerging market opportunities for new ocean and air freight-related warehousing and distribution operations.

The individual tax map information on each lot and its development phase is presented on **Table 1**. This information is presented in map for on **Figure 2, Morris Blanchard Redevelopment Project Phase Map**.

3 Regulatory Setting

The environmental impact of former operations at the project has been subject to assessment activities performed on behalf of the Morris in anticipation of redevelopment since 2006. In 2012, the Phase 1 portion of the site was placed into the NJDEP Site Remediation Program (SRP), under the auspices of a Licensed Site Remediation Professional (LSRP), James Mack, of Hillborough, New Jersey (**Exhibit 1, LSRP Notice of Retention- Phase 1**). Environmental assessment activities for Phase I of the project (Fairmount) has been performed pursuant to the RAWP and 23 Areas of Concern (AOC) were identified. Each of these AOC's has been addressed and closed or are in the process of being closed by S2C2 and the LSRP. It is estimated that approximately 400,000 tons of earthen material will be required to meet raise the site elevation to the final elevations required for the project.

In accordance with the LSRP program and guidance, such earthen materials that can be used for the cover can include "alternative fill" as defined by the NJDEP (i.e. contaminated soil, historic fill and non-soil materials) from off-site donor locations. The use of the Fill Materials has been determined to represent a beneficial reuse. This reuse is authorized by the NJDEP under the *Alternative and Clean Fill Guidance for SRP Sites*, issued in 2011 (**Attachment 1: Alternative and Clean Fill Guidance for SRP Sites**). Under this scenario, the maximum concentrations of a contaminant in the off-site donor material, above NJDEP Non-Residential Direct Contact Soil Remediation Standard (the default standard), cannot exceed the 75th percentile of the existing on-site contaminants (a like-on-like evaluation). In this way, the SRP program provides for the use of alternative fill in a manner that is protective of the environment. Donor locations may include in-state and out-of-state sources, if testing protocols meet LSRP approval. For purposes of this AFHP, "alternative fill" or "Fill Materials" shall mean, in addition to material that meets the NJDEP definition, soil or non-soil materials that have been sampled and tested, which said sample results do not exceed the Alternative Fill criteria set forth by Morris's Licensed Site Remediation Professional in compliance with the NJDEP Alternative and Clean Fill Guidance for Site Remediation Plan Sites, the RAWP, the approved Alternative Fill/Soils Management Plan Blanchard Street Redevelopment Area Newark, New Jersey prepared by James Mack dated November 4, 2013 as required by the Alternative and Clean Fill Guidance for SRP Sites under the Site Remediation Reform Act (the "Management Plan") and all applicable Environmental Laws. For purposes hereof, Environmental Laws means any and all federal, state, or local laws, statutes, ordinances, rules, regulations, orders, or determinations of any federal, state or local governmental authority pertaining to health, safety, pollution or the environment, including without limitation, the federal Clean Air Act, as amended, Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, Water Pollution Control Act, as amended, Superfund Amendments and Reauthorization Act of 1986, as amended, Hazardous Materials Transportation Act, as amended, the Spill Compensation and Control Act, as amended, the Industrial Site Recovery Act, as amended ("ISRA"), the Site Remediation Reform Act ("SRRRA"), the Solid Waste Management Act, the Brownfield and Contaminated Site Remediation Act, as amended, and all other environmental, conservation or protection laws, and all rules and regulations promulgated thereunder.

The Fill Materials criterion that has been established by the LSRP is presented herein as **Table 2, Analytical Acceptance Requirement Summary**. As these values were derived in accordance with the SRP regulations, the RAWP and the Management Plan, no authorization from the NJDEP is required to begin importation of qualifying donor materials. Approvals are managed by the LSRP (see below).

The NJDEP, Division of Land Use Regulation approved a Waterfront Development Permit for the construction of the warehouse. This permit allows the use of fill to be graded to raise elevations at the project to construct the warehouse. The elevations on the project will be raised approximately 5 to 10 feet from the existing grade. In addition, the Hudson-Essex-Passaic Soil Conservation District, which administers the Stormwater Discharge Permit Program with the NJDEP Division of Water Quality, certified the Soil Erosion and Sediment Control Program (**Exhibit 2, Permit Authorities**). Please note that permit is a state-wide general permit and that all such permits expiration dates were extended by law to December 31, 2014 (**Attachment 2: Permit Extension Act**).

Impact Environmental will comply with all applicable laws and regulations, including but not limited to, those laws and regulations relating to the placement of fill at the project site.

4 Beneficial Reuse Activities

The NJDEP documents, *Alternative and Clean Fill Guidance for SRP Sites* (December 2011) and *Guidance for Beneficial Reuse of Soil and Non-Soil Material in the Remediation of Contaminated Sites and Closure of Solid Waste Landfills* (June 2008) provide the protocol for the beneficial reuse of contaminated soil, dredge and non-soil materials that would otherwise become solid waste.

Under the concurrence of the SRP and the Division of Solid and Hazardous Waste (DSHW), the beneficial use of the following materials on the project is authorized pursuant to *N.J.A.C. 7:26-1.7(g)* and in compliance with the Solid Waste Rules without needing to obtain a Certificate of Authority to Operate /Beneficial Use Determination (CAO/BUD): 1) Materials produced by Impact Environmental's Reuse and Recovery Facility (Facility ID# 131888) located in Lyndhurst, New Jersey as approved pursuant to *N.J.A.C. 7:26A*; 2) Soils that contain contaminants at levels below the most stringent site clean-up levels established by the Department (i.e. the lower of NJ Direct Contact Residential Soil Remediation Standard and NJ Default Impact to Ground Water Soil Screening levels); and 3) Contaminated soil that has been decontaminated to the satisfaction of the Department and is used or reused in a manner acceptable to the Department. It is this 3rd category that the NJDEP SRP and DSHW have concurred, provides authority to utilize alternative fill from off-site donor locations at the project without the need for a CAO/BUD so long as such fill is approved by the LSRP as required to comply with the SRP and the RAWP. Any Non-Soil Fill Materials (as defined under NJDEP regulations) intended to be used as Alternative Fill that does not come from a Class B Recycling Center, will require a CAO/BUD.

A) Due Diligence Screening of Donor Sources

Fill donor sources that are considered for acceptance at the project will be subject to a due diligence screening process to determine its suitability for beneficial reuse as alternative fill. Paramount to the screening process will be the collection of source-specific data from the generator. To prompt the proper due diligence oriented questions to produce the desired data, the borrow source owner will be required to complete a profile (**Exhibit 3, Source Profile Form**), and sign as to the accuracy of the statements made therein.

The screening process will involve the review of the profile and confirmation research work by the LSRP. If the answers to any of the questions or any of the follow-up research reveal data that would exclude a donor source from being considered as acceptable for beneficial reuse, the source will be denied access into the project.

B) Physical Testing

Physical testing will be performed on off-site donor sources to ensure that the material meets the requirements for project construction operations and is suitable for structural purposes. Sampling and analysis for physical parameters will be performed by the LSRP and/or Morris or Morris' soils engineer, or a designated agent, at a frequency of one composite per 5,000 cubic yards. The analysis will be performed in accordance with ASTM Method D-421/422 for gradation.

The results of the test analyses will be reviewed by Morris's soils engineer. Morris's soil engineer will compare the gradation results to the requirements provided by Morris's project engineer, Mr. Thomas Gallagher, P.E., for attaining proper slope stabilization and compaction. Because the operations are dynamic, these requirements are subject to change at the discretion of Morris.

C) Chemical Testing

Chemical testing will be performed by Impact Environmental, the donor site or Impact Environmental's designated agent. Chemical testing will be performed on off-site donor sources to ensure that the material meets the Analytical Acceptance Requirements for Fill Materials (Table 2). If chemical analysis has been performed on donor Fill Materials that meet the LSRP's standards, complies with the Management Plan and the SRS, and meets the Analytical Acceptance Requirements (as set forth in Table 2) at an off-site donor source location, data can be used to evaluate its suitability for beneficial reuse as Fill Materials. If an investigation has not been completed at the source location, chemical testing will be performed, where necessary, to ensure that material meets the requirements for beneficial reuse. Sampling and analysis for chemical parameters will be performed by Impact Environmental or its consulting company, designated agent, or a qualified entity, at a frequency of 1 sample per 500 to 1,000 cubic yards or as otherwise approved by the LSRP in accordance with the most recent NJDEP Technical Requirements for Site Remediation (TRSR), as defined in NJAC 7:26E, to ensure the representativeness

of the data. Analysis will be performed by NJDEP certified, licensed laboratory. The LSRP will make determinations as to the need or appropriateness of quality control sampling (i.e. field blanks, trip blanks, laboratory blanks).

The results of the analyses will be reviewed by the LSRP. The LSRP will compare the results of the analyses versus the analyte-specific threshold values presented in **Table 2, Analytical Requirement Summary**. In some other cases the LSRP may not have the data necessary for a direct analyte-specific correlation. In such cases the LSRP may, if the quality control of the sampling and analysis is to a satisfactory level and the results allow for a proper characterization of its chemical nature, make a determination that a material classifies as acceptable as alternative Fill Material. Subsequent to the LSRP's determination of approval, an approval letter will be issued by Impact Environmental to the generator and copied to the LSRP.

Impact Environmental maintains Professional Errors and Omissions and Pollution Liability Insurance policies (**Exhibit 4, Impact Environmental General, Pollution and E&O Insurance Certificate**) with an aggregate value of \$25,000,000.

Irrespective of the above regulations, Morris reserves the unilateral right to reject Fill Materials.

5 Quality Control

Impact Environmental will use best management practices. Best management practices will be implemented to affirm quality control engineering determinations, and to minimize uncontrolled dispersion of the beneficial reuse materials during all aspects of its storage and handling in connection with its use for beneficial reuse applications. Foremost of the best management practices will be to provide appropriate accountability of the Fill Material through the use of site controls.

A) Site Controls

Vehicles

All vehicles performing work on the project and delivering Fill Materials to the project will be in good operating condition.

Inspection of Incoming Alternative Fill

All incoming loads of Fill Materials will be visually inspected while on the transport vehicles and after being unloaded from the vehicle by designated project safety personnel, herein referenced as the Project Safety Team. Materials that contain visible volumes of deleterious debris (i.e. municipal solid waste, etc.) or otherwise show any evidence of being noncompliant Fill Material will be rejected from the project.

If it is suspected that the material within the truck has been altered, replaced or added to in any way, the applicable contingency plan measures will be followed.

Fugitive Particulate (dust)

Impact Environmental will provide dust control and monitoring sufficient to satisfy the LSRP.

If no other procedure is established by the LSRP, Impact Environmental or its Project Safety Team, where deemed necessary, will measure airborne fugitive particulate emissions at the project at the nearest downwind property-line on a continuous basis during material handling activities. The measurements will be made using a portable particulate monitoring device manufactured by the Casella Corporation. The monitoring device is capable of detecting airborne particulate (PM-10) at concentrations ranging from 1 to 1000 micrograms per cubic meter (ug/m³). Detected concentrations are logged within the instrument memory and can be retrieved using Microsoft Windows-based software provided by the manufacturer. Retrieved data can be imported into standard PC-based spreadsheet and database software for analysis and report presentation.

If during handling of beneficial reuse materials the total downwind PM-10 particulate level is 150 micrograms per cubic meter (ug/m³) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then the handling activities must immediately stop, and the dust suppression techniques presented herein must be employed. Activities cannot resume until the mitigating measures result in a net downwind PM-10 particulate concentration below 150 ug/m³.

If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 ug/m³ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 ug/m³ of the upwind level and in preventing visible dust migration.

At a minimum, where the particulate monitoring device is used, the following information will be logged:

- Instrument type and detection range
- Control settings
- Atmospheric conditions
- Calibration Records

Fugitive dust suppression measures and controls will consist of the following:

- A strict project-wide speed limit will be set at 15 miles per hour.
- Where necessary, residual material will be wetted using potable water where it is loaded or unloaded from or to a transport vehicle.
- Trucks will be cleaned in the washing station prior to exiting the project.
- Stockpiles will be covered with plastic polyethylene sheeting during periods of inactivity.
- Excavation and handling activities will be halted where winds exceed 40 miles per hour.
- Where possible, unloading of alternative fill will be performed within the central portions of the project as to provide maximum distance to the outer-most property lines.
- Alternative fill materials handled will be covered while being transported within vehicles.
- The street outside the project will be cleaned and swept every day.

Stormwater

The project is subject to Erosion and Sediment Controls approved under a New Jersey Pollution Discharge Elimination System (NJPDES) Permit issued by the NJDEP (NJPDES General Permit No. NJG0088323). The approved plan has provision to address the management of stormwater in accordance with the methods outlined in the NJDEP Stormwater BMP Manual and NJPDES regulations.

Temporary erosion control measures include erosion control matting, hay bales, a rock construction entrance and, if necessary, sediment basin. Erosion and sedimentation control measures are maintained and inspected after each runoff event and on a weekly basis. To prevent excessive stormwater runoff from the project, fill material will not be unloaded during periods of significant precipitation (>1 inch per hour). All stockpiles that will remain overnight will be surrounded with silt fences and/or other control measures, as needed, to prevent runoff of sediments from the project.

B) Administrative Controls

The project is subject to random inspections by the LSRP and by NJDEP personnel. During such inspections transportation information and samples of incoming and/or placed beneficial reuse materials can be collected and submitted to a laboratory for quality control analysis.

Transportation Controls

Prior to the transportation of the Fill Materials, a Transportation and Disposal Notification for each source will be sent out to all personnel involved from the LSRP or his designated agent and to a representative of Morris in email format. When appropriate, the notification email will contain the following information: project number, fill source site address, fill material type (code), receiving facility,

trucking company, number of trucks and rounds scheduled, start time, managing company and a job type code assigned by Impact (**Exhibit 5, Sample Transportation and Disposal Notification**).

Impact will ensure that all transportation vehicles allowed to access the project will be covered by sufficient insurance coverage, as commercially reasonably determined by Morris, including but not limited to coverage sufficient to cover the costs to execute the measures specified within the contingency plan for a loaded vehicle accident.

Trucks scheduled to deliver fill material to the project will be given a transport charter to act as a transportation manifest. The charters are printed on sequentially numbered five-part carbonless forms that are white, yellow, pink, goldenrod and blue (see **Exhibit 6, Transportation Charter**). The driver of each truck will complete "Section 1" of each charter before it departs from the residual material source site. "Section 2" will be fully completed by a representative of the Generator before exiting the site. "Section 3" of the charter will be completed at the project by a representative of the Project Safety Team following inspection, weighing and tipping. The generator will retain one part (blue) of the form prior to the truck leaving. The transporter will retain the golden part of the form and the Project Safety Team will retain the remaining parts.

The remaining executed parts of the charter will be paired to a numbered two-part weight receipt from a certified scale located at the project. The Project Safety Team will retain a duplicate of the weight ticket for reconciliation. The generator will receive the yellow part of the charter and the second part of the weight ticket.

Impact Environmental will retain the white part of the charter and a photocopy of the weight ticket. The Project Safety Team will retain the goldenrod part of the charter. These documents will be made available for the NJDEP for reconciliation.

The charters of all trucks arriving from the project will be reviewed at the weigh scale prior to any other activities (i.e. inspection or tipping). All rejected loads of any materials arriving at the project will be documented in a "Rejection Log".

Vehicle weighing

All transportation vehicles will be weighed by a certified scale prior to entering the project. All scale operators carry valid public weigh master licenses. The scale operator maintains tare weight storage for calibration of the scale. A scale calibration notification will be automatically prompted by computer on a monthly basis.

C) Contingency Plan

A contingency plan has been designed to address conditions that could be encountered. The plan, which is presented below, identifies; 1) criteria for when the contingency plan is implemented; 2) alternative handling procedures for unacceptable materials; 3) alternative disposal facilities for unacceptable

materials; and, 4) key contacts list (including regulatory agencies) in the event of a contingency/accident (vehicle or otherwise).

Analysis Review Failure Plan

Where sample analysis determines that the something stockpiled or placed at the Property is not acceptable pursuant to the Property's criteria, it will be disposed of at one of the alternative disposal facilities identified below. This contingency will prompt oral and written notification by Impact Environmental to the LSRP and the individuals on the Key Contact List below.

Key Contact	Affiliation	Telephone Number
Mr. James Mack	James P. Mack LLC	908-448-6566
Mr. Richard Parrish	Impact Environmental	631-269-8800
Mr. Mark M. Bava	Morris Fairmount Associates Urban Renewal, LLC	201-804-8700
Mr. Robert Morris	Morris Fairmount Associates Urban Renewal, LLC	201-804-8700
Mr. Tom Gallagher	Morris Fairmount Associates Urban Renewal, LLC	201-804-8700
Mr. James Rivera	Project Safety Team	631-664-6115

The alternative disposal facilities have been identified as TRC, in Allentown, Pennsylvania and Phase III Environmental, LLC, in Palmerton, Pennsylvania. Unacceptable materials moving to the alternative disposal facilities would be tracked and documented in the same manner as the accepted fill material that was moving into the project. However, new transportation charters would be completed as appropriate to the project for each truck containing the unacceptable material.

Rejection at Project – Temporal Disparity in Transport

Where the Project Safety Team has determined that a vehicle has taken an excessive period of time to arrive at the project from the fill material source location, the LSRP and Morris will be notified. In such a situation the LSRP will document such occurrence, and query the driver and transportation company owner for written justification of the temporal disparity. If the LSRP and Morris are each satisfied with the justification, the fill material will be accepted at the project and inspected as required before tipping. If the LSRP or Morris is not satisfied with the explanation for the temporal disparity, the vehicle and the load will be returned to its source location.

Rejection at Property – Inspection Rejection

Where the Project Safety Team has determined that a vehicle load contains non-compliant Fill Materials and/or deleterious debris or is otherwise rejected by the LSRP or Morris, or suspects that the truck load

has been altered, replaced or added to in any way, the LSRP, Morris, Impact Environmental and a representative of the donor site will be notified.

In such a situation the LSRP will document such occurrence, and the vehicle and the load will be returned to the material source site. If rejection occurs after tipping at the project the truck will be re-loaded with the same material with on-site equipment, including a front-end loader. If excess material exists due to over-cutting with a front end loader, the balance of the material will be placed on and covered with plastic sheeting and Impact Environmental will promptly arrange with the responsible transportation company or, if non-responsive another reputable trucking company, to remove the material back to the source location.

This contingency will prompt oral and written notification by Impact Environmental or the LSRP to the individuals on the Key Contact List below.

Key Contact	Affiliation	Telephone Number
Mr. James Mack	James P. Mack LLC	908-448-6566
Mr. Richard Parrish	Impact Environmental	631-269-8800
Mr. Mark M. Bava	Morris Fairmount Associates Urban Renewal, LLC	201-804-8700
Mr. Robert Morris	Morris Fairmount Associates Urban Renewal, LLC	201-804-8700
Mr. Tom Gallagher	Morris Fairmount Associates Urban Renewal, LLC	201-804-8700
Mr. James Rivera	Project Safety Team	631-664-6115

TABLES, FIGURES, EXHIBITS and ATTACHMENTS

List of Tables

Table 1: Project Tax Map Numbers, Land Uses and Project Phases

Table 2: Analytical Requirement Summary

Table 3: Summary of Analytical Methods

Table 1: Project Tax Map Numbers, Land Uses and Project Phases

Table 1

Tax Section – Block -Lot	Lot Name – Previous Tenant	Size (Acres)	Phase
Block 2438, Lot 74; Block 5001, Lot 40	Fairmount Chemical Corp.	11.52+1.54 =13.06	1A
Block 2438, Lot 85	Newark Housing Authority	2.54	1B
Block 2438, Lots 76 and 78	Delisa	2.07 + 0.16 = 2.23	2
Block 2438, Lot 80	Conrail	0.81	2
Block 2438, Lots 82-84	C&D Trucking	3.04+2.00 =5.04	3
Block 2438, Lot 92	City of Newark	0.37	2
Block 5001, Lots 42 and 46	Lennard Corp.	0.52+0.65 =1.17	2
Block 5001, Lot 93	146 Broad Construction	0.42	3
Block 5001, Lots 48 and 49	B&B Disposal	0.38+0.66 =1.04	3
Block 5001, Lot 50	City of Newark - Vacant Office Building	1.62	3

Table 2, Analytical Acceptance Requirement Summary

Parameter Name	Parameter ID	NJ RDCSRS	Morris - Blanchard Acceptance Criteria
Unit		<i>ug/kg</i>	<i>ug/kg</i>
1,1,1-Trichloroethane	VOC	290000	4,200,000
1,1,2,2-Tetrachloroethane	VOC	1000	3,000
1,1,2-Trichloroethane	VOC	2000	6,000
1-1- Biphenyl	SVOC	3100000	34,000,000
1,1-Dichloroethane	VOC	8000	24,000
1,1-Dichloroethene	VOC	11000	150,000
1,2-Dibromo-3-Chloropropane	VOC	80	200
1,2-Dibromoethane	VOC	8	40
1,2-Dichlorobenzene	VOC	5300000	NA
1,2-Dichloroethane	VOC	900	3,000
1,2-Dichloropropane	VOC	2000	5,000
1,3-Dichlorobenzene	VOC	5300000	59,000,000
1,3-Dichloropropene(cis and trans)	VOC	2000	7,000
1,4-Dichlorobenzene	VOC	5000	13,000
2-Butanone	VOC	3100000	44,000,000
Acetone	VOC	70000000	NA
Acrolein	VOC	500	1,000
Acrylonitrile	VOC	900	3,000
Benzene	VOC	2000	5,000
Benzidine	SVOC	700	700
Bromodichloromethane	VOC	1000	3,000
Bromoform	VOC	81000	280,000
Bromomethane	VOC	25000	59,000
Carbon Disulfide	VOC	7800000	110,000,000
Carbon Tetrachloride	VOC	600	2,000
Chlorobenzene	VOC	510000	7,400,000
Chlorodibromomethane	VOC	3000	8,000
Chloroethane	VOC	220000	1,100,000
Chloroform	VOC	600	2,000
Chloromethane	VOC	4000	12,000
cis-1,2-Dichloroethene	VOC	230000	560,000
Dichlorodifluoromethane	VOC	490000	230,000,000
Ethylbenzene	VOC	7800000	110,000,000
Methyl Acetate	VOC	78000000	NA
Methylene Chloride	VOC	34000	97,000

Methyl Tert-Butyl Ether	VOC	110000	320,000
Naphthalene	SVOC	6000	17,000
Styrene	VOC	90000	260,000
Tertiary Butyl Alcohol	VOC	1400000	11,000,000
Tetrachloroethene	VOC	2000	5,000
Toluene	VOC	6300000	91,000,000
Total Xylenes	VOC	12000000	170,000,000
trans-1,2-Dichloroethene	VOC	300000	720,000
Trichloroethene	VOC	7000	20,000
Trichlorofluoromethane	VOC	23000000	340,000,000
Vinyl Chloride	VOC	700	2,000
Hexachlorobutadiene	SVOC	6000	25,000
1,2- Diphenylhydrazine	SVOC	700	2,000
1,2,4-Trichlorobenzene	VOC	73000	820,000
2,4,5-Trichlorophenol	SVOC	6100000	68,000,000
2,4,6-Trichlorophenol	SVOC	19000	74,000
2,4-Dichlorophenol	SVOC	NA	2,100,000
2,4-Dimethylphenol	SVOC	1200000	14,000,000
2,4-Dinitrophenol	SVOC	120000	1,400,000
2,4-Dinitrotoluene	SVOC	700	3,000
2,6-Dinitrotoluene	SVOC	700	3,000
2-Chlorophenol	SVOC	310000	2,200,000
2-Methylnaphthalene	SVOC	230000	2,400,000
2-Methylphenol	SVOC	310000	3,400,000
3,3-Dichlorobenzidine	SVOC	1000	4,000
4,6-Dinitro-2-methylphenol	SVOC	6000	68,000
4-Methylphenol	SVOC	31000	340,000
Acenaphthene	SVOC	3400000	37,000,000
Acenaphthylene	SVOC	NA	300,000,000
Acetophenone	SVOC	2000	5,000
Anthracene	SVOC	17000000	30,000,000
Atrazine	SVOC	210000	2,400,000
Benzaldehyde	SVOC	6100000	68,000,000
Benzo-a-Anthracene	SVOC	600	4,000
Benzo-a-Pyrene	SVOC	200	4,000
Benzo-b-Fluoranthene	SVOC	600	4,000
Benzo-k-Fluoranthene	SVOC	6000	23,000
Benzo-g,h,i-Perylene	SVOC	380000000	30,000,000
Bis(2-Chloroethyl)ether	SVOC	400	2,000

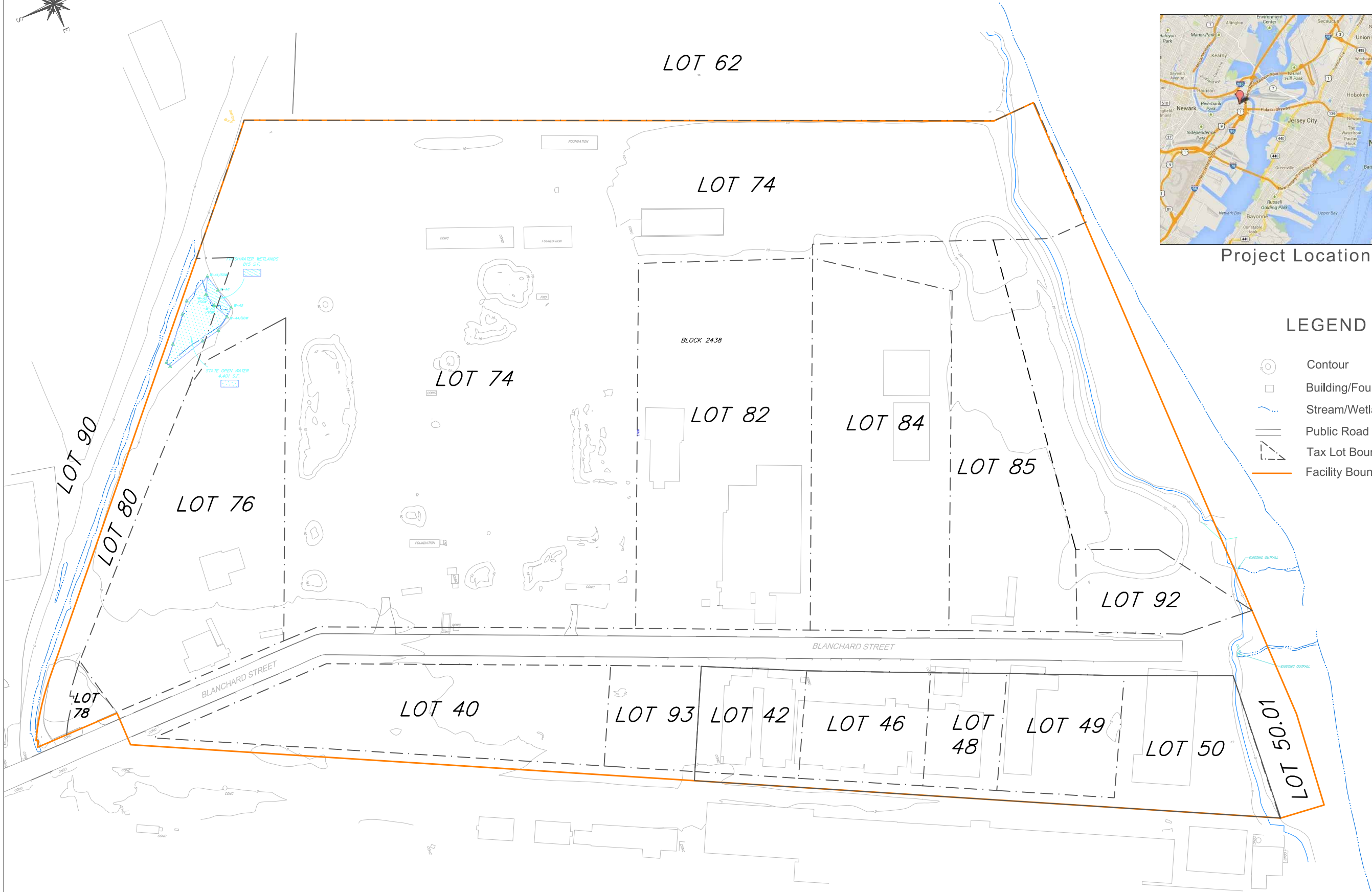
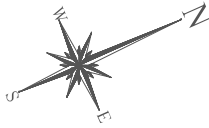
Bis(2-Chloroisopropyl)ether	SVOC	23000	67,000
Bis(2-Ethylhexyl)Phthalate	SVOC	35000	140,000
Butylbenzylphthalate	SVOC	1200000	14,000,000
Caprolactam	SVOC	31000000	340,000,000
Carbazole	SVOC	24000	96,000
Chrysene	SVOC	62000	230,000
Dibenzo-a,h-Anthracene	SVOC	200	4,000
Diethyl Phthalate	SVOC	49000000	550,000,000
Di-n-Butyl Phthalate	SVOC	6100000	68,000,000
Dinitrotoluene(2,4-/2,6-)	SVOC	NA	3,000
Di-n-Octyl Phthalate	SVOC	2400000	27,000,000
Fluoranthene	SVOC	2300000	24,000,000
Fluorene	SVOC	2300000	24,000,000
Hexachlorobenzene	SVOC	300	1,000
Hexachlorocyclopentadiene	SVOC	45000	110,000
Hexachloroethane	SVOC	35000	140,000
Indeno(1,2,3-cd)Pyrene	SVOC	600	4,000
Isophorone	SVOC	510000	2,000,000
Nitrobenzene	SVOC	31000	340,000
N-Nitrosodimethylamine	SVOC	700	700
N-Nitroso-di-n-Propylamine	SVOC	200	300
N-Nitrosodiphenylamine	SVOC	99000	390,000
Pentachlorophenol	SVOC	3000	10,000
Phenanthrene	SVOC	NA	300,000,000
Phenol	SVOC	18000000	210,000,000
Pyrene	SVOC	1700000	18,000,000
4,4-DDD	PESTICIDE	3000	13,000
4,4-DDE	PESTICIDE	2000	9,000
4,4-DDT	PESTICIDE	2000	8,000
Aldrin	PESTICIDE	40	200
alpha-BHC	PESTICIDE	100	500
beta-BHC	PESTICIDE	400	2,000
Chlordane	PESTICIDE	200	1,000
Dieldrin	PESTICIDE	40	200
Endosulfan	PESTICIDE	470000	6,800,000
Endosulfan Sulfate	PESTICIDE	470000	6,800,000
Endrin	PESTICIDE	23000	340,000
gamma-BHC	PESTICIDE	400	2,000
Heptachlor	PESTICIDE	100	700

Heptachlor Epoxide	PESTICIDE	70	300
Methoxychlor	PESTICIDE	390000	5,700,000
Polychlorinated Biphenyls	PESTICIDE	200	1,000
Toxaphene	PESTICIDE	600	3,000
Unit		<i>mg/kg</i>	<i>mg/kg</i>
Aluminum, Al	METAL	78000	NA
Antimony, Sb	METAL	31	450
Arsenic, As	METAL	19	19
Barium, Ba	METAL	16000	59,000
Beryllium, Be	METAL	16	140
Cadmium, Cd	METAL	78	78
Chromium, hexavalent	METAL	NA	240
Cobalt, Co	METAL	NA	590
Copper, Cu	METAL	NA	45,000
Cyanide	METAL	1600	23,000
Lead, Pb	METAL	400	800
Manganese, Mn	METAL	11000	5,900
Mercury, Hg	METAL	23	65
Nickel, Ni	METAL	1600	23,000
Selenium, Se	METAL	390	5,700
Silver, Ag	METAL	390	5,700
Thallium, Ti	METAL	5	79
Vanadium, V	METAL	78	1,100
Zinc, Zn	METAL	23000	110,000
EPH	TPH	5,100	54,000

Table 3, Summary of Analytical Methods

Test Parameters	Test Methods	Per 500 to 1,000 CY
Volatiles Organics	USEPA 8260	1 of 5 Grabs
Semivolatile Organics	USEPA 8270	Composite from 5 Grabs
PCBs	USEPA 8082	Composite from 5 Grabs
Pest. /Herb.	USEPA 8081/ 8150	Composite from 5 Grabs
Total Metals	USEPA 6010	Composite from 5 Grabs
Total Cyanide	USEPA 9012A	Composite from 5 Grabs
Hexavalent Chromium	USEPA 7196A/ 3060A	Composite from 5 Grabs
Extractable Petroleum Hydrocarbons	NJDEP EPH Method Rev. 3	Composite from 5 Grabs

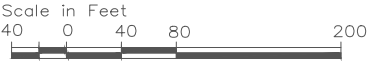
Figure 1: Project Location Map



Project Location

LEGEND

- Contour
- Building/Foundation Structure
- Stream/Wetland
- Public Road
- Tax Lot Boundary
- Facility Boundary



PROJECT #

FAC-12

FIGURE #

01

TITLE:

Facility Plan

117 Blanchard Street
Newark, New Jersey

DRAWN BY: XY
CHECKED BY: RP
DATE: 11/25/2013
SCALE:

IMPACT ENVIRONMENTAL

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

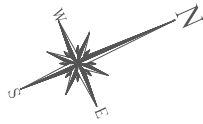
Figure 2: Morris Blanchard Redevelopment Project Phase Map



PROJECT #	FAC-12
	FIGURE #
TITLE:	Construction Phase
	117 Blanchard Street Newark, New Jersey
DRAWN BY:	XY
	RP
CHECKED BY:	DATE:
	11/25/2013
SCALE:	

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

Figure 3: Material Management Grids

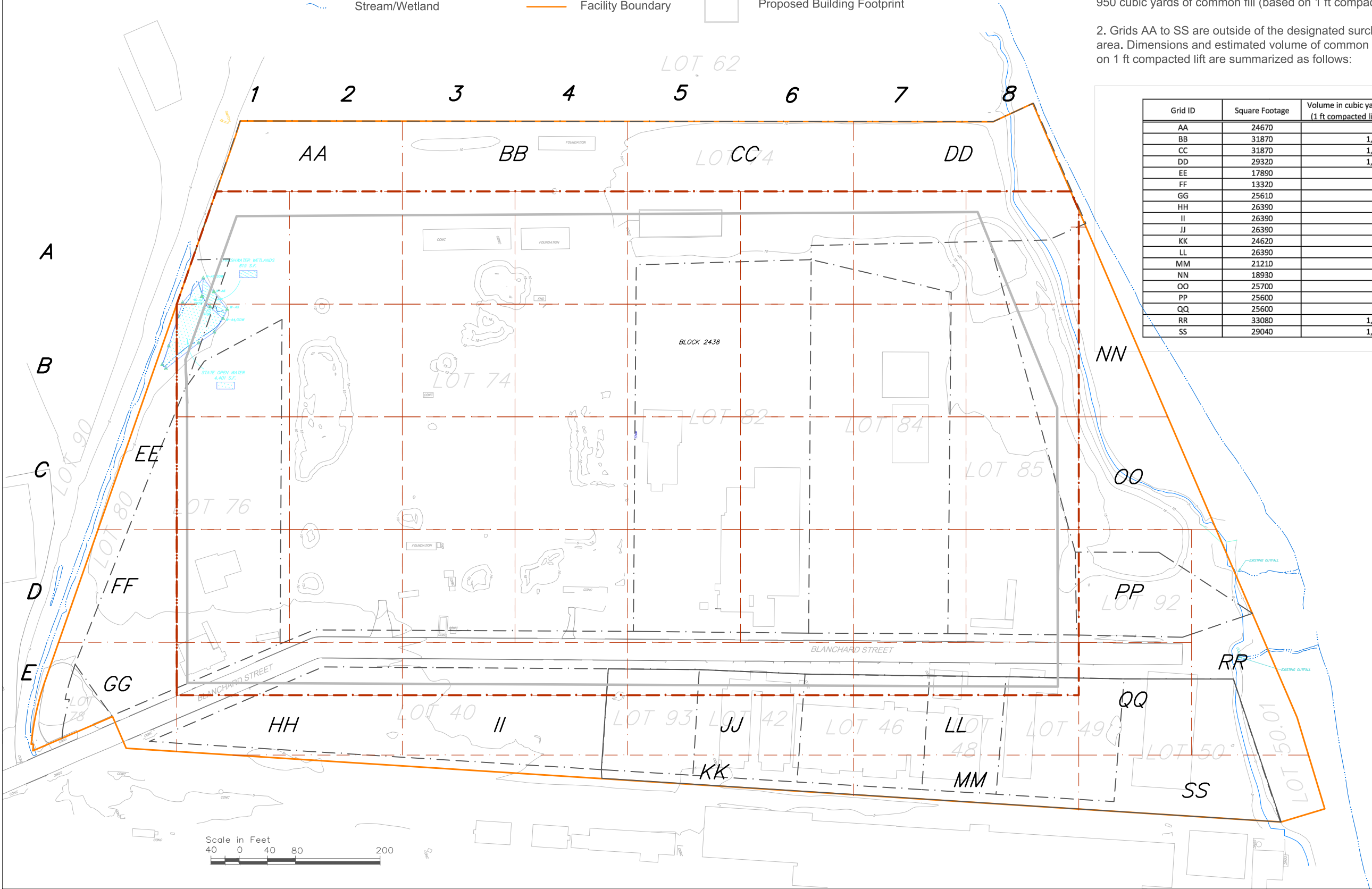


- Contour
- Building/Foundation Structure
- Stream/Wetland
- Public Road
- Tax Lot Boundary
- Facility Boundary
- Material Management Grid
(160 X 160 ft or as indicated)
- Proposed Building Footprint

NOTES

1. Each of the building footprint grids (A1 to E8) has a dimension of approx. 160 by 160 ft and will accept approx. 950 cubic yards of common fill (based on 1 ft compacted lift).
2. Grids AA to SS are outside of the designated surcharge area. Dimensions and estimated volume of common fill based on 1 ft compacted lift are summarized as follows:

Grid ID	Square Footage	Volume in cubic yards (1 ft compacted lift)
AA	24670	914
BB	31870	1,180
CC	31870	1,180
DD	29320	1,086
EE	17890	663
FF	13320	493
GG	25610	949
HH	26390	977
II	26390	977
JJ	26390	977
KK	24620	912
LL	26390	977
MM	21210	786
NN	18930	701
OO	25700	952
PP	25600	948
QQ	25600	948
RR	33080	1,225
SS	29040	1,076



PROJECT #

FAC-12

FIGURE #

03

TITLE:

Material Management Grids

IMPACT ENVIRONMENTAL

170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599



DRAWN BY:

XY

CHECKED BY:

RP

DATE:

11/25/2013

SCALE:

117 Blanchard Street
Newark, New Jersey

List of Exhibits

Exhibit 1: LSRP Notice of Retention – Phase 1

Exhibit 2: Permit Authorities

Exhibit 3: Source Profile Form

Exhibit 4: Impact Environmental General, Pollution and E&O Insurance Certificate

Exhibit 5: Sample Transportation and Disposal Notification

Exhibit 6: Transportation Charter

Exhibit 1: LSRP Notice of Retention – Phase 1



New Jersey Department of Environmental Protection
Site Remediation Program

LSRP NOTIFICATION OF RETENTION OR DISMISSAL

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Fairmount Chemical Company, Inc

List all AKAs: _____

Street Address: 117 Blanchard Street

Municipality: Newark (Township, Borough or City)

County: Essex Zip Code: 07105

Program Interest (PI) Number(s): 015008 Case Tracking Number(s): E20020444

SECTION B. RETENTION INFORMATION

I was retained by Morris Companies, Inc to serve as the licensed site remediation professional for the remediation at the site on 01/03/2012.

I replaced another LSRP: _____ ☐ Yes ☒ No

Provide name of replaced/released LSRP: _____

SECTION C. RELEASE INFORMATION

I was released by _____ from service as the licensed site remediation professional for remediation at the site on _____.

Note: The release notification is only required if it occurs prior to the issuance of the response action outcome for the site by the LSRP.

SECTION D. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 509037

First Name: James Last Name: Mack

Phone Number: (908) 448-6566 Ext: _____ Fax: _____

Mailing Address: 25 Starview Drive

City/Town: Hillsborough State: New Jersey Zip Code: 08844

Email Address: jamespmack@jpm-llc.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-16d and N.J.S.A. 58:10B-1.3b(2).

I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: James P. Mack Date: 1/10/12

LSRP Name/Title: James P. Mack/President

No Changes Since Last Submittal ☒

Company Name: James P. Mack LLC

SECTION E. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Morris Fairmount Associates

Representative First Name: Mark Representative Last Name: Bava

Title: Executive Vice President

Phone Number: (201) 804-8700 Ext: _____ Fax: _____

Mailing Address: Morris Companies; 350 Veterans Boulevard

City/Town: Rutherford State: New Jersey Zip Code: 07070

Email Address: _____

1. I am a prospective purchaser of the subject site ☐ Yes ☒ No

2. I am hiring a LSRP to address an unregulated heating oil tank(s) only ☐ Yes ☒ No

3. I maintain I have a defense to spill act liability pursuant to N.J.S.A. 58:10-23.11gd because I am a (select one):

- ☐ Government Entity ☐ Lender
☐ Innocent Purchaser ☒ Developer

4. I am hiring a LSRP to meet licensing requirements for a child care center on this site ☐ Yes ☒ No
If "Yes," indicate if you are the ☐ property owner or ☐ tenant.

5. This site is or may be impacting a school, childcare center or residence ☐ Yes ☒ No

6. I am taking over remediation from the Department or another party ☐ Yes ☒ No
If "Yes," indicate name of party that was previously conducting remediation:

_____ If "Yes," the party who I am taking over from agrees that I will conduct the remediation. ☐ Yes ☐ No

7. Total number of contaminated AOC(s) on site known at this time: 4

8. I have hired a LSRP to address:

☒ the entire site based upon a PA/SI (completed or yet to be completed);
or

☐ Specific known contaminated AOC(s). Indicate the number of known contaminated AOC(s) that this LSRP is addressing: _____

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, and that to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____

Date: 1/16/12

Name/Title: Mark Bava/Executive Vice President

SECTION F. "OPT IN" REQUESTIs a Case Manager assigned? ☒ Yes ☐ NoIf "Yes," provide name: Steve Kehayes

In accordance with N.J.A.C. 7:26C-2.3(b), I hereby request that the Department allow the remediation at the site identified in Section A, above, to be conducted in accordance with N.J.A.C. 7:26C-2.4. I certify that I have paid all invoiced uncontested oversight costs and applicable fees and that, if applicable, my remediation funding source has been established and maintained in an amount that reflects the estimated cost of remediation and that all applicable surcharges have been paid. I further certify that I agree to pay oversight costs incurred by the Department but not yet invoiced and, if applicable, to maintain my remediation funding source in an amount that equals the estimated cost of the remediation and to pay any required surcharge.

I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

I understand that my submittal of this certification provides an automatic approval of this request, provided that I am eligible for approval and that the Department finds the certification to be truthful and accurate.

Signature: _____

Date: 1/14/12Typed/Printed Name: Mark BavaTitle: EVP & CFO

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Exhibit 2: Permit Authorities

AUTHORIZATION TO DISCHARGE STORMWATER



N.J. Department of Environmental Protection
Bureau of Nonpoint Pollution Control
in cooperation with the
N.J. Department of Agriculture
State Soil Conservation Committee
and Soil Conservation Districts



NJPDES General Permit No. NJG0088323

Stormwater Discharge Associated with Construction Activity

Is this a Ch. 251 Project? Yes, App. # Newark 104780 ; SCD RFA# 07-14-09-013

1. Project or Facility Name and Address

Blanchard Street Redevelopment

80 - 132 and 97 - 135 Blanchard St.

Newark, NJ 07102

2. Permittee Name and Address

Same as Owner

3. Owner Name and Address

Tom Gallagher
Morris Fairmount Associates, LLC

350 Veterans Blvd.

Rutherford, NJ 07070

4. Proposed Land Use (check appropriate category(ies)):

- a. Residential Dwelling ☐ Single Family ☐ Multi-Family;
b. Commercial Facility ☐ ; c. Industrial Facility ☒ ; d. Mining or Quarry ☐ ;
e. Public School, Religious or Charitable Institutions ☐ ; f. Other (specify) ☐

Effective Date 9-3-08

Expiration Date 3-3-2012 ^{Permit Extension - 6/30/15}

Your Request for authorization under NJPDES General Permit No. NJG0088323 has been certified in accordance with the provisions of N.J.A.C. 7:14A and the New Jersey Stormwater Permitting Program in coordination with the New Jersey Department of Agriculture, the State Soil Conservation Committee and the Soil Conservation District.

Barry Chalofsky

Barry Chalofsky, P.P. Chief
Bureau of Nonpoint Pollution Control
New Jersey Department of Environmental
Protection

CERTIFIED BY:

Carl Quazza

Signature

Date

Carl Quazza
Chairman

Title

HEP-SCD, 15 Bloomfield Ave.

North Caldwell, NJ 07006

FOR DISTRICT USE ONLY

**NJ Natural Resources Conservation
Program**

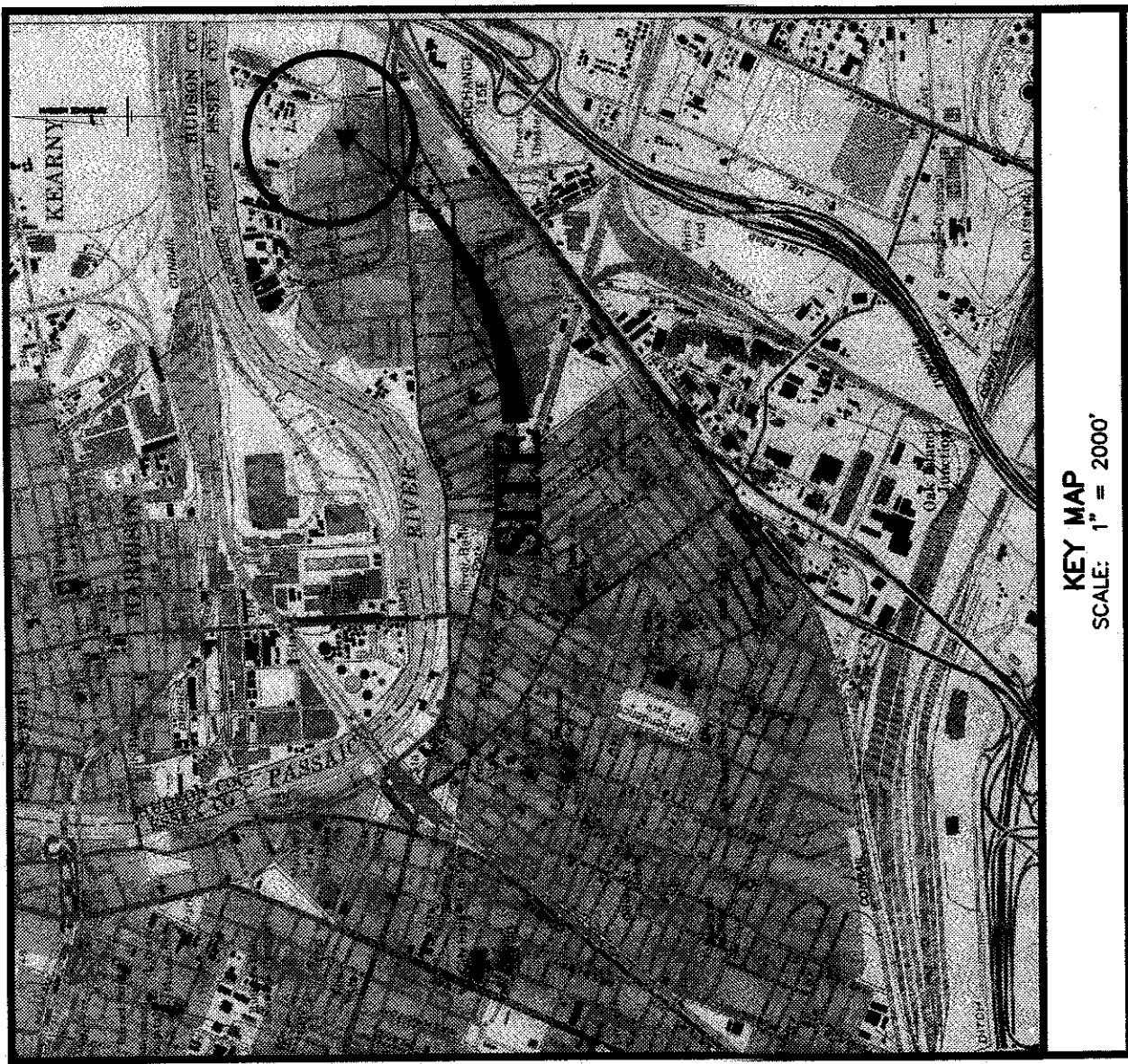
Expiration of Authorization to Discharge Stormwater

Reason for Expiration:

- ☐ Project Completed (Final Report of
Compliance Issued)
☐ Application Withdrawn by Applicant
☐ Application Denied by District or SSCC
☐ Project SESC Plan Certification Expired

Date of Expiration _____

Authorized by _____
District Official



KEY MAP
SCALE: 1" = 200'

TIDE LANDS GRANT
UNDER W. PACT
FIRST TRACT
LOTS 62 & 74, BLOCK 2438

LIMIT OF
DISTURBANCE
AREA = 11.82 AC.

RESERVE ROAD 1805
N.E.P.S.

PERHEAD & BULKHEAD LINE (PRELIMINARY)

PASSAIC RIVER

NEW WASH WATER
LINE ELEV. 2.33 FT
AS SHOWN BY LGA
CONSULTING INC.

LOT 84

LOT 82

LOT 74

LOT 76

LOT 80

LOT 82

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ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT THE APPROXIMATE LOCATIONS OF KNOWN UTILITY STRUCTURES AND FACILITIES ARE SHOWN ON THE PLANS. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF THESE UTILITIES AND OTHER CONSTRUCTION CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY DISCOVERED UTILITIES WHICH MAY AFFECT THE PROJECT DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY DISCOVERED UTILITIES WHICH MAY AFFECT THE PROJECT DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY DISCOVERED UTILITIES WHICH MAY AFFECT THE PROJECT DESIGN.

EXISTING	PROPOSED
BOUNDARY LINE	BOUNDARY LINE
DEPRESSED CURB	DEPRESSED CURB
EDGE OF PAVEMENT	EDGE OF PAVEMENT
PAINT LINE	PAINT LINE
CONTOURS	CONTOURS
MAJOR	MAJOR
STORM DRAIN	STORM DRAIN
EXISTING DRAINAGE	EXISTING DRAINAGE
YARD DRAIN	YARD DRAIN
STORM INLET 'B'	STORM INLET 'B'
STORM INLET 'E'	STORM INLET 'E'
MANHOLE	MANHOLE
CLEANOUT	CLEANOUT
LIMIT	LIMIT
SILT FENCE	SILT FENCE
INLET PROTECTION	INLET PROTECTION
CONSTRUCTION ENTRANCE	CONSTRUCTION ENTRANCE



LGA ENGINEERING, INC.
CONSULTING ENGINEERS & SURVEYORS

SEAN R. TORPEY, P.E.
PROFESSIONAL ENGINEER
No. 10033
Exp. 12/31/2012
City of Newark, Essex County, New Jersey

DATE: 05/15/08
SCALE: 1"=50'
DRAWN BY: RSC
CHECKED BY: RSC
DESIGNED BY: RSC

SITUATED IN:
LOT 74, BLOCK 2438
LOT 40, BLOCK 5001
P/O BLANCHARD STREET R.O.W.
FAIRMOUNT CHEMICAL SITE REMEDIATION
CITY OF NEWARK, ESSEX COUNTY, NEW JERSEY

NO.	DATE	REVISION	DRAWN	CHECKED	FILED
1	05/15/08	1"=50'	RSC	RSC	502025000100
DRAWN: RSC					217-009 C
SHEET 1 OF 2					



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF LAND USE REGULATION

501 East State Street, Station Plaza 5, 2nd Floor
P.O. Box 439, Trenton, New Jersey 08625-0439
Fax: (609) 777-3656 or (609) 292-8115
www.state.nj.us/dep/landuse



PERMIT

In accordance with the laws and regulations of the State of New Jersey, the Department of Environmental Protection hereby grants this permit to perform the activities described below. This permit is revocable, voidable, and is subject to the limitations, terms, and conditions listed below and on the attached pages. For the purpose of this document, permit, and approval, certification, registration, authorization, waiver, etc.		Approval Date SEP 05 2007
		Expiration Date SEP 05 2012
Permit Number/s 0714-07-0001.1 WFD070001 (Upland) WFD070002 (In-water) FWW070001 (GP-6)	Type of Approval/s Waterfront Development – IP Upland Waterfront Development – IP In-water Freshwater Wetlands General Permit #6	Enabling Statute/s NJSA 12:5-3 NJSA 13:9B-1 NJSA 58:10A-1
Applicant: The Morris Fairmount Associates, LLC 350 Veterans Boulevard Rutherford, NJ 07070		Owner (if different from applicant)
<p>This permit authorizes the construction of a 750,000 sq. ft. warehouse building with associated parking and loading/unloading areas, and the repair and enlargement of an existing outfall structure located below the mean high water line of the Passaic River; and The filling of 0.02 of an acre of freshwater wetlands and 0.10 acres of State open waters authorized under Statewide General Permit #6 for the construction of the warehouse and parking lot.</p> <p>The proposed project is shown on site plans entitled: "Preliminary & Final Major Site Plan; Lots 74, 76, 78, 80, 82, 84, 85, 92, Block 2438; Lots 40, 42, 46, 48, 49, 50, 50.01, 93, Block 5001; P/O Blanchard Street R.O.W.; Blanchard Street Redevelopment. September 20, 2006; prepared by LGA Engineering, Inc."</p> <ul style="list-style-type: none">a) "SITE LAYOUT PLAN" (Sheet 3), last revised August 21, 2007;b) "GRADING AND DRAINAGE PLAN" (Sheet 4), last revised August 29, 2007;c) "UTILITY PLAN" (Sheet 5), last revised August 21, 2007;d) "PROFILES" (Sheet 6 - no revisions, Sheet 7 - last revised July 25, 2007, and Sheet 8 - last revised June 29, 2007);e) "LANDSCAPE AND LIGHTING PLAN" (Sheet 9 - last revised August 21, 2007, and Sheet 10 - no revisions);f) "SOIL EROSION AND SEDIMENT CONTROL PLAN" (Sheet 11 - last revised August 21, 2007, and Sheet 12 - no revisions);g) "CONSTRUCTION DETAILS" (Sheets 13 & 14) last revised August 29, 2007. <p>This permit is authorized under, and in compliance with, the Rules on Coastal Zone Management, N.J.A.C. 7:7E-1.1 et seq. By issuance of this permit, the State of New Jersey does not relinquish tidelands ownership or claim to any portion of the subject property or adjacent properties. The permittee shall allow an authorized Division representative the right to inspect the construction pursuant to N.J.A.C. 7:7E-1.5(b)4.</p>		
Project Location: Block: 2438; Lots: 74, 76, 78, 80, 82, 84, 85, & 92 Block: 5001; Lots: 40, 42, 46, 48, 49, 50, 93, & 94 City of Newark Essex County, New Jersey		Received by County Clerk
Project Manager's Signature Becky Dreibelbis Telephone: 609-984-0194 Email: Becky.Dreibelbis@dep.state.nj.us		
This permit is not valid unless authorizing signature appears on the last page.		

Note: This permit is extended automatically according to the Permit Extension Act.

Terms And Conditions**STANDARD CONDITIONS:**

1. **Extent of approval:** This document grants permission to perform certain activities that are regulated by the State of New Jersey. The approved work is described by the text of this permit and is further detailed by the approved drawings listed below. All work must conform to the requirements, conditions and limitations of this permit and all approved drawings. You must keep a copy of this permit and all approved drawings readily available for inspection at the work site. Approved work may be altered only with the prior written approval of the Division. If you alter the project without prior approval, or expand work beyond the description of this permit, you may be in violation of State law and may be subject to fines and penalties.
2. **Acceptance of permit:** If you begin any activity approved by this permit, you thereby accept this document in its entirety and agree to adhere to all terms and conditions. If you do not accept or agree with this document in its entirety, do not begin construction. You are entitled to request an appeal within a limited time as detailed on the attached *Administrative Hearing Request Checklist and Tracking Form*. You may also contact the project manager shown on the first page if you have any questions or concerns about this document.
3. **Recording with County Clerk:** You must record this permit in the Office of the County Clerk for each county involved in this project. You must also mail or fax a copy of the front page of this permit to the Division showing the received stamp from each County Clerk within 30 days of the issuance date (or 90 days if multiple counties are involved). The Division's address and fax number are shown on the first page of this permit.
4. **Notice of Construction:** You must notify the Division in writing at least 7 days before you begin any work approved by this permit. The Division's address and fax number are shown on the first page of this permit. Please direct your letter to the project manager shown on the first page.
5. **Expiration date:** All activities authorized by this permit must be completed by the expiration date shown on the first page. At that time, this permit will automatically become invalid and none of the approved work may begin or continue until a replacement permit is granted. (Some coastal permits may qualify for an extension of the expiration date. Please contact the Division for further information.)
6. **Rights of the State:** This permit is revocable and subject to modification by the State with due cause. The State may inspect the work site and may suspend construction if work does not comply with this permit. This permit does not grant property rights. The issuance of this permit shall not affect any action by the State on future applications, nor affect the title or ownership of property, nor make the State a party in any suit or question of ownership.
7. **Other responsibilities:** You must obtain all necessary local, Federal and other State approvals before you begin work. All work must be stabilized in accordance with the *Standards for Soil Erosion and Sediment Control in New Jersey*, and all fill material must be free of toxic pollutants in toxic amounts as defined in section 307 of the Federal Act.

SPECIAL CONDITIONS IN ADDITION TO THE STANDARD CONDITIONS:

8. **Prior to commencing any activities authorized by this permit,** the permittee shall execute and deliver a Deed of Conservation Easement in recordable form that clearly delineates the proposed public waterfront walkway and perpendicular access as depicted on the approved plans. The deed restriction shall include the entire 30-foot wide conservation easement along the water's edge of the site and the 8-foot wide conservation easement along the eastern edge of the site, as depicted on the approved plans. These areas should be noted as public access facilities open to the general public on a 24-hour basis, to be maintained and managed by the permittee (or its assigns) in perpetuity. In addition, a public access walkway connecting to the adjacent neighbors shall be included, such that when public access becomes available at


Terms And Conditions

those sites, the access can be easily connected. This area shall also be addressed in the deed restriction for current and all future owners of the subject property. The restriction shall be included on the deed, and recorded in the office of the County Clerk (the REGISTRAR OF DEEDS AND MORTGAGES), in the county wherein the lands included in the waiver are located. The restriction shall run with the land and be binding upon all successive owners. All individual lot surveys shall show the approved proposed public access walkway boundaries. Any regulated activities undertaken on the site before a copy of the recorded restriction is submitted to the Division will be considered in violation of the Waterfront Development Law. The conservation restriction shall also include a requirement to maintain overlooks, trash receptacles, benches, lighting, and railing along the entire waterfront walkway and signage to be maintained in perpetuity. The permittee shall submit a revised plan illustrating the meets and bounds description of the entire proposed public access area.

9. Prior to the start of construction, the permittee shall provide documentation to the Division that the project is in compliance with the regulations of the NJDEP Site Remediation Program, Office of Brownfields Administration.
10. Prior to the start of construction and upon receiving approval from NJDEP Site Remediation Program, Office of Brownfields Administration as stipulated in permit condition #9, the applicant shall submit revised plans to the Division of Land Use Regulation detailing the construction of a 16-foot walkway extending approximately 1,100 feet along the water's edge of the property, and the construction of an 8-foot wide perpendicular access sidewalk along the eastern edge of the site. The plans shall detail the specific materials being used for the walkway, as well as the location of trash receptacles, benches, lighting, and a railing along the entire waterfront walkway, and shall include overlooks and signage to be maintained in perpetuity.
11. Prior to the start of construction, the permittee must obtain a Tidelands Grant and Interim License from the NJDEP Bureau of Tidelands.
12. Prior to the start of construction, the permittee must obtain approval from the City of Newark for the Traffic Study associated with this project.
13. All necessary local, Federal and other state approvals must be obtained by the applicant prior to the commencement of the herein-permitted activities. Approvals from the following agency may be required:
 - a. New York District of the Army Corps of Engineers.
14. In order to protect the general game fishery resource within the Passaic River, any proposed grading or other construction activities within 25 feet of the top of bank of the Passaic River is prohibited from May 1 to June 30 of each year.
15. *Conditions of the Freshwater Wetlands Statewide General Permit #6:*
This portion of the permit authorizes the filling of 871.2 sq. ft. (0.02) acres of isolated freshwater wetlands and 4,356 sq. ft. (0.10 acres) of State open waters for the construction of a warehouse and associated parking lot, under a Freshwater Wetlands Statewide General Permit #6, as depicted on the approved plans.
16. The applicant must make specific arrangements to ensure the continuous maintenance and efficient operation of all proposed water quality measures on this site in accordance with the Department's Best Management Practices Manual. This includes, but is not limited to the cleaning and inspection of all water quality inlets and water quality mechanical units at least 4 times a year and after every storm exceeding 1 inch of rainfall, and the continuous implementation of appropriate soil conservation practices within any basins, grassed swales, stormwater outfall structures and other similar appurtenances throughout the site in order to limit soil erosion and sediment discharge into adjacent waterways.

Terms And Conditions

17. The time limit for backfilling and stabilizing all earth work and for the removal of all temporary fill and other appurtenances in connection with the placement of storm water outfall structures, pipelines and other utility crossings shall be thirty (30) days after the commencement of construction for each individual stream crossing and/or section of the project along any stream channel. However, if the construction is located within an acid producing area, the backfilling must be completed without exposing any acid producing deposits for more than eight (8) hours.
18. All excavated material and dredged spoils must be disposed of in a lawful manner outside of any regulated flood plain, open water, freshwater wetlands or adjacent transition areas, and in such a way as to not interfere with the positive drainage of the receiving area.
19. Trees, shrubs, grasses, and other vegetation within 25 feet from the top of all stream banks on site shall not be disturbed for any reason, except as approved by the Department and as shown on the approved site plans. This condition applies to all streams and waterways on site, regardless of the contributory drainage area.



Andrew Clark, Supervisor
Bureau of Inland Regulation

9/5/07
Date

Exhibit 3: Source Profile Form



APPLICATION FORM

MORRIS BLANCHARD REDEVELOPMENT PROJECT – NEWARK, NJ

(PLEASE PRINT OR TYPE – ATTACH ADDITIONAL SHEETS IF NECESSARY)

PROJECT INFORMATION

- 1) NAME, ADDRESS AND TELEPHONE NUMBER OF SOURCE OWNER/GENERATOR:

ADD: _____

TEL: _____

- 2) SOURCE NAME AND PHYSICAL LOCATION (INCLUDE LOT AND BLOCK):

ADD: _____

BLOCK: _____ LOT: _____

- 3) VOLUME SUBJECT OF THIS APPLICATION: _____ CY

- 4) DESCRIBE BOTH CURRENT AND HISTORIC LAND USES OF THE SITE FROM WHICH THE MATERIAL WAS GENERATED, THE DATE(S) THE MATERIAL WAS GENERATED, REASONS FOR THE GENERATION OF MATERIAL AND/OR THE PROCESS BY WHICH THE MATERIAL WAS GENERATED.

- 5) DESCRIBE ANY REGULATORY (ENVIRONMENTAL) INVOLVEMENT IN THE PROJECT.

- 6) DESCRIBE THE OPERATIONAL CONTROLS TO BE TAKEN DURING THE HANDLING AND TRANSPORTATION OF THE MATERIAL TO MINIMIZE ENVIRONMENTAL AND HUMAN IMPACTS:

- 7) DEFINE THE TYPE OF SOLID WASTE – IF MIXTURE, INCLUDE EACH COMPONENTS % OF THE WHOLE (INCIDENTAL AMOUNTS OF REBAR, METAL, SOIL AND OTHER BY-PRODUCTS ADHERING TO THE RECYCLABLE MATERIAL ARE ALLOWED):

☐ SOIL _____ %

☐ CONCRETE & CONCRETE BLOCK _____ %

☐ BRICK _____ %

☐ OTHER _____ %, DESCRIBE BELOW:

- 8) INDICATE THE ITEMS CONSIDERED FOR REFERENCE WITH THIS APPLICATION:

- ☐ A SITE MAP OF THE LOCATION OF THE SITE OF ORIGIN.
- ☐ A SAMPLING PLAN FOR ALL SAMPLES THAT WILL BE OBTAINED FROM THE PROPOSED MATERIAL, INCLUDING A SITE MAP DEPICTING SAMPLE LOCATIONS, SAMPLING FREQUENCY AND COMPOSTING FREQUENCY.
- ☐ ALL LABORATORY REPORTS PREPARED BY THE COMMERCIAL TESTING LABORATORY, INCLUSIVE OF CHAIN OF CUSTODY DOCUMENTATION.
- ☐ ANY TABULATED SUMMARY SPREADSHEETS SUMMARIZING THE DATA ON THE LABORATORY REPORTS.
- ☐ ALL AVAILABLE ENVIRONMENTAL OR GEOTECHNICAL REPORTS WITH RESPECT TO THE SITE AND OR SITES THAT WHERE THE WASTE WAS GENERATED.

- 9) NAME, ADDRESS AND TELEPHONE NUMBER OF THE LABORATORY:

ADD: _____

TEL: _____

- 10) LIST THE SAMPLE NAMES/ID#'S FOR ALL SAMPLES INCLUDED OR REFERENCED WITHIN THE LABORATORY REPORT(S) AND SUBMITTED FOR CONSIDERATION AS PART OF THIS APPLICATION:

- 11) NAME, ADDRESS AND TELEPHONE NUMBER OF THE COMPANY THAT PERFORMED THE SAMPLING:

ADD: _____

TEL: _____

- 12) IS THE PROPOSED MATERIAL CLASSIFIED AS A HAZARDOUS WASTE BY TOXICITY OR BY DEFINITION?

☐ YES

☐ NA

☐ NO

- 13) WAS THE MATERIAL IMPACTED BY ANY POINT POLLUTION SOURCE?

☐ YES

☐ NA

☐ NO

CHAIN OF PAYMENT

IN ORDER, STARTING WITH THE OWNER/GENERATOR AND ENDING WITH THE COMPANY TO BE BILLED FOR LOADS OF WASTE RECEIVED, PROVIDE THE CHAIN OF PAYMENT. THIS INFORMATION WILL NOT BE USED TO CIRCUMVENT ANY PARTIES INVOLVED IN THE TRANSACTION.

OWNER/, NAME AND CONTACT #:

IF APPLICABLE, TIER 1 CONTRACTOR/BROKER, NAME AND CONTACT #:

BILLING ENTITY, NAME AND CONTACT #:

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I AM THE OWNER/GENERATOR OF THE SOLID WASTE REFERENCED WITHIN THIS APPLICATION, AND THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE AND COMPLETE. FURTHER, I BELIEVE THAT THE MATERIAL WAS CHARACTERIZED IN ACCORDANCE WITH NJAC 7:26D AND NJAC 7:26E.

I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT. I UNDERSTAND THAT, IN ADDITION TO CRIMINAL PENALTIES, I MAY BE LIABLE FOR A CIVIL ADMINISTRATIVE PENALTY PURSUANT TO APPLICABLE LAW AND THAT SUBMITTING FALSE, INACCURATE, OR INCOMPLETE INFORMATION MAY BE GROUNDS FOR DENIAL, REVOCATION, OR TERMINATION OF ANY SOLID WASTE FACILITY PERMIT, LICENSE, OR OTHER OPERATING AUTHORITY FOR WHICH I MAY BE SEEKING APPROVAL OR NOW HOLD.

NAME AND ADDRESS OF OWNER /GENERATOR (PERSONAL OR CORPORATE):

ADD: _____

PRINTED NAME OF OWNER/GENERATOR/REPRESENTATIVE: _____

SIGNATURE OF OWNER/GENERATOR/REPRESENTATIVE: _____

DATE OF SIGNATURE: _____

Exhibit 4: Impact Environmental General, Pollution and E&O Insurance Certificate

**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

10/15/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER The Graham Company The Graham Building 1 Penn Square West Philadelphia, PA 19102		(215) 567-6300	CONTACT NAME: Joseph C. Holden PHONE (A/C, No, Ext): 215-567-6300 FAX (A/C, No): 215-933-3988 E-MAIL ADDRESS: Holden_Unit@grahamco.com	
		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: Ironshore Specialty Insurance Co.		25445
		INSURER B: Wesco Insurance Company		25011
		INSURER C: Commerce & Industry Insurance Company		19410
		INSURER D:		
		INSURER E:		
		INSURER F:		

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GENERAL LIABILITY			000291602	5/12/2012	5/12/2013	EACH OCCURRENCE \$ 2,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$ 25,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY \$ 1,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC						GENERAL AGGREGATE \$ 4,000,000
							PRODUCTS - COMP/OP AGG \$ 4,000,000
							\$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY			WPP1061642	5/12/2012	5/12/2013	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident) \$
							\$
							\$
A	<input type="checkbox"/> UMBRELLA LIAB			000291702	5/12/2012	5/12/2013	EACH OCCURRENCE \$ 23,000,000
	<input checked="" type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE \$ 23,000,000
	<input type="checkbox"/> DED	<input type="checkbox"/> RETENTION \$					\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			009930961	10/13/2012	10/13/2013	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N <input checked="" type="checkbox"/> N	N/A				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
							E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liability			000291602	5/12/2012	5/12/2013	\$2,000,000/\$4,000,000 Occur/Aggr.
A	Pollution			000291602	5/12/2012	5/12/2013	\$2,000,000/\$4,000,000 Occur/Aggr.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION****EVIDENCE OF COVERAGE**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



AT IMPACT, WE'VE GOT YOU

covered.

Impact Environmental's insurance program consists of the broadest coverage commercially available in the marketplace. It is important both for us and our clients that we carry the broadest coverage available in the market for two reasons,

1. It ensures we have the necessary Balance Sheet protection to weather almost any event which means we can focus on completing our clients' work, and
2. It means that our clients will be protected to the greatest extent possible from claims that could potentially arise during the course of operations.

At a time when many environmental contractors are making drastic cuts to stay alive, you can rest assured that you are on **SOLID GROUND** with Impact Environmental. Below are some key areas where our insurance program offers better protection to us and our clients:

PRIMARY GENERAL, POLLUTION AND PROFESSIONAL LIABILITY

Higher Primary Limits - \$2MM per Occurrence/Claim, \$4MM Aggregate Limit: Many contractors carry only \$1MM in Primary Limits. Impact Environmental's limits are higher and can reduce the risk of triggering an owner's policy in event of a loss.

Combined Policy Form: This means one insurance company to deal with on virtually any liability situation the company may be faced with resulting from Impact Environmental's work. This increases the likelihood that any potential 3rd party claims will be paid in an expedient manner and with less finger pointing (i.e. litigation).

Defense costs in addition to liability limits: Impact Environmental's liability limits will not be eroded by defense costs in the event of a claim on both the General Liability and Pollution Liability coverage. Again, this provides greater protection to our clients.

GENERAL LIABILITY

General Aggregate applies to Each Location or Project: With the increasing use of Additional Insured Requirements in contracts, Commercial General Liability Limits are shared with numerous Additional Insureds who are unrelated to your project. In the event of a large loss involving a completely unrelated project, limits could be quickly depleted. With the Per Location/Per Project Aggregate Endorsement, Impact Environmental has adequate limits for all of its jobsites.

Blanket Additional Insured coverage with NO Direct Contract Requirement: Although most contractors have coverage that can name an owner as an Additional Insured, many times there is a Direct Contract Requirement in the policy. This means there would be no Additional Insured coverage from the subcontractor to the Owner if the subcontractor has entered into a contract with the General Contractor and not directly with the Owner. Impact Environmental's policy doesn't have this common limitation, and anyone required in a contract to be named as an Additional Insured will be covered.

Blanket Primary/Non-Contributory Additional Insured Coverage: This enhancement will allow claims against an Owner/General Contractor that have been given Additional Insured status on Impact Environmental's policy to access all of Impact Environmental's limits since their insurance will be primary in the event of a claim and will not require sharing.

POLLUTION LIABILITY

Expanded Definition of Property Damage: In the event of a Pollution loss, Impact Environmental has broad enhancements that provide coverage for third party property damage, loss of use of tangible property, diminished value of property owned by others and Natural Resource Damage coverage. Most environmental insurance policies limit this definition which could leave the Owner or General Contractor exposed on a job.

Blanket Non-Owned Disposal Sites Coverage: Impact Environmental's policy provides coverage for pollution losses that arise from the disposal sites we use to dispose of our Client's waste. This means that our clients don't have to worry that years down the road they will have to pay to clean up a disposal site used by Impact Environmental.

Financial Responsibility: Impact Environmental's Auto policy meets regulatory and financial responsibility requirements for companies that haul potential pollutants by having the appropriate MCS-90 endorsement. This means that transportation related pollution claims will be paid by Impact Environmental's insurance company regardless of whether there is insurance coverage.

Transportation Coverage: Impact Environmental's policy provides pollution coverage from cradle to grave including while waste product is in transit. This also means there is insurance coverage for Impact Environmental to back up the Financial Responsibility requirements placed on waste haulers by the Motor Carrier Act of 1980.

EXCESS LIABILITY

Substantial Excess Limits: The \$23M per Occurrence in Excess of \$2M over the underlying General, Pollution and Professional Liability policy provides significant limits that would go towards a loss before triggering an owner's policy. In certain jurisdictions, particularly New York, there is case law requiring all Primary policies to be exhausted before Excess policy limits are forced to pay. With Blanket Primary Non-Contributory Additional Insured coverage also extending to Impact's Excess Policy, owners' limits are better protected.

Following Form Coverage: The terms and conditions of the Umbrella policy are just as broad as the underlying coverages. Most Excess policies strive to reduce coverage over the Primary policies.

When you are dealing with environmental issues, you want superior quality and exceptional service at the best possible price. At Impact Environmental, we've proved that we can deliver quality, service and price through intelligence, dedication and innovation. We aim for and deliver total satisfaction.

www.impactenvironmental.com

We'll put you on solid ground.



Exhibit 5: Sample Transportation and Disposal Notification

Subject: Project #xxxx Example Development, Example, PA Transport and Disposal Notification for (Example Date)

This is a transportation notification/confirmation for a project. It is intended as a courtesy and does not represent substantive information with respect to the project. Information contained herein should be verified by telephone. Further, receipt of this notice does not guarantee acceptance into the referenced facility.

PJT #	SITE ADDRESS	MATERIAL	FACILITY	TRUCKER	# TRUCKS	RDS	START TIME	COMPANY MANAGING	JOB TYPE
xxxx	Example Development	Example	TRC	Example	x	x	Example Start time	Example	Example code

This email is intended to be reviewed in HTML format. If your device is unable to accept HTML formatted email, please notify accordingly.

Lead Coordinator

IMPACT ENVIRONMENTAL – *welcome to solid ground...*
www.impactenvironmental.com

Corporate Headquarters
170 Keyland Court | Bohemia | NY | 11716
T | 631.269.8800 F | 631.269.1599 C|631.524.7863

This transmission and any attachments, or documents accompanying this transmission contain information that is confidential and/or privileged. The information is intended only for the use of the individual or entity named on this transmission sheet. If you are not the intended recipient, you are hereby notified that any action in reliance on the contents of this transmission is strictly prohibited and that the document(s) along with this transmission should be returned to the sender immediately and deleted immediately from your device.

Exhibit 6: Transportation Charter

Transportation Charter / Manifest

Generator:

1

Authorized By (print)

Authorized By (title)

Authorized By (sig)

Transporter:

2

Driven By

Truck/Trailer Plate

Driver Signature

Material/Note(s):

Manifest
Number

02724



TARE WEIGHT MUST BE INCLUDED

NET WEIGHT _____ GROSS WEIGHT _____

NET TONS _____ TARE WEIGHT _____

TICKET NUMBER _____

Project under the management of Impact
Environmental. In case of emergency call 631-269-
8800 or 516-805-8900

Received By (print)

Date/Time

Receiving Facility:

3

By signing this manifest the Hauler accepts that it is solely
responsible for the amount of material that is being transported
as well as the methods and means for its travel.

Driven By (sig)

List of Attachments

Attachment 1: Alternative and Clean Fill Guidance for SRP Sites

Attachment 2: Permit Extension Act Letter, E. Smith

Attachment 1: Alternative and Clean Fill Guidance for SRP Sites



New Jersey Department of Environmental Protection



Site Remediation Program

Alternative and Clean Fill Guidance for SRP Sites

**Updated December 29, 2011
Version 2.0**

Public Document, that can be provided upon request or at
www.nj.gov/dep/srp/guidance/srra/fill_protocol.pdf

Attachment 2: Permit Extension Act Letter, E. Smith



State of New Jersey
DEPARTMENT OF COMMUNITY AFFAIRS
101 SOUTH BROAD STREET
PO BOX 802
TRENTON, NJ 08625-0802

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

RICHARD E. CONSTABLE, III
Commissioner

December 10, 2012

Dear Construction Official:

As you may know, P. L. 2012, c.48, the Greenwald Jobs Creation Bill (A-1338) extends the expiration date of certain permits under the Permit Extension Act of 2008, P.L. 2008, c.78. Under this new law, the dates have changed, the definition of "environmentally sensitive areas" is modified and amendments have been made to the list of permits and approvals included and excluded under the Permit Extension Act. The other terms and conditions of the Permit Extension Act remain as they were. Below and attached please find updated guidance on the application of the Permit Extension Act which has been revised to reflect the new expiration dates.

As code officials, you will continue to deal with this law on two levels: its impact on permits issued under the UCC and its impact on prior approvals. The Act stops the clock on the running of approvals during the "extension period," which is now defined as January 1, 2007 through December 31, 2014. This means that any UCC permit that was valid as of January 1, 2007 will still be valid on December 31, 2014. On December 31, 2014, when the clock starts again, the permit is valid for an additional six months or for the time that would have remained on January 1, 2007, whichever is shorter. Any permit issued during the extension period (between January 1, 2007 and December 31, 2014) will be valid until June 30, 2015 (six months beyond the end of the extension period,) or until the date when it would have expired if the Permit Extension Act had not been passed, whichever is longer. (Some examples of how to apply the Permit Extension Act to UCC permits are enclosed.)

There continues to be an exclusion in the Act for permits issued for projects in environmentally sensitive areas. To determine whether your municipality or any portion of your municipality is an "environmentally sensitive area" as that term is defined in the Act, please refer to the enclosed attachment.

In order to determine whether a prior approval qualifies for extension under this Act, construction officials should check with the agencies and officials responsible for issuing those prior approvals to make sure that those prior approvals remain in effect. A list of the approvals included and of those excluded by the Act is enclosed.

In those cases where plan review was done by DCA, any plan release that was valid on or after January 1, 2007 may be used to support issuance of a permit through June 30, 2015. Once again, before issuing a permit, it is necessary to check with the agencies or officials involved to ensure that any required prior approvals remain valid.



Information, including the full text of the Act, is posted on the Division's website at for your use. (Direct link: http://www.njleg.state.nj.us/2012/Bills/A1500/1338_R4.PDF)

Should you have any questions about the application of the Permit Extension Act, please feel free to call the Code Assistance Unit at (609) 984-7607.

Sincerely,

A handwritten signature in black ink, appearing to read "Edward M. Smith", with a long horizontal flourish extending to the right.

Edward M. Smith
Director
Division of Codes and Standards

Attachments: Definition of "Environmentally Sensitive Area"
List of permits included and excluded
Examples of Application to Permits Issued under the UCC

Permit Extension Act of 2008
Definition of "Environmentally Sensitive Area"

"Environmentally sensitive areas" include areas designated in the State Development and Redevelopment Plan as Planning Area 4B (Rural/Environmentally Sensitive), Planning Area 5 (Environmentally Sensitive), or a critical environmental site, but shall not include any "extension area."

An "extension area" is an area designated pursuant to P.L.1985, c.398 (C.52:18A-196 et seq.) as Planning Area 1 (Metropolitan), Planning Area 2 (Suburban), Planning Area 3 (Fringe Planning Area), Planning Area 4A (Rural Planning Area), a designated center, or a designated growth center in an endorsed plan until June 30, 2013, or until the State Planning Commission revises and readopts New Jersey's State Strategic Plan and adopts regulations to refine this definition as it pertains to Statewide planning areas, whichever is later; a smart growth area and planning area designated in a master plan adopted by the New Jersey Meadowlands Commission pursuant to subsection (i) of section 6 of P.L.1968, c.404 (C.13:17-6); regional growth areas, villages, and towns, designated in the comprehensive management plan prepared and adopted by the Pinelands Commission pursuant to section 7 of the "Pinelands Protection Act," P.L.1979, c.111 (C.13:18A-8); the planning area of the Highlands Region as defined in section 3 of the "Highlands Water Protection and Planning Act," P.L.2004, c.120 (C.13:20-3), and any Highlands center designated by the Highlands Water Protection and Planning Council, established pursuant to section 4 of P.L.2004, c.120 (C.13:20-4); an urban enterprise zone designated pursuant to P.L.1983, c.303 (C.52:27H-60 et seq.) or P.L.2001, c.347 (C.52:27H-66.2 et al.); an area determined to be in need of redevelopment pursuant to sections 5 and 6 of P.L.1992, c.79 (C.40A:12A-5 and 40A:12A-6) and as approved by the Department of Community Affairs; or similar areas designated by the Department of Environmental Protection. "Extension area" shall not include an area designated pursuant to the State Development and Redevelopment Plan adopted, as of the effective date of P.L.2008, c.78, pursuant to P.L.1985, c.398 as Planning Area 4B (Rural/Environmentally Sensitive) or Planning Area 5 (Environmentally Sensitive), except for any area within Planning Area 4B or Planning Area 5 that is a designated center, or a designated growth center in an endorsed plan.

Permit Extension Act of 2008
List of Permits and Approvals Included and Excluded

The law specifically **includes** UCC permits and includes the following: any approval of a soil erosion and sediment control plan granted by a local soil conservation district, any waterfront development permit, any permit issued pursuant to "The Wetlands Act of 1970," any permit issued pursuant to the "Freshwater Wetlands Protection Act," any approval of an application for development granted by the Delaware and Raritan Canal Commission, any permit issued by the New Jersey Meadowlands Commission, any approval of an application for development granted by the Pinelands Commission and determination of municipal and county plan conformance pursuant to the "Pinelands Protection Act," any permit issued or center designations made pursuant to the "Coastal Area Facility Review Act," any septic approval, any highway access permit or right-of-way permit granted by the Department of Transportation, any approval granted by a sewerage authority*, any approval granted by a municipal utilities authority, an agreement with a municipality, county, municipal authority, sewerage authority, or other governmental authority for the use or reservation of sewerage capacity, any approval issued by a county planning board, any preliminary and final approval granted in connection with an application for development pursuant to the "Municipal Land Use Law," any plan endorsement and center designations approved pursuant to the "State Planning Act," any permit or certification issued pursuant to the "Water Supply Management Act," any permit granted authorizing the drilling of a well, exemption from a sewerage connection ban granted*, wastewater management plan approved, and pollution discharge elimination system permit pursuant to the "Water Pollution Control Act," any certification granted pursuant to "The Realty Improvement Sewerage and Facilities Act," any certification or approval of water and sewerage facilities for 50 or more units granted pursuant to P.L.1971, c.386, any certification issued and water quality management plan approved pursuant to the "Water Quality Planning Act," any approval granted pursuant to the "Safe Drinking Water Act."

*Note: The continuation of an approval for connection to a sanitary sewer is contingent on the availability of sufficient capacity.

The law specifically **excludes** the following: any permit or approval issued by the government of the United States or any agency or instrumentality thereof, or any permit or approval for which the expiration is determined under Federal law; any permit or approval issued pursuant to the "Pinelands Protection Act," if the extension would result in a violation of federal law, or any State rule or regulation requiring Federal approval; any permit or approval issued within an environmentally sensitive area; any permit or approval within an environmentally sensitive area issued pursuant to the "Highlands Water Protection and Planning Act," or any permit or approval issued within the preservation area of the Highlands Region; any permit or approval issued by the Department of Transportation other than a right-of-way permit or a highway access permit; any permit or approval issued pursuant to the "Flood Hazard Area Control Act," except (a) where work has commenced in any phase or section of the development, on any site improvement or on any buildings or structures or (b) where the permit or approval authorizes work on real property owned by the government or the federal government; any coastal center designated pursuant to the "Coastal Area Facility Review Act," that as of March 15, 2007 (a) had not submitted an application for plan endorsement to the State Planning Commission, and (b) was not in compliance with the provisions of the Coastal Zone Management Rules; any permit or approval within the Highlands planning area located in a municipality subject to the "Highlands Water Protection and Planning Act," that has adopted, as of May 1, 2012, in accordance with the Highlands Water Protection and Planning Council conformance approval, a Highlands master

plan element, a Highlands land use ordinance, or an environmental resource inventory, except that the provisions of this paragraph shall not apply to any permit or approval within a Highlands center designated by the Highlands Water Protection and Planning Council, notwithstanding the adoption by the municipality of a Highlands master plan element, a Highlands land use ordinance, or an environmental resource inventory.

Permit Extension Act of 2008, as amended and extended by P.L. 2012, c.48
Examples of Applying the Act to UCC Permits

The Permit Extension Act extends all permits that were open and valid as of January 1, 2007. Under the UCC rules, a construction permit lapses if (1) no work is done for a year or (2) work, having been started, is discontinued for six months. (See NJ.A.C.5:23-2.16(b)) The following are some examples of how certain scenarios would be affected by the Permit Extension Act:

Examples:

1. A construction permit was obtained prior to January 1, 2006 and no work was done. The permit has lapsed and is not revived by the Permit Extension Act because it was not a valid, open permit on January 1, 2007.
2. A construction permit was obtained on April 1, 2006 and no work was done. The permit was deemed to have lapsed as of April 1, 2007. However, the permit is now deemed to have been revived by the passage of the Permit Extension Act. Since it would have been valid for three more months as of January 1, 2007, it will continue to be valid for three more months as of December 31, 2014, and its new expiration date, if it is not acted upon, will be March 31, 2015.
3. A construction permit was obtained on October 1, 2006 and no work was done. The permit would have been valid for nine more months as of January 1, 2007 and is now deemed to have been revived, and to continue to be valid as of December 31, 2014. However, since a permit that is only valid because it was extended by the Permit Extension Act can only remain valid for six months following the end of the extension period, the permit would only be valid for six more months, and would expire on June 30, 2015.
4. A construction permit is obtained between January 1, 2007 and June 30, 2014. Though the time would not begin to run until December 31, 2014, the permit would expire on June 30, 2015, since the Permit Extension Act does not allow any extensions beyond June 30, 2015 unless the permit would have continued in existence beyond that date had the Permit Extension Act not been adopted.
5. A construction permit is obtained after June 30, 2014. Since the permit is valid for a year, it is unaffected by the June 30, 2015 cut-off date and expires one year from the date of issuance, just as it would have if the Permit Extension Act had not been adopted.

Appendix B: Laboratory Certifications

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES
LABORATORY ACCREDITATION PROGRAM



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

Certifies That

68-03530

Phoenix Environmental Laboratories Inc
587 East Middle Turnpike, Manchester, CT 06040



Having duly met the requirement of
The act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratories Accreditation
(27 Pa. C.S. §§4104-4113) and the
National Environmental Laboratory Accreditation Program Standard

is hereby approved as an

Accredited Laboratory

As more fully described in the attached Scope of Accreditation

Expiration Date: **11/30/2014**

Certificate Number: **008**

Aaren S. Alger, Chief
Laboratory Accreditation Program
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status
PA DEP is a NELAP recognized accreditation body



Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Phoenix Environmental Laboratories Inc

587 East Middle Turnpike

Manchester, CT 06040

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 200.5	4.2	Copper	NELAP	NY	11/14/2013
EPA 200.5	4.2	Lead	NELAP	NY	11/14/2013
EPA 200.7	4.4	Aluminum	NELAP	NY	1/20/2010
EPA 200.7	4.4	Barium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Beryllium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Cadmium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Calcium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Chromium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Copper	NELAP	NY	1/20/2010
EPA 200.7	4.4	Iron	NELAP	NY	1/20/2010
EPA 200.7	4.4	Magnesium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Manganese	NELAP	NY	1/20/2010
EPA 200.7	4.4	Nickel	NELAP	NY	1/20/2010
EPA 200.7	4.4	Silver	NELAP	NY	1/20/2010
EPA 200.7	4.4	Sodium	NELAP	NY	1/20/2010
EPA 200.7	4.4	Zinc	NELAP	NY	1/20/2010
EPA 200.9	2.2	Antimony	NELAP	NY	1/20/2010
EPA 200.9	2.2	Arsenic	NELAP	NY	1/20/2010
EPA 200.9	2.2	Lead	NELAP	NY	1/20/2010
EPA 200.9	2.2	Selenium	NELAP	NY	1/20/2010
EPA 200.9	2.2	Thallium	NELAP	NY	1/20/2010
EPA 245.1	3.0	Mercury	NELAP	NY	11/4/2010
EPA 300.0	2.1	Chloride	NELAP	NY	1/20/2010
EPA 300.0	2.1	Fluoride	NELAP	NY	1/20/2010
EPA 300.0	2.1	Nitrate as N	NELAP	NY	1/20/2010
EPA 300.0	2.1	Nitrite as N	NELAP	NY	1/20/2010
EPA 300.0	2.1	Sulfate	NELAP	NY	1/20/2010
EPA 335.4		Total cyanide	NELAP	NY	1/20/2010
EPA 353.2		Nitrate as N	NELAP	NY	1/20/2010
EPA 504.1	1.1	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	1/20/2010
EPA 504.1	1.1	1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	NY	1/20/2010
EPA 507	2.1	Alachlor (Lasso)	NELAP	NY	1/20/2010
EPA 507	2.1	Atrazine	NELAP	NY	1/20/2010
EPA 507	2.1	Butachlor	NELAP	NY	1/20/2010
EPA 507	2.1	Metolachlor	NELAP	NY	1/20/2010
EPA 507	2.1	Metribuzin	NELAP	NY	11/14/2013
EPA 507	2.1	Simazine	NELAP	NY	1/20/2010



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.



Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 508	3.1	Aldrin (HHDN)	NELAP	NY	1/20/2010
EPA 508	3.1	Chlordane (tech.)	NELAP	NY	1/20/2010
EPA 508	3.1	Dieldrin	NELAP	NY	1/20/2010
EPA 508	3.1	Endrin	NELAP	NY	1/20/2010
EPA 508	3.1	Heptachlor	NELAP	NY	1/20/2010
EPA 508	3.1	Heptachlor epoxide	NELAP	NY	1/20/2010
EPA 508	3.1	Hexachlorobenzene	NELAP	NY	1/20/2010
EPA 508	3.1	Hexachlorocyclopentadiene	NELAP	NY	1/20/2010
EPA 508	3.1	Methoxychlor	NELAP	NY	1/20/2010
EPA 508	3.1	PCBs (screen as individual aroclors)	NELAP	NY	1/20/2010
EPA 508	3.1	Propachlor (Ramrod)	NELAP	NY	1/20/2010
EPA 508	3.1	Toxaphene (Chlorinated camphene)	NELAP	NY	1/20/2010
EPA 508	3.1	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	1/20/2010
EPA 515.1	4.0	2,4,5-TP (Silvex)	NELAP	NY	1/20/2010
EPA 515.1	4.0	2,4-D	NELAP	NY	1/20/2010
EPA 515.1	4.0	Dalapon (2,2-Dichloropropionic acid)	NELAP	NY	1/20/2010
EPA 515.1	4.0	Dicamba	NELAP	NY	1/20/2010
EPA 515.1	4.0	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	NY	1/20/2010
EPA 515.1	4.0	Pentachlorophenol (PCP)	NELAP	NY	1/20/2010
EPA 515.1	4.0	Picloram (4-Amino-3,5,6-trichloro-2-pyridinecarboxylic acid)	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1,1,2-Tetrachloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1,1-Trichloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1,2,2-Tetrachloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1,2-Trichloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1-Dichloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,1-Dichloropropene	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2,3-Trichlorobenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2,4-Trichlorobenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2,4-Trimethylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2-Dichloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,2-Dichloropropane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,3,5-Trimethylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,3-Dichloropropane	NELAP	NY	1/20/2010
EPA 524.2	4.1	1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	2,2-Dichloropropane	NELAP	NY	1/20/2010
EPA 524.2	4.1	2-Chlorotoluene	NELAP	NY	1/20/2010
EPA 524.2	4.1	4-Chlorotoluene	NELAP	NY	1/20/2010
EPA 524.2	4.1	Benzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	Bromobenzene	NELAP	NY	1/20/2010



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.



Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

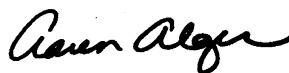
TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 524.2	4.1	Bromochloromethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	Bromodichloromethane	NELAP	NY	11/4/2010
EPA 524.2	4.1	Bromoform	NELAP	NY	11/4/2010
EPA 524.2	4.1	Carbon tetrachloride	NELAP	NY	1/20/2010
EPA 524.2	4.1	Chlorobenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	Chloroethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	Chloroform	NELAP	NY	11/4/2010
EPA 524.2	4.1	Dibromochloromethane	NELAP	NY	11/4/2010
EPA 524.2	4.1	Dibromomethane	NELAP	NY	1/20/2010
EPA 524.2	4.1	Dichlorodifluoromethane (Freon 12)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Ethylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Isopropylbenzene (Cumene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Methyl bromide (Bromomethane)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Methyl chloride (Chloromethane)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Methyl tert-butyl ether (MTBE)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Methylene chloride (Dichloromethane)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Naphthalene	NELAP	NY	11/16/2012
EPA 524.2	4.1	Styrene	NELAP	NY	1/20/2010
EPA 524.2	4.1	Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Toluene	NELAP	NY	1/20/2010
EPA 524.2	4.1	Total trihalomethanes (TTHMs)	NELAP	NY	11/4/2010
EPA 524.2	4.1	Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Trichlorofluoromethane (Freon 11)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Vinyl chloride (Chloroethene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	Xylenes, total	NELAP	NY	1/20/2010
EPA 524.2	4.1	cis-1,2-Dichloroethene	NELAP	NY	1/20/2010
EPA 524.2	4.1	cis-1,3-Dichloropropene	NELAP	NY	1/20/2010
EPA 524.2	4.1	n-Butylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	n-Propylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	p-Isopropyltoluene (4-Isopropyltoluene)	NELAP	NY	1/20/2010
EPA 524.2	4.1	sec-Butylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	tert-Butylbenzene	NELAP	NY	1/20/2010
EPA 524.2	4.1	trans-1,2-Dichloroethene	NELAP	NY	1/20/2010
EPA 524.2	4.1	trans-1,3-Dichloropropene	NELAP	NY	1/20/2010
EPA 525.2	2.0	Benzo[a]pyrene	NELAP	NY	1/20/2010
EPA 525.2	2.0	bis(2-Ethylhexyl) adipate (di(2-Ethylhexyl) adipate)	NELAP	NY	1/20/2010
EPA 525.2	2.0	bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	1/20/2010
EPA 531.2	1.0	3-Hydroxycarbofuran	NELAP	NY	11/4/2010
EPA 531.2	1.0	Aldicarb (Temik)	NELAP	NY	11/4/2010
EPA 531.2	1.0	Aldicarb sulfone	NELAP	NY	11/4/2010
EPA 531.2	1.0	Aldicarb sulfoxide	NELAP	NY	11/4/2010
EPA 531.2	1.0	Carbaryl (Sevin)	NELAP	NY	11/4/2010
EPA 531.2	1.0	Carbofuran (Furaden)	NELAP	NY	11/4/2010



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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 531.2	1.0	Methomyl (Lannate)	NELAP	NY	11/4/2010
EPA 531.2	1.0	Oxamyl (Vydate)	NELAP	NY	11/4/2010
EPA 552.2	1.0	Bromoacetic acid (Monobromoacetic acid, MBAA)	NELAP	NY	1/20/2010
EPA 552.2	1.0	Bromochloroacetic acid (BCAA)	NELAP	NY	11/16/2012
EPA 552.2	1.0	Chloroacetic acid (Monochloroacetic acid, MCAA)	NELAP	NY	1/20/2010
EPA 552.2	1.0	Dibromoacetic acid (DBAA)	NELAP	NY	1/20/2010
EPA 552.2	1.0	Dichloroacetic acid (DCAA)	NELAP	NY	1/20/2010
EPA 552.2	1.0	Trichloroacetic acid (TCAA)	NELAP	NY	1/20/2010
SM 2120 B		Color	NELAP	NY	1/20/2010
SM 2130 B		Turbidity	NELAP	NY	1/20/2010
SM 2320 B		Alkalinity as CaCO ₃	NELAP	NY	1/20/2010
SM 2510 B		Conductivity	NELAP	NY	1/20/2010
SM 2540 C		Residue, filterable (TDS)	NELAP	NY	1/20/2010
SM 4500-F- C		Fluoride	NELAP	NY	1/20/2010
SM 4500-P E		Orthophosphate as P	NELAP	NY	1/20/2010
SM 4500-P F		Orthophosphate as P	NELAP	NY	1/20/2010
SM 4500-SO ₄ D		Sulfate	NELAP	NY	11/16/2012
SM 5310 B		Dissolved organic carbon (DOC)	NELAP	NY	11/16/2012
SM 5310 B		Total organic carbon (TOC)	NELAP	NY	1/20/2010
SM 5310 C		Total organic carbon (TOC)	NELAP	NY	1/20/2010
SM 5540 C		Surfactants as MBAS	NELAP	NY	1/20/2010
SM 5910 B		UV 254	NELAP	NY	1/20/2010

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 1664	A	Oil and grease	NELAP	NY	11/21/2006
EPA 200.7	4.4	Aluminum	NELAP	NY	11/21/2006
EPA 200.7	4.4	Antimony	NELAP	NY	11/21/2006
EPA 200.7	4.4	Arsenic	NELAP	NY	11/21/2006
EPA 200.7	4.4	Barium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Beryllium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Boron	NELAP	NY	11/21/2006
EPA 200.7	4.4	Cadmium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Calcium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Chromium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Cobalt	NELAP	NY	11/21/2006
EPA 200.7	4.4	Copper	NELAP	NY	11/21/2006
EPA 200.7	4.4	Iron	NELAP	NY	11/21/2006
EPA 200.7	4.4	Lead	NELAP	NY	11/21/2006
EPA 200.7	4.4	Magnesium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Manganese	NELAP	NY	11/21/2006
EPA 200.7	4.4	Molybdenum	NELAP	NY	11/21/2006

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Laboratory Scope of Accreditation

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 200.7	4.4	Nickel	NELAP	NY	11/21/2006
EPA 200.7	4.4	Phosphorus, total	NELAP	NY	11/14/2013
EPA 200.7	4.4	Potassium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Selenium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Silver	NELAP	NY	11/21/2006
EPA 200.7	4.4	Sodium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Thallium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Tin	NELAP	NY	11/21/2006
EPA 200.7	4.4	Titanium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Vanadium	NELAP	NY	11/21/2006
EPA 200.7	4.4	Zinc	NELAP	NY	11/21/2006
EPA 200.9	2.2	Thallium	NELAP	NY	11/4/2010
EPA 245.1	3.0	Mercury	NELAP	NY	11/21/2006
EPA 300.0	2.1	Bromide	NELAP	NY	11/21/2006
EPA 300.0	2.1	Chloride	NELAP	NY	11/21/2006
EPA 300.0	2.1	Nitrate as N	NELAP	NY	11/21/2006
EPA 300.0	2.1	Nitrite as N	NELAP	NY	11/21/2006
EPA 300.0	2.1	Sulfate	NELAP	NY	11/21/2006
EPA 3005	A	Preconcentration under acid	NELAP	NY	9/29/2008
EPA 3010	A	Hot plate acid digestion (HNO ₃ + HCl)	NELAP	NY	1/20/2010
EPA 335.4		Total cyanide	NELAP	NY	1/20/2010
EPA 350.1		Ammonia as N	NELAP	NY	11/21/2006
EPA 351.1		Kjeldahl nitrogen, total (TKN)	NELAP	NY	11/21/2006
EPA 3510	C	Separatory funnel liquid-liquid extraction	NELAP	NY	9/29/2008
EPA 3520	C	Continuous liquid-liquid extraction	NELAP	NY	9/29/2008
EPA 353.2		Nitrate as N	NELAP	NY	11/21/2006
EPA 353.2		Nitrite as N	NELAP	NY	11/4/2010
EPA 420.4		Total phenolics	NELAP	NY	11/4/2010
EPA 5030	B	Aqueous-phase purge-and-trap	NELAP	NY	3/30/2010
EPA 6010		Aluminum	NELAP	NY	11/16/2012
EPA 6010		Antimony	NELAP	NY	11/16/2012
EPA 6010		Arsenic	NELAP	NY	11/16/2012
EPA 6010		Barium	NELAP	NY	11/16/2012
EPA 6010		Beryllium	NELAP	NY	11/16/2012
EPA 6010		Boron	NELAP	NY	11/16/2012
EPA 6010		Cadmium	NELAP	NY	11/16/2012
EPA 6010		Calcium	NELAP	NY	11/16/2012
EPA 6010		Chromium	NELAP	NY	11/16/2012
EPA 6010		Cobalt	NELAP	NY	11/16/2012
EPA 6010		Copper	NELAP	NY	11/16/2012
EPA 6010		Iron	NELAP	NY	11/16/2012
EPA 6010		Lead	NELAP	NY	11/16/2012
EPA 6010		Magnesium	NELAP	NY	11/16/2012
EPA 6010		Manganese	NELAP	NY	11/16/2012
EPA 6010		Molybdenum	NELAP	NY	11/16/2012

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Laboratory Scope of Accreditation

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 6010		Nickel	NELAP	NY	11/16/2012
EPA 6010		Potassium	NELAP	NY	11/16/2012
EPA 6010		Selenium	NELAP	NY	11/16/2012
EPA 6010		Silver	NELAP	NY	11/16/2012
EPA 6010		Sodium	NELAP	NY	11/16/2012
EPA 6010		Strontium	NELAP	NY	11/16/2012
EPA 6010		Thallium	NELAP	NY	11/16/2012
EPA 6010		Tin	NELAP	NY	11/16/2012
EPA 6010		Titanium	NELAP	NY	11/16/2012
EPA 6010		Vanadium	NELAP	NY	11/16/2012
EPA 6010		Zinc	NELAP	NY	11/16/2012
EPA 608		4,4'-DDD	NELAP	NY	11/21/2006
EPA 608		4,4'-DDE	NELAP	NY	11/21/2006
EPA 608		4,4'-DDT	NELAP	NY	11/21/2006
EPA 608		Aldrin (HHDN)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1016 (PCB-1016)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1221 (PCB-1221)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1232 (PCB-1232)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1242 (PCB-1242)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1248 (PCB-1248)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1254 (PCB-1254)	NELAP	NY	11/21/2006
EPA 608		Aroclor-1260 (PCB-1260)	NELAP	NY	11/21/2006
EPA 608		Chlordane (tech.)	NELAP	NY	11/21/2006
EPA 608		Dieldrin	NELAP	NY	11/21/2006
EPA 608		Endosulfan I	NELAP	NY	11/21/2006
EPA 608		Endosulfan II	NELAP	NY	11/21/2006
EPA 608		Endosulfan sulfate	NELAP	NY	11/21/2006
EPA 608		Endrin	NELAP	NY	11/21/2006
EPA 608		Endrin aldehyde	NELAP	NY	11/21/2006
EPA 608		Heptachlor	NELAP	NY	11/21/2006
EPA 608		Heptachlor epoxide	NELAP	NY	11/21/2006
EPA 608		Methoxychlor	NELAP	NY	1/20/2010
EPA 608		Toxaphene (Chlorinated camphene)	NELAP	NY	11/21/2006
EPA 608		alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 608		beta-BHC (beta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 608		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 608		gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 624		1,1,1-Trichloroethane	NELAP	NY	11/21/2006
EPA 624		1,1,2,2-Tetrachloroethane	NELAP	NY	11/21/2006
EPA 624		1,1,2-Trichloroethane	NELAP	NY	11/21/2006
EPA 624		1,1-Dichloroethane	NELAP	NY	11/21/2006
EPA 624		1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	11/21/2006
EPA 624		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 624		1,2-Dichloroethane	NELAP	NY	11/21/2006
EPA 624		1,2-Dichloropropane	NELAP	NY	11/21/2006



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Laboratory Scope of Accreditation

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 624		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 624		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 624		2-Chloroethyl vinyl ether	NELAP	NY	11/21/2006
EPA 624		Acrolein (Propenal)	NELAP	NY	11/21/2006
EPA 624		Acrylonitrile	NELAP	NY	11/21/2006
EPA 624		Benzene	NELAP	NY	11/21/2006
EPA 624		Bromodichloromethane	NELAP	NY	11/21/2006
EPA 624		Bromoform	NELAP	NY	11/21/2006
EPA 624		Bromomethane (Methyl bromide)	NELAP	NY	11/21/2006
EPA 624		Carbon tetrachloride	NELAP	NY	11/21/2006
EPA 624		Chlorobenzene	NELAP	NY	11/21/2006
EPA 624		Chloroethane	NELAP	NY	11/21/2006
EPA 624		Chloroform	NELAP	NY	11/21/2006
EPA 624		Chloromethane (Methyl chloride)	NELAP	NY	11/21/2006
EPA 624		Dibromochloromethane	NELAP	NY	11/21/2006
EPA 624		Ethylbenzene	NELAP	NY	11/21/2006
EPA 624		Methylene chloride (Dichloromethane)	NELAP	NY	11/21/2006
EPA 624		Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	11/21/2006
EPA 624		Toluene	NELAP	NY	11/21/2006
EPA 624		Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	11/21/2006
EPA 624		Trichlorofluoromethane (Freon 11)	NELAP	NY	11/21/2006
EPA 624		Vinyl chloride (Chloroethene)	NELAP	NY	11/21/2006
EPA 624		Xylenes, total	NELAP	NY	11/21/2006
EPA 624		cis-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 624		trans-1,2-Dichloroethene	NELAP	NY	11/21/2006
EPA 624		trans-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 625		1,2,4-Trichlorobenzene	NELAP	NY	11/21/2006
EPA 625		2,4,5-Trichlorophenol	NELAP	NY	11/21/2006
EPA 625		2,4,6-Trichlorophenol	NELAP	NY	11/21/2006
EPA 625		2,4-Dichlorophenol	NELAP	NY	11/21/2006
EPA 625		2,4-Dimethylphenol	NELAP	NY	11/21/2006
EPA 625		2,4-Dinitrophenol	NELAP	NY	11/21/2006
EPA 625		2,4-Dinitrotoluene (2,4-DNT)	NELAP	NY	11/21/2006
EPA 625		2,6-Dinitrotoluene (2,6-DNT)	NELAP	NY	11/21/2006
EPA 625		2-Chloronaphthalene	NELAP	NY	11/21/2006
EPA 625		2-Chlorophenol	NELAP	NY	11/21/2006
EPA 625		2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	NELAP	NY	11/21/2006
EPA 625		2-Nitrophenol	NELAP	NY	11/21/2006
EPA 625		4-Bromophenyl phenyl ether	NELAP	NY	11/21/2006
EPA 625		4-Chloro-3-methylphenol	NELAP	NY	11/21/2006
EPA 625		4-Chlorophenyl phenyl ether	NELAP	NY	11/21/2006
EPA 625		4-Nitrophenol	NELAP	NY	11/21/2006
EPA 625		Acenaphthene	NELAP	NY	11/21/2006
EPA 625		Acenaphthylene	NELAP	NY	11/21/2006
EPA 625		Anthracene	NELAP	NY	11/21/2006



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Laboratory Scope of Accreditation

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 625		Benzo[a]anthracene	NELAP	NY	11/21/2006
EPA 625		Benzo[a]pyrene	NELAP	NY	11/21/2006
EPA 625		Benzo[b]fluoranthene	NELAP	NY	11/21/2006
EPA 625		Benzo[ghi]perylene	NELAP	NY	11/21/2006
EPA 625		Benzo[k]fluoranthene	NELAP	NY	11/21/2006
EPA 625		Butyl benzyl phthalate (Benzyl butyl phthalate)	NELAP	NY	11/21/2006
EPA 625		Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/21/2006
EPA 625		Di-n-butyl phthalate	NELAP	NY	11/21/2006
EPA 625		Di-n-octyl phthalate	NELAP	NY	11/21/2006
EPA 625		Dibenzo[a,h]anthracene	NELAP	NY	11/21/2006
EPA 625		Diethyl phthalate	NELAP	NY	3/30/2010
EPA 625		Dimethyl phthalate	NELAP	NY	11/21/2006
EPA 625		Fluoranthene	NELAP	NY	11/21/2006
EPA 625		Fluorene	NELAP	NY	11/21/2006
EPA 625		Hexachlorobenzene	NELAP	NY	11/21/2006
EPA 625		Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/21/2006
EPA 625		Hexachlorocyclopentadiene	NELAP	NY	11/21/2006
EPA 625		Hexachloroethane	NELAP	NY	11/21/2006
EPA 625		Indeno(1,2,3-cd)pyrene	NELAP	NY	11/21/2006
EPA 625		Isophorone	NELAP	NY	11/21/2006
EPA 625		N-Nitrosodi-n-propylamine	NELAP	NY	11/21/2006
EPA 625		N-Nitrosodimethylamine	NELAP	NY	11/21/2006
EPA 625		N-Nitrosodiphenylamine	NELAP	NY	11/21/2006
EPA 625		Naphthalene	NELAP	NY	11/21/2006
EPA 625		Nitrobenzene	NELAP	NY	11/21/2006
EPA 625		Pentachlorophenol (PCP)	NELAP	NY	11/21/2006
EPA 625		Phenanthrene	NELAP	NY	11/21/2006
EPA 625		Phenol	NELAP	NY	11/21/2006
EPA 625		Pyrene	NELAP	NY	11/21/2006
EPA 625		bis(2-Chloroethoxy)methane	NELAP	NY	11/21/2006
EPA 625		bis(2-Chloroethyl) ether	NELAP	NY	11/21/2006
EPA 625		bis(2-Chloroisopropyl) ether	NELAP	NY	11/21/2006
EPA 625		bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	11/21/2006
EPA 7196		Chromium VI	NELAP	NY	11/16/2012
EPA 7470		Mercury	NELAP	NY	11/16/2012
EPA 8011		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	8/11/2011
EPA 8011		1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	NY	8/11/2011
EPA 8015		Diesel-range organics (DRO)	NELAP	NY	11/14/2013
EPA 8015		Ethanol	NELAP	NY	11/16/2012
EPA 8015		Gasoline-range organics (GRO)	NELAP	NY	11/14/2013
EPA 8015		Isobutyl alcohol (2-Methyl-1-propanol)	NELAP	NY	1/20/2010
EPA 8015	D	Nonhalogenated organics by GC/FID	NELAP	NY	11/14/2013

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8015	C	Nonhalogenated organics by GC/FID	NELAP	NY	11/14/2013
EPA 8081		4,4'-DDD	NELAP	NY	11/21/2006
EPA 8081		4,4'-DDE	NELAP	NY	11/21/2006
EPA 8081		4,4'-DDT	NELAP	NY	11/21/2006
EPA 8081		Aldrin (HHDN)	NELAP	NY	11/21/2006
EPA 8081		Chlordane (tech.)	NELAP	NY	11/21/2006
EPA 8081		Dieldrin	NELAP	NY	11/21/2006
EPA 8081		Endosulfan I	NELAP	NY	11/21/2006
EPA 8081		Endosulfan II	NELAP	NY	11/21/2006
EPA 8081		Endosulfan sulfate	NELAP	NY	11/21/2006
EPA 8081		Endrin	NELAP	NY	11/21/2006
EPA 8081		Endrin aldehyde	NELAP	NY	11/21/2006
EPA 8081		Endrin ketone	NELAP	NY	11/4/2010
EPA 8081		Heptachlor	NELAP	NY	11/21/2006
EPA 8081		Heptachlor epoxide	NELAP	NY	11/21/2006
EPA 8081		Methoxychlor	NELAP	NY	11/21/2006
EPA 8081	B	Organochlorine pesticides by GC/ECD	NELAP	NY	11/14/2013
EPA 8081		Toxaphene (Chlorinated camphene)	NELAP	NY	11/21/2006
EPA 8081		alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081		alpha-Chlordane	NELAP	NY	11/16/2012
EPA 8081		beta-BHC (beta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081		gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1016 (PCB-1016)	NELAP	NY	11/21/2006
EPA 8082	A	Aroclor-1221 (PCB-1221)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1232 (PCB-1232)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1242 (PCB-1242)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1248 (PCB-1248)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1254 (PCB-1254)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1260 (PCB-1260)	NELAP	NY	11/21/2006
EPA 8082		PCBs by GC/ECD	NELAP	NY	11/14/2013
EPA 8141		Atrazine	NELAP	NY	11/16/2012
EPA 8141		Azinphos-methyl (Guthion)	NELAP	NY	11/16/2012
EPA 8141		Diazinon (Spectracide)	NELAP	NY	11/16/2012
EPA 8141	B	Disulfoton	NELAP	NY	11/16/2012
EPA 8141		Famphur	NELAP	NY	11/16/2012
EPA 8141		Malathion	NELAP	NY	11/21/2006
EPA 8141		Methyl parathion (Parathion, methyl)	NELAP	NY	11/16/2012
EPA 8141		Organophosphorus compounds by GC/NPD	NELAP	NY	11/14/2013
EPA 8141		Organophosphorus compounds by GC/NPD	NELAP	NY	11/14/2013
EPA 8141		Simazine	NELAP	NY	1/20/2010
EPA 8151		2,4,5-T	NELAP	NY	11/21/2006
EPA 8151		2,4,5-TP (Silvex)	NELAP	NY	11/21/2006
EPA 8151		2,4-D	NELAP	NY	11/21/2006
EPA 8151		2,4-DB (Butoxon)	NELAP	NY	11/4/2010

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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8151	A	Chlorinated herbicides by GC/ECD	NELAP	NY	11/14/2013
EPA 8151		Dalapon (2,2-Dichloropropionic acid)	NELAP	NY	1/20/2010
EPA 8151		Dicamba	NELAP	NY	11/21/2006
EPA 8151		Dichloroprop (Dichloroprop)	NELAP	NY	11/16/2012
EPA 8151		Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	NY	1/20/2010
EPA 8260		1,1,1,2-Tetrachloroethane	NELAP	NY	1/20/2010
EPA 8260		1,1,1-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1,2,2-Tetrachloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1,2-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	11/21/2006
EPA 8260		1,1-Dichloropropene	NELAP	NY	11/4/2010
EPA 8260		1,2,3-Trichlorobenzene	NELAP	NY	11/4/2010
EPA 8260		1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	NY	11/4/2010
EPA 8260		1,2,4-Trichlorobenzene	NELAP	NY	11/16/2012
EPA 8260		1,2,4-Trimethylbenzene	NELAP	NY	11/4/2010
EPA 8260		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	1/20/2010
EPA 8260		1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	NY	1/20/2010
EPA 8260		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260		1,2-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,2-Dichloropropane	NELAP	NY	11/21/2006
EPA 8260		1,3,5-Trimethylbenzene	NELAP	NY	1/20/2010
EPA 8260		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260		1,3-Dichloropropane	NELAP	NY	1/20/2010
EPA 8260		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260		1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	1/20/2010
EPA 8260		2,2-Dichloropropane	NELAP	NY	1/20/2010
EPA 8260		2-Butanone (Methyl ethyl ketone, MEK)	NELAP	NY	11/21/2006
EPA 8260		2-Chloroethyl vinyl ether	NELAP	NY	11/21/2006
EPA 8260		2-Chlorotoluene	NELAP	NY	11/4/2010
EPA 8260		2-Hexanone	NELAP	NY	11/16/2012
EPA 8260		4-Chlorotoluene	NELAP	NY	11/4/2010
EPA 8260		4-Methyl-2-pentanone (MIBK)	NELAP	NY	11/16/2012
EPA 8260		Acetone	NELAP	NY	11/4/2010
EPA 8260		Acrolein (Propenal)	NELAP	NY	11/21/2006
EPA 8260		Acrylonitrile	NELAP	NY	11/21/2006
EPA 8260		Benzene	NELAP	NY	11/21/2006
EPA 8260		Bromobenzene	NELAP	NY	11/16/2012
EPA 8260		Bromochloromethane	NELAP	NY	1/20/2010
EPA 8260		Bromodichloromethane	NELAP	NY	11/21/2006
EPA 8260		Bromoform	NELAP	NY	11/21/2006
EPA 8260		Bromomethane (Methyl bromide)	NELAP	NY	11/21/2006
EPA 8260		Carbon disulfide	NELAP	NY	1/20/2010

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Laboratory Scope of Accreditation

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

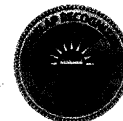
(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8260		Carbon tetrachloride	NELAP	NY	11/21/2006
EPA 8260		Chlorobenzene	NELAP	NY	11/21/2006
EPA 8260		Chloroethane	NELAP	NY	11/21/2006
EPA 8260		Chloroform	NELAP	NY	11/21/2006
EPA 8260		Chloromethane (Methyl chloride)	NELAP	NY	11/21/2006
EPA 8260		Cyclohexane	NELAP	NY	11/16/2012
EPA 8260		Dibromochloromethane	NELAP	NY	11/21/2006
EPA 8260		Dibromomethane	NELAP	NY	1/20/2010
EPA 8260		Dichlorodifluoromethane (Freon 12)	NELAP	NY	11/21/2006
EPA 8260		Diisopropyl ether (DIPE)	NELAP	NY	11/16/2012
EPA 8260		Ethanol	NELAP	NY	1/20/2010
EPA 8260		Ethylbenzene	NELAP	NY	11/21/2006
EPA 8260		Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/16/2012
EPA 8260		Isopropylbenzene (Cumene)	NELAP	NY	11/4/2010
EPA 8260		Methyl tert-butyl ether (MTBE)	NELAP	NY	1/20/2010
EPA 8260		Methylcyclohexane	NELAP	NY	11/16/2012
EPA 8260		Methylene chloride (Dichloromethane)	NELAP	NY	11/21/2006
EPA 8260		Naphthalene	NELAP	NY	11/16/2012
EPA 8260		Styrene	NELAP	NY	1/20/2010
EPA 8260		Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	11/21/2006
EPA 8260		Toluene	NELAP	NY	11/21/2006
EPA 8260		Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	11/21/2006
EPA 8260		Trichlorofluoromethane (Freon 11)	NELAP	NY	11/21/2006
EPA 8260	C	VOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8260		Vinyl acetate	NELAP	NY	1/20/2010
EPA 8260		Vinyl chloride (Chloroethene)	NELAP	NY	11/21/2006
EPA 8260		Xylenes, total	NELAP	NY	11/21/2006
EPA 8260		cis-1,2-Dichloroethene	NELAP	NY	1/20/2010
EPA 8260		cis-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260		n-Butylbenzene	NELAP	NY	1/20/2010
EPA 8260		n-Propylbenzene	NELAP	NY	1/20/2010
EPA 8260		sec-Butylbenzene	NELAP	NY	1/20/2010
EPA 8260		tert-Amyl methyl ether (TAME)	NELAP	NY	11/16/2012
EPA 8260		tert-Butyl alcohol (2-Methyl-2-propanol)	NELAP	NY	1/20/2010
EPA 8260		tert-Butylbenzene	NELAP	NY	11/4/2010
EPA 8260		trans-1,2-Dichloroethene	NELAP	NY	11/21/2006
EPA 8260		trans-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260		trans-1,4-Dichloro-2-butene	NELAP	NY	1/20/2010
EPA 8270		1,2,4,5-Tetrachlorobenzene	NELAP	NY	11/16/2012
EPA 8270		1,2,4-Trichlorobenzene	NELAP	NY	11/21/2006
EPA 8270		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270		1,2-Diphenylhydrazine	NELAP	NY	11/16/2012
EPA 8270		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270		2,3,4,6-Tetrachlorophenol	NELAP	NY	11/16/2012

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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		2,4,5-Trichlorophenol	NELAP	NY	11/21/2006
EPA 8270		2,4,6-Trichlorophenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dichlorophenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dimethylphenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dinitrophenol	NELAP	NY	11/16/2012
EPA 8270		2,4-Dinitrotoluene (2,4-DNT)	NELAP	NY	11/21/2006
EPA 8270		2,6-Dinitrotoluene (2,6-DNT)	NELAP	NY	11/21/2006
EPA 8270		2-Chloronaphthalene	NELAP	NY	11/21/2006
EPA 8270		2-Chlorophenol	NELAP	NY	11/21/2006
EPA 8270		2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	NELAP	NY	11/21/2006
EPA 8270		2-Methylnaphthalene	NELAP	NY	11/16/2012
EPA 8270		2-Methylphenol (o-Cresol)	NELAP	NY	11/4/2010
EPA 8270		2-Nitroaniline	NELAP	NY	11/16/2012
EPA 8270		2-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270		3+4-Methylphenol (m+p-Cresol)	NELAP	NY	11/16/2012
EPA 8270		3,3'-Dichlorobenzidine	NELAP	NY	11/21/2006
EPA 8270		3-Nitroaniline	NELAP	NY	11/16/2012
EPA 8270		4-Bromophenyl phenyl ether	NELAP	NY	11/21/2006
EPA 8270		4-Chloro-3-methylphenol	NELAP	NY	11/21/2006
EPA 8270		4-Chloroaniline	NELAP	NY	11/16/2012
EPA 8270		4-Chlorophenyl phenyl ether	NELAP	NY	11/21/2006
EPA 8270		4-Nitroaniline	NELAP	NY	11/16/2012
EPA 8270		4-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270		Acenaphthene	NELAP	NY	11/21/2006
EPA 8270		Acenaphthylene	NELAP	NY	11/21/2006
EPA 8270		Acetophenone	NELAP	NY	11/16/2012
EPA 8270		Aniline	NELAP	NY	11/16/2012
EPA 8270		Anthracene	NELAP	NY	11/21/2006
EPA 8270		Benzidine	NELAP	NY	11/21/2006
EPA 8270		Benzo[a]anthracene	NELAP	NY	11/21/2006
EPA 8270		Benzo[a]pyrene	NELAP	NY	11/21/2006
EPA 8270		Benzo[b]fluoranthene	NELAP	NY	11/21/2006
EPA 8270		Benzo[ghi]perylene	NELAP	NY	11/21/2006
EPA 8270		Benzo[k]fluoranthene	NELAP	NY	11/21/2006
EPA 8270		Benzoic acid	NELAP	NY	11/16/2012
EPA 8270		Benzyl alcohol	NELAP	NY	11/16/2012
EPA 8270		Benzyl butyl phthalate (Butyl benzyl phthalate)	NELAP	NY	11/21/2006
EPA 8270		Carbazole	NELAP	NY	1/20/2010
EPA 8270		Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/21/2006
EPA 8270		Di-n-butyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Di-n-octyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Dibenzo[a,h]anthracene	NELAP	NY	11/21/2006
EPA 8270		Dibenzofuran	NELAP	NY	1/20/2010
EPA 8270		Diethyl phthalate	NELAP	NY	1/20/2010



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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		Dimethyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Fluoranthene	NELAP	NY	11/21/2006
EPA 8270		Fluorene	NELAP	NY	11/21/2006
EPA 8270		Hexachlorobenzene	NELAP	NY	11/21/2006
EPA 8270		Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/21/2006
EPA 8270		Hexachlorocyclopentadiene	NELAP	NY	11/21/2006
EPA 8270		Hexachloroethane	NELAP	NY	11/21/2006
EPA 8270		Indeno(1,2,3-cd)pyrene	NELAP	NY	11/21/2006
EPA 8270		Isophorone	NELAP	NY	11/21/2006
EPA 8270		N-Nitrosodi-n-propylamine	NELAP	NY	11/21/2006
EPA 8270		N-Nitrosodimethylamine	NELAP	NY	11/21/2006
EPA 8270		N-Nitrosodiphenylamine	NELAP	NY	11/21/2006
EPA 8270		Naphthalene	NELAP	NY	11/21/2006
EPA 8270		Nitrobenzene	NELAP	NY	11/21/2006
EPA 8270		Pentachloronitrobenzene (PCNB)	NELAP	NY	11/16/2012
EPA 8270		Pentachlorophenol (PCP)	NELAP	NY	11/21/2006
EPA 8270		Phenanthrene	NELAP	NY	11/21/2006
EPA 8270		Phenol	NELAP	NY	11/21/2006
EPA 8270		Pyrene	NELAP	NY	11/21/2006
EPA 8270		Pyridine	NELAP	NY	11/21/2006
EPA 8270	D	SOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8270		bis(2-Chloroethoxy)methane	NELAP	NY	11/21/2006
EPA 8270		bis(2-Chloroethyl) ether	NELAP	NY	11/21/2006
EPA 8270		bis(2-Chloroisopropyl) ether	NELAP	NY	11/21/2006
EPA 8270		bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	11/21/2006
EPA 8315	A	Carbonyl compounds by HPLC	NELAP	NY	11/14/2013
EPA 8315		Formaldehyde	NELAP	NY	11/16/2012
EPA 9070	A	Oil and grease	NELAP	NY	11/14/2013
SM 2120 B		Color	NELAP	NY	9/26/2007
SM 2130 B		Turbidity	NELAP	NY	11/4/2010
SM 2310 B		Acidity as CaCO ₃	NELAP	NY	11/21/2006
SM 2320 B		Alkalinity as CaCO ₃	NELAP	NY	11/21/2006
SM 2510 B		Conductivity	NELAP	NY	11/21/2006
SM 2540 B		Residue, total	NELAP	NY	11/21/2006
SM 2540 C		Residue, filterable (TDS)	NELAP	NY	11/21/2006
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	NY	11/21/2006
SM 2540 F		Residue, settleable	NELAP	NY	1/20/2010
SM 3113 B		Antimony	NELAP	NY	11/21/2006
SM 3113 B		Arsenic	NELAP	NY	11/21/2006
SM 3113 B		Lead	NELAP	NY	11/21/2006
SM 3113 B		Selenium	NELAP	NY	11/21/2006
SM 3113 B		Silver	NELAP	NY	9/26/2007
SM 3500-Cr D	18/19	Chromium VI	NELAP	NY	11/21/2006
SM 4500-CN- G		Amenable cyanide	NELAP	NY	11/16/2012
SM 4500-Cl G		Total residual chlorine	NELAP	NY	8/11/2011

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Laboratory Scope of Accreditation

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DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
SM 4500-Cl- E		Chloride	NELAP	NY	11/21/2006
SM 4500-P B		Preliminary treatment of phosphate samples	NELAP	NY	11/14/2013
SM 4500-P E		Orthophosphate as P	NELAP	NY	11/21/2006
SM 4500-P E		Phosphorus, total	NELAP	NY	11/21/2006
SM 4500-P F		Orthophosphate as P	NELAP	NY	9/26/2007
SM 4500-S D		Sulfide	NELAP	NY	11/16/2012
SM 4500-SO4 D		Sulfate	NELAP	NY	9/26/2007
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	NY	9/26/2007
SM 5210 B		Carbonaceous BOD (CBOD)	NELAP	NY	11/21/2006
SM 5220 D		Chemical oxygen demand (COD)	NELAP	NY	11/21/2006
SM 5540 C		Surfactants as MBAS	NELAP	NY	11/21/2006

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 1010		Ignitability	NELAP	NY	11/21/2006
EPA 1311		Toxicity characteristic leaching procedure (TCLP)	NELAP	NY	11/21/2006
EPA 1312		Synthetic precipitation leaching procedure (SPLP)	NELAP	NY	11/4/2010
EPA 3050	B	Acid digestion of solids	NELAP	NY	9/26/2007
EPA 3060	A	Alkaline digestion of Cr(VI)	NELAP	NY	3/30/2010
EPA 3540	C	Soxhlet extraction	NELAP	NY	1/20/2010
EPA 3545	A	Pressurized fluid extraction (PFE)	NELAP	NY	11/16/2012
EPA 3550	B	Ultrasonic extraction	NELAP	NY	9/26/2007
EPA 3580	A	Waste dilution	NELAP	NY	9/26/2007
EPA 5021		Equilibrium headspace	NELAP	NY	11/16/2012
EPA 5035		Closed-system purge-and-trap (bisulfate option)	NELAP	NY	9/26/2007
EPA 5035		Closed-system purge-and-trap (methanol option)	NELAP	NY	9/26/2007
EPA 5035		Closed-system purge-and-trap (unpreserved)	NELAP	NY	9/26/2007
EPA 6010		Aluminum	NELAP	NY	11/16/2012
EPA 6010		Antimony	NELAP	NY	11/16/2012
EPA 6010		Arsenic	NELAP	NY	11/16/2012
EPA 6010		Barium	NELAP	NY	11/16/2012
EPA 6010		Beryllium	NELAP	NY	11/16/2012
EPA 6010		Boron	NELAP	NY	11/16/2012
EPA 6010		Cadmium	NELAP	NY	11/16/2012
EPA 6010		Calcium	NELAP	NY	11/16/2012
EPA 6010		Chromium	NELAP	NY	11/16/2012
EPA 6010		Cobalt	NELAP	NY	11/16/2012
EPA 6010		Copper	NELAP	NY	11/16/2012
EPA 6010		Iron	NELAP	NY	11/16/2012
EPA 6010		Lead	NELAP	NY	11/16/2012
EPA 6010		Magnesium	NELAP	NY	11/16/2012

Raven Alger

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(860) 645-1102

PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 6010		Manganese	NELAP	NY	11/16/2012
EPA 6010		Molybdenum	NELAP	NY	11/16/2012
EPA 6010		Nickel	NELAP	NY	11/16/2012
EPA 6010		Potassium	NELAP	NY	11/16/2012
EPA 6010		Selenium	NELAP	NY	11/16/2012
EPA 6010		Silver	NELAP	NY	11/16/2012
EPA 6010		Sodium	NELAP	NY	11/16/2012
EPA 6010		Strontium	NELAP	NY	11/4/2010
EPA 6010		Thallium	NELAP	NY	11/16/2012
EPA 6010		Tin	NELAP	NY	11/16/2012
EPA 6010		Titanium	NELAP	NY	11/16/2012
EPA 6010		Vanadium	NELAP	NY	11/16/2012
EPA 6010		Zinc	NELAP	NY	11/16/2012
EPA 7.3.3.2		Reactive cyanide	NELAP	NY	11/21/2006
EPA 7.3.4.2		Reactive sulfide	NELAP	NY	11/21/2006
EPA 7196		Chromium VI	NELAP	NY	11/16/2012
EPA 7471		Mercury	NELAP	NY	11/16/2012
EPA 8015		Diesel-range organics (DRO)	NELAP	NY	11/4/2010
EPA 8015		Ethylene glycol	NELAP	NY	11/4/2010
EPA 8015		Gasoline-range organics (GRO)	NELAP	NY	11/4/2010
EPA 8015		Isobutyl alcohol (2-Methyl-1-propanol)	NELAP	NY	11/4/2010
EPA 8015	C	Nonhalogenated organics by GC/FID	NELAP	NY	11/14/2013
EPA 8015	D	Nonhalogenated organics by GC/FID	NELAP	NY	11/14/2013
EPA 8081		4,4'-DDD	NELAP	NY	11/21/2006
EPA 8081		4,4'-DDE	NELAP	NY	11/21/2006
EPA 8081		4,4'-DDT	NELAP	NY	11/21/2006
EPA 8081		Aldrin (HHDN)	NELAP	NY	11/21/2006
EPA 8081		Chlordane (tech.)	NELAP	NY	11/21/2006
EPA 8081		Dieldrin	NELAP	NY	11/21/2006
EPA 8081		Endosulfan I	NELAP	NY	11/21/2006
EPA 8081		Endosulfan II	NELAP	NY	11/21/2006
EPA 8081		Endosulfan sulfate	NELAP	NY	11/21/2006
EPA 8081		Endrin	NELAP	NY	11/21/2006
EPA 8081		Endrin aldehyde	NELAP	NY	11/21/2006
EPA 8081		Endrin ketone	NELAP	NY	11/4/2010
EPA 8081		Heptachlor	NELAP	NY	11/21/2006
EPA 8081		Heptachlor epoxide	NELAP	NY	11/21/2006
EPA 8081		Methoxychlor	NELAP	NY	11/21/2006
EPA 8081	B	Organochlorine pesticides by GC/ECD	NELAP	NY	11/14/2013
EPA 8081		Toxaphene (Chlorinated camphene)	NELAP	NY	11/21/2006
EPA 8081		alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081		alpha-Chlordane	NELAP	NY	11/16/2012
EPA 8081		beta-BHC (beta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	NY	11/21/2006
EPA 8081		gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	NELAP	NY	11/21/2006



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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530
PADWIS ID: 03530

EPA Lab Code: CT00007

TNI Code:

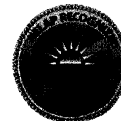
(860) 645-1102

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8081		gamma-Chlordane	NELAP	NY	11/16/2012
EPA 8082		Aroclor-1016 (PCB-1016)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1221 (PCB-1221)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1232 (PCB-1232)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1242 (PCB-1242)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1248 (PCB-1248)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1254 (PCB-1254)	NELAP	NY	11/21/2006
EPA 8082		Aroclor-1260 (PCB-1260)	NELAP	NY	11/21/2006
EPA 8082	A	PCBs by GC/ECD	NELAP	NY	11/14/2013
EPA 8141		Azinphos-ethyl (Ethyl guthion)	NELAP	NY	11/16/2012
EPA 8141		Azinphos-methyl (Guthion)	NELAP	NY	11/21/2006
EPA 8141		Diazinon (Spectracide)	NELAP	NY	11/21/2006
EPA 8141		Disulfoton	NELAP	NY	11/21/2006
EPA 8141		Famphur	NELAP	NY	11/16/2012
EPA 8141		Malathion	NELAP	NY	11/21/2006
EPA 8141	B	Organophosphorus compounds by GC/NPD	NELAP	NY	11/14/2013
EPA 8141	A	Organophosphorus compounds by GC/NPD	NELAP	NY	11/14/2013
EPA 8141		Simazine	NELAP	NY	1/20/2010
EPA 8151		2,4,5-T	NELAP	NY	11/21/2006
EPA 8151		2,4,5-TP (Silvex)	NELAP	NY	11/21/2006
EPA 8151		2,4-D	NELAP	NY	11/21/2006
EPA 8151		2,4-DB (Butoxon)	NELAP	NY	1/20/2010
EPA 8151	A	Chlorinated herbicides by GC/ECD	NELAP	NY	11/14/2013
EPA 8151		Dalapon (2,2-Dichloropropionic acid)	NELAP	NY	11/4/2010
EPA 8151		Dicamba	NELAP	NY	11/21/2006
EPA 8151		Dichloroprop (Dichloroprop)	NELAP	NY	1/20/2010
EPA 8151		Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	NY	11/4/2010
EPA 8151		MCPA	NELAP	NY	1/20/2010
EPA 8151		MCPP (Mecoprop)	NELAP	NY	1/20/2010
EPA 8151		Pentachlorophenol (PCP)	NELAP	NY	11/16/2012
EPA 8260		1,1,1-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1,2,2-Tetrachloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1,2-Trichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	NY	11/21/2006
EPA 8260		1,1-Dichloropropene	NELAP	NY	1/20/2010
EPA 8260		1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	NY	11/4/2010
EPA 8260		1,2,4-Trichlorobenzene	NELAP	NY	11/16/2012
EPA 8260		1,2,4-Trimethylbenzene	NELAP	NY	11/4/2010
EPA 8260		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	NY	1/20/2010
EPA 8260		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260		1,2-Dichloroethane	NELAP	NY	11/21/2006
EPA 8260		1,2-Dichloropropane	NELAP	NY	11/21/2006
EPA 8260		1,3,5-Trimethylbenzene	NELAP	NY	1/20/2010



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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8260		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260		1,3-Dichloropropane	NELAP	NY	1/20/2010
EPA 8260		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/21/2006
EPA 8260		1,4-Dioxane (1,4-Diethyleneoxide)	NELAP	NY	1/20/2010
EPA 8260		2,2-Dichloropropane	NELAP	NY	1/20/2010
EPA 8260		2-Butanone (Methyl ethyl ketone, MEK)	NELAP	NY	1/20/2010
EPA 8260		2-Chloroethyl vinyl ether	NELAP	NY	11/21/2006
EPA 8260		2-Chlorotoluene	NELAP	NY	1/20/2010
EPA 8260		2-Hexanone	NELAP	NY	1/20/2010
EPA 8260		4-Chlorotoluene	NELAP	NY	1/20/2010
EPA 8260		4-Methyl-2-pentanone (MIBK)	NELAP	NY	11/4/2010
EPA 8260		Acetone	NELAP	NY	11/4/2010
EPA 8260		Acrolein (Propenal)	NELAP	NY	11/21/2006
EPA 8260		Acrylonitrile	NELAP	NY	11/21/2006
EPA 8260		Benzene	NELAP	NY	11/21/2006
EPA 8260		Benzyl chloride	NELAP	NY	11/21/2006
EPA 8260		Bromobenzene	NELAP	NY	1/20/2010
EPA 8260		Bromochloromethane	NELAP	NY	1/20/2010
EPA 8260		Bromodichloromethane	NELAP	NY	11/21/2006
EPA 8260		Bromoform	NELAP	NY	11/21/2006
EPA 8260		Bromomethane (Methyl bromide)	NELAP	NY	11/21/2006
EPA 8260		Carbon disulfide	NELAP	NY	1/20/2010
EPA 8260		Carbon tetrachloride	NELAP	NY	11/21/2006
EPA 8260		Chlorobenzene	NELAP	NY	11/21/2006
EPA 8260		Chloroethane	NELAP	NY	11/21/2006
EPA 8260		Chloroform	NELAP	NY	11/21/2006
EPA 8260		Chloromethane (Methyl chloride)	NELAP	NY	11/21/2006
EPA 8260		Dibromochloromethane	NELAP	NY	11/21/2006
EPA 8260		Dibromomethane	NELAP	NY	1/20/2010
EPA 8260		Dichlorodifluoromethane (Freon 12)	NELAP	NY	11/21/2006
EPA 8260		Ethylbenzene	NELAP	NY	11/21/2006
EPA 8260		Isopropylbenzene (Cumene)	NELAP	NY	1/20/2010
EPA 8260		Methyl tert-butyl ether (MTBE)	NELAP	NY	1/20/2010
EPA 8260		Methylene chloride (Dichloromethane)	NELAP	NY	11/21/2006
EPA 8260		Naphthalene	NELAP	NY	11/16/2012
EPA 8260		Styrene	NELAP	NY	1/20/2010
EPA 8260		Tetrachloroethene (PCE, Perchloroethylene)	NELAP	NY	11/21/2006
EPA 8260		Toluene	NELAP	NY	11/21/2006
EPA 8260		Trichloroethene (TCE, Trichloroethylene)	NELAP	NY	11/21/2006
EPA 8260		Trichlorofluoromethane (Freon 11)	NELAP	NY	11/21/2006
EPA 8260	C	VOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8260		Vinyl acetate	NELAP	NY	1/20/2010
EPA 8260		Vinyl chloride (Chloroethene)	NELAP	NY	11/21/2006
EPA 8260		Xylenes, total	NELAP	NY	11/21/2006
EPA 8260		cis-1,2-Dichloroethene	NELAP	NY	1/20/2010

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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8260		cis-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260		n-Butylbenzene	NELAP	NY	1/20/2010
EPA 8260		n-Propylbenzene	NELAP	NY	1/20/2010
EPA 8260		sec-Butylbenzene	NELAP	NY	1/20/2010
EPA 8260		tert-Butyl alcohol (2-Methyl-2-propanol)	NELAP	NY	11/16/2012
EPA 8260		tert-Butylbenzene	NELAP	NY	1/20/2010
EPA 8260		trans-1,2-Dichloroethene	NELAP	NY	1/20/2010
EPA 8260		trans-1,3-Dichloropropene	NELAP	NY	11/21/2006
EPA 8260		trans-1,4-Dichloro-2-butene	NELAP	NY	1/20/2010
EPA 8270		1,2,4,5-Tetrachlorobenzene	NELAP	NY	11/16/2012
EPA 8270		1,2,4-Trichlorobenzene	NELAP	NY	11/21/2006
EPA 8270		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270		1,2-Diphenylhydrazine	NELAP	NY	11/16/2012
EPA 8270		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	NY	11/16/2012
EPA 8270		2,3,4,6-Tetrachlorophenol	NELAP	NY	11/16/2012
EPA 8270		2,4,5-Trichlorophenol	NELAP	NY	11/4/2010
EPA 8270		2,4,6-Trichlorophenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dichlorophenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dimethylphenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dinitrophenol	NELAP	NY	11/21/2006
EPA 8270		2,4-Dinitrotoluene (2,4-DNT)	NELAP	NY	11/21/2006
EPA 8270		2,6-Dinitrotoluene (2,6-DNT)	NELAP	NY	11/21/2006
EPA 8270		2-Chloronaphthalene	NELAP	NY	11/21/2006
EPA 8270		2-Chlorophenol	NELAP	NY	11/21/2006
EPA 8270		2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	NELAP	NY	11/21/2006
EPA 8270		2-Methylnaphthalene	NELAP	NY	11/4/2010
EPA 8270		2-Methylphenol (o-Cresol)	NELAP	NY	1/20/2010
EPA 8270		2-Nitroaniline	NELAP	NY	1/20/2010
EPA 8270		2-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270		3+4-Methylphenol (m+p-Cresol)	NELAP	NY	11/16/2012
EPA 8270		3,3'-Dichlorobenzidine	NELAP	NY	1/20/2010
EPA 8270		3-Nitroaniline	NELAP	NY	1/20/2010
EPA 8270		4-Bromophenyl phenyl ether	NELAP	NY	1/20/2010
EPA 8270		4-Chloro-3-methylphenol	NELAP	NY	11/21/2006
EPA 8270		4-Chloroaniline	NELAP	NY	1/20/2010
EPA 8270		4-Chlorophenyl phenyl ether	NELAP	NY	1/20/2010
EPA 8270		4-Nitroaniline	NELAP	NY	1/20/2010
EPA 8270		4-Nitrophenol	NELAP	NY	11/21/2006
EPA 8270		Acenaphthene	NELAP	NY	11/21/2006
EPA 8270		Acenaphthylene	NELAP	NY	11/21/2006
EPA 8270		Acetophenone	NELAP	NY	11/4/2010
EPA 8270		Aniline	NELAP	NY	11/16/2012
EPA 8270		Anthracene	NELAP	NY	11/21/2006
EPA 8270		Benzidine	NELAP	NY	1/20/2010

Aaron Alger

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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		Benzo[a]anthracene	NELAP	NY	11/21/2006
EPA 8270		Benzo[a]pyrene	NELAP	NY	11/21/2006
EPA 8270		Benzo[b]fluoranthene	NELAP	NY	11/21/2006
EPA 8270		Benzo[ghi]perylene	NELAP	NY	11/21/2006
EPA 8270		Benzo[k]fluoranthene	NELAP	NY	8/11/2011
EPA 8270		Benzyl alcohol	NELAP	NY	11/16/2012
EPA 8270		Benzyl butyl phthalate (Butyl benzyl phthalate)	NELAP	NY	11/21/2006
EPA 8270		Carbazole	NELAP	NY	1/20/2010
EPA 8270		Chrysene (Benzo[a]phenanthrene)	NELAP	NY	11/21/2006
EPA 8270		Di-n-butyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Di-n-octyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Dibenzo[a,h]anthracene	NELAP	NY	11/21/2006
EPA 8270		Dibenzofuran	NELAP	NY	1/20/2010
EPA 8270		Diethyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Dimethyl phthalate	NELAP	NY	11/21/2006
EPA 8270		Fluoranthene	NELAP	NY	11/21/2006
EPA 8270		Fluorene	NELAP	NY	11/21/2006
EPA 8270		Hexachlorobenzene	NELAP	NY	11/21/2006
EPA 8270		Hexachlorobutadiene (1,3-Hexachlorobutadiene)	NELAP	NY	11/21/2006
EPA 8270		Hexachlorocyclopentadiene	NELAP	NY	11/21/2006
EPA 8270		Hexachloroethane	NELAP	NY	11/21/2006
EPA 8270		Indeno(1,2,3-cd)pyrene	NELAP	NY	11/21/2006
EPA 8270		Isophorone	NELAP	NY	11/21/2006
EPA 8270		N-Nitrosodi-n-propylamine	NELAP	NY	1/20/2010
EPA 8270		N-Nitrosodimethylamine	NELAP	NY	1/20/2010
EPA 8270		N-Nitrosodiphenylamine	NELAP	NY	1/20/2010
EPA 8270		Naphthalene	NELAP	NY	11/21/2006
EPA 8270		Nitrobenzene	NELAP	NY	11/21/2006
EPA 8270		Pentachloronitrobenzene (PCNB)	NELAP	NY	1/20/2010
EPA 8270		Pentachlorophenol (PCP)	NELAP	NY	11/21/2006
EPA 8270		Phenanthrene	NELAP	NY	11/21/2006
EPA 8270		Phenol	NELAP	NY	11/21/2006
EPA 8270		Pyrene	NELAP	NY	11/21/2006
EPA 8270		Pyridine	NELAP	NY	11/4/2010
EPA 8270	D	SOCs by GC/MS	NELAP	NY	11/14/2013
EPA 8270		bis(2-Chloroethoxy)methane	NELAP	NY	11/21/2006
EPA 8270		bis(2-Chloroethyl) ether	NELAP	NY	1/20/2010
EPA 8270		bis(2-Chloroisopropyl) ether	NELAP	NY	11/21/2006
EPA 8270		bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	NY	11/21/2006
EPA 8315	A	Carbonyl compounds by HPLC	NELAP	NY	11/14/2013
EPA 8315		Formaldehyde	NELAP	NY	11/4/2010
EPA 9010	B	Total cyanide	NELAP	NY	11/4/2010
EPA 9012		Total cyanide	NELAP	NY	11/21/2006
EPA 9030	B	Sulfide distillation	NELAP	NY	11/21/2006



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Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 008-001 expiration date November 30, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 68-03530

EPA Lab Code: CT00007

TNI Code:

(860) 645-1102

PADWIS ID: 03530

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 9045		pH	NELAP	NY	11/16/2012
EPA 9056	A	Anions by IC	NELAP	NY	1/20/2010
EPA 9056		Bromide	NELAP	NY	11/14/2013
EPA 9056		Chloride	NELAP	NY	1/20/2010
EPA 9056		Fluoride	NELAP	NY	11/14/2013
EPA 9056		Nitrate as N	NELAP	NY	1/20/2010
EPA 9056		Nitrite as N	NELAP	NY	1/20/2010
EPA 9060		Total organic carbon (TOC)	NELAP	NY	11/16/2012
EPA 9065		Total phenolics	NELAP	NY	1/20/2010
EPA 9066		Total phenolics	NELAP	NY	11/16/2012
EPA Lloyd Kahn Method		Total organic carbon (TOC)	NELAP	NY	11/14/2013



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

State of New Jersey
Department of Environmental Protection
Certifies That



Phoenix Environmental Laboratory

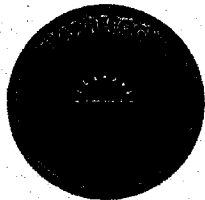
Laboratory Certification ID # CT003

is hereby approved as a


Nationally Accredited Environmental Laboratory
*to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid*

having duly met the requirements of the
Regulations Governing The Certification Of
Laboratories And Environmental Measurements N.J.A.C. 7:18 et. seq.
and
having been found compliant with the 2009 TNI Standard approved by the
The NELAC Institute

Expiration Date June 30, 2014



NJDEP is a NELAP Recognized Accreditation Body


Joseph F. Aiello, Manager
Office of Quality Assurance

This certificate is to be conspicuously displayed at the laboratory with the annual certified parameter list in a location on the premises visible to the public.
Consumers are urged to verify the laboratory's current accreditation status with the State of NJ, NELAP.

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
Effective as of 07/01/2013 until 06/30/2014



Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: CAP03 – Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	CAP03.00184	AE	GC/MS, Canisters	[EPA TO-15]	Acetone
Certified	Yes	NY	CAP03.00185	AE	GC/MS, Canisters	[EPA TO-15]	Acetonitrile
Certified	Yes	NY	CAP03.00215	AE	GC/MS, Canisters	[EPA TO-15]	Allyl chloride
Certified	Yes	NY	CAP03.00225	AE	GC/MS, Canisters	[EPA TO-15]	Benzene
Certified	Yes	NY	CAP03.00230	AE	GC/MS, Canisters	[EPA TO-15]	Benzyl chloride
Certified	Yes	NY	CAP03.00250	AE	GC/MS, Canisters	[EPA TO-15]	Bromodichloromethane
Certified	Yes	NY	CAP03.00255	AE	GC/MS, Canisters	[EPA TO-15]	Bromoform
Certified	Yes	NY	CAP03.00260	AE	GC/MS, Canisters	[EPA TO-15]	Bromomethane
Certified	Yes	NY	CAP03.00265	AE	GC/MS, Canisters	[EPA TO-15]	Butadiene (1,3-)
Certified	Yes	NY	CAP03.00270	AE	GC/MS, Canisters	[EPA TO-15]	Carbon disulfide
Certified	Yes	NY	CAP03.00275	AE	GC/MS, Canisters	[EPA TO-15]	Carbon tetrachloride
Certified	Yes	NY	CAP03.00300	AE	GC/MS, Canisters	[EPA TO-15]	Chlorobenzene
Certified	Yes	NY	CAP03.00305	AE	GC/MS, Canisters	[EPA TO-15]	Chloroethane
Certified	Yes	NY	CAP03.00310	AE	GC/MS, Canisters	[EPA TO-15]	Chloroform
Certified	Yes	NY	CAP03.00315	AE	GC/MS, Canisters	[EPA TO-15]	Chloromethane
Certified	Yes	NY	CAP03.00325	AE	GC/MS, Canisters	[EPA TO-15]	Chlorotoluene (2-)
Certified	Yes	NY	CAP03.00335	AE	GC/MS, Canisters	[EPA TO-15]	Cyclohexane
Certified	Yes	NY	CAP03.00342	AE	GC/MS, Canisters	[EPA TO-15]	Dibromochloromethane
Certified	Yes	NY	CAP03.00345	AE	GC/MS, Canisters	[EPA TO-15]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NY	CAP03.00350	AE	GC/MS, Canisters	[EPA TO-15]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NY	CAP03.00355	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorobenzene (1,2-)
Certified	Yes	NY	CAP03.00360	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorobenzene (1,3-)
Certified	Yes	NY	CAP03.00365	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorobenzene (1,4-)
Certified	Yes	NY	CAP03.00368	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorodifluoromethane
Certified	Yes	NY	CAP03.00370	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethane (1,1-)
Certified	Yes	NY	CAP03.00375	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethane (1,2-)
Certified	Yes	NY	CAP03.00380	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethene (1,1-)
Certified	Yes	NY	CAP03.00384	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethene (cis-1,2-)
Certified	Yes	NY	CAP03.00385	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethene (trans-1,2-)
Certified	Yes	NY	CAP03.00395	AE	GC/MS, Canisters	[EPA TO-15]	Dichloropropane (1,2-)
Certified	Yes	NY	CAP03.00400	AE	GC/MS, Canisters	[EPA TO-15]	Dichloropropene (cis-1,3-)

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New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
Effective as of 07/01/2013 until 06/30/2014



Laboratory Name: **PHOENIX ENVIRONMENTAL LABORATORY** Laboratory Number: **CT003** Activity ID: **NLC130001**
587 E MIDDLE TPK
MANCHESTER, CT 06040

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	CAP03.00401	AE	GC/MS, Canisters	[EPA TO-15]	Dichloropropene (trans-1,3-)
Certified	Yes	NY	CAP03.00405	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorotetrafluoroethane (1,2-)
Certified	Yes	NY	CAP03.00440	AE	GC/MS, Canisters	[EPA TO-15]	Dioxane (1,4-)
Certified	Yes	NJ	CAP03.00451	AE	GC/MS, Canisters	[EPA TO-15]	Ethanol
Certified	Yes	NY	CAP03.00465	AE	GC/MS, Canisters	[EPA TO-15]	Ethylbenzene
Certified	Yes	NJ	CAP03.00480	AE	GC/MS, Canisters	[EPA TO-15]	Ethyltoluene (4-)
Certified	Yes	NY	CAP03.00490	AE	GC/MS, Canisters	[EPA TO-15]	Hexachlorobutadiene (1,3-)
Certified	Yes	NY	CAP03.00495	AE	GC/MS, Canisters	[EPA TO-15]	Hexachloroethane
Certified	Yes	NY	CAP03.00500	AE	GC/MS, Canisters	[EPA TO-15]	Heptane (n-)
Certified	Yes	NY	CAP03.00505	AE	GC/MS, Canisters	[EPA TO-15]	Hexane (n-)
Certified	Yes	NY	CAP03.00511	AE	GC/MS, Canisters	[EPA TO-15]	Isopropanol
Certified	Yes	NY	CAP03.00515	AE	GC/MS, Canisters	[EPA TO-15]	Isopropylbenzene
Certified	Yes	NY	CAP03.00525	AE	GC/MS, Canisters	[EPA TO-15]	Methyl ethyl ketone
Certified	Yes	NY	CAP03.00535	AE	GC/MS, Canisters	[EPA TO-15]	Methyl isobutyl ketone (MIBK)
Certified	Yes	NY	CAP03.00545	AE	GC/MS, Canisters	[EPA TO-15]	Methyl methacrylate
Certified	Yes	NY	CAP03.00550	AE	GC/MS, Canisters	[EPA TO-15]	Methyl tert-butyl ether
Certified	Yes	NY	CAP03.00555	AE	GC/MS, Canisters	[EPA TO-15]	Methylene chloride (Dichloromethane)
Applied	No	NJ	CAP03.00567	AE	GC/MS, Canisters	[EPA TO-15]	Naphthalene
Certified	Yes	NY	CAP03.00625	AE	GC/MS, Canisters	[EPA TO-15]	Styrene
Certified	Yes	NY	CAP03.00635	AE	GC/MS, Canisters	[EPA TO-15]	Trichlorobenzene (1,2,4-)
Certified	Yes	NY	CAP03.00640	AE	GC/MS, Canisters	[EPA TO-15]	Trimethylbenzene (1,3,5-)
Certified	Yes	NY	CAP03.00645	AE	GC/MS, Canisters	[EPA TO-15]	Trimethylbenzene (1,2,4-)
Certified	Yes	NY	CAP03.00650	AE	GC/MS, Canisters	[EPA TO-15]	Trimethylpentane (2,2,4-)
Certified	Yes	NY	CAP03.00652	AE	GC/MS, Canisters	[EPA TO-15]	Tert-butyl alcohol
Certified	Yes	NY	CAP03.00655	AE	GC/MS, Canisters	[EPA TO-15]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NY	CAP03.00660	AE	GC/MS, Canisters	[EPA TO-15]	Tetrachloroethene
Certified	Yes	NJ	CAP03.00662	AE	GC/MS, Canisters	[EPA TO-15]	Tetrahydrofuran
Certified	Yes	NY	CAP03.00665	AE	GC/MS, Canisters	[EPA TO-15]	Toluene
Certified	Yes	NY	CAP03.00670	AE	GC/MS, Canisters	[EPA TO-15]	Trichloroethane (1,1,1-)
Certified	Yes	NY	CAP03.00675	AE	GC/MS, Canisters	[EPA TO-15]	Trichloroethane (1,1,2-)
Certified	Yes	NY	CAP03.00680	AE	GC/MS, Canisters	[EPA TO-15]	Trichloroethene
Certified	Yes	NY	CAP03.00684	AE	GC/MS, Canisters	[EPA TO-15]	Trichlorofluoromethane

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New Jersey Department of Environmental Protection
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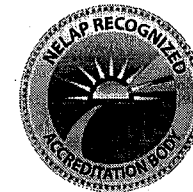
Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	CAP03.00685	AE	GC/MS, Canisters	[EPA TO-15]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NY	CAP03.00705	AE	GC/MS, Canisters	[EPA TO-15]	Vinyl bromide
Certified	Yes	NY	CAP03.00710	AE	GC/MS, Canisters	[EPA TO-15]	Vinyl chloride
Certified	Yes	NY	CAP03.00715	AE	GC/MS, Canisters	[EPA TO-15]	Xylene (m-)
Certified	Yes	NY	CAP03.00720	AE	GC/MS, Canisters	[EPA TO-15]	Xylene (o-)
Certified	Yes	NY	CAP03.00725	AE	GC/MS, Canisters	[EPA TO-15]	Xylene (p-)
Certified	Yes	NY	CAP03.00730	AE	GC/MS, Canisters	[EPA TO-15]	Xylenes (total)
Certified	Yes	NY	CAP03.05184	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1016
Certified	Yes	NY	CAP03.05186	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1221
Certified	Yes	NY	CAP03.05188	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1232
Certified	Yes	NY	CAP03.05190	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1242
Certified	Yes	NY	CAP03.05195	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1248
Certified	Yes	NY	CAP03.05200	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1254
Certified	Yes	NY	CAP03.05210	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1260
Certified	Yes	NY	CAP03.05212	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1262
Certified	Yes	NY	CAP03.05214	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1268
Certified	Yes	NY	CAP03.06430	AE	GC/MS, Canisters	[EPA TO-14A]	Benzene
Certified	Yes	NY	CAP03.06440	AE	GC/MS, Canisters	[EPA TO-14A]	Benzyl chloride
Certified	Yes	NY	CAP03.06443	AE	GC/MS, Canisters	[EPA TO-14A]	Bromodichloromethane
Certified	Yes	NY	CAP03.06450	AE	GC/MS, Canisters	[EPA TO-14A]	Bromomethane
Certified	Yes	NY	CAP03.06460	AE	GC/MS, Canisters	[EPA TO-14A]	Carbon tetrachloride
Certified	Yes	NY	CAP03.06470	AE	GC/MS, Canisters	[EPA TO-14A]	Chlorobenzene
Certified	Yes	NY	CAP03.06480	AE	GC/MS, Canisters	[EPA TO-14A]	Chloroethane
Certified	Yes	NY	CAP03.06490	AE	GC/MS, Canisters	[EPA TO-14A]	Chloroform
Certified	Yes	NY	CAP03.06500	AE	GC/MS, Canisters	[EPA TO-14A]	Chloromethane
Certified	Yes	NY	CAP03.06510	AE	GC/MS, Canisters	[EPA TO-14A]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NY	CAP03.06520	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorobenzene (1,2-)
Certified	Yes	NY	CAP03.06530	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorobenzene (1,3-)
Certified	Yes	NY	CAP03.06540	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorobenzene (1,4-)
Certified	Yes	NY	CAP03.06550	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorodifluoromethane
Certified	Yes	NY	CAP03.06560	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethane (1,1-)
Certified	Yes	NY	CAP03.06570	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethane (1,2-)

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: CAP03 – Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	CAP03.06580	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethene (1,1-)
Certified	Yes	NY	CAP03.06590	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethene (cis-1,2-)
Certified	Yes	NY	CAP03.06591	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethene (trans-1,2-)
Certified	Yes	NY	CAP03.06600	AE	GC/MS, Canisters	[EPA TO-14A]	Methylene chloride (Dichloromethane)
Certified	Yes	NY	CAP03.06610	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloropropane (1,2-)
Certified	Yes	NY	CAP03.06620	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloropropene (cis-1,3-)
Certified	Yes	NY	CAP03.06630	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloropropene (trans-1,3-)
Certified	Yes	NY	CAP03.06640	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorotetrafluoroethane (1,2-)
Certified	Yes	NY	CAP03.06650	AE	GC/MS, Canisters	[EPA TO-14A]	Ethylbenzene
Certified	Yes	NY	CAP03.06660	AE	GC/MS, Canisters	[EPA TO-14A]	Hexachlorobutadiene (1,3-)
Certified	Yes	NY	CAP03.06670	AE	GC/MS, Canisters	[EPA TO-14A]	Styrene
Certified	Yes	NY	CAP03.06680	AE	GC/MS, Canisters	[EPA TO-14A]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NY	CAP03.06690	AE	GC/MS, Canisters	[EPA TO-14A]	Tetrachloroethene
Certified	Yes	NY	CAP03.06700	AE	GC/MS, Canisters	[EPA TO-14A]	Toluene
Certified	Yes	NY	CAP03.06710	AE	GC/MS, Canisters	[EPA TO-14A]	Trichlorobenzene (1,2,4-)
Certified	Yes	NY	CAP03.06720	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloroethane (1,1,1-)
Certified	Yes	NY	CAP03.06721	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloroethane (1,1,2-)
Certified	Yes	NY	CAP03.06730	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloroethene
Certified	Yes	NY	CAP03.06740	AE	GC/MS, Canisters	[EPA TO-14A]	Trichlorofluoromethane
Certified	Yes	NY	CAP03.06750	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NY	CAP03.06760	AE	GC/MS, Canisters	[EPA TO-14A]	Trimethylbenzene (1,2,4-)
Certified	Yes	NY	CAP03.06770	AE	GC/MS, Canisters	[EPA TO-14A]	Trimethylbenzene (1,3,5-)
Certified	Yes	NY	CAP03.06780	AE	GC/MS, Canisters	[EPA TO-14A]	Vinyl chloride
Certified	Yes	NY	CAP03.06785	AE	GC/MS, Canisters	[EPA TO-14A]	Xylenes (total)
Certified	Yes	NJ	CAP03.06850	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Acetone
Certified	Yes	NJ	CAP03.06852	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Allyl chloride
Certified	Yes	NJ	CAP03.06854	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Benzene
Certified	Yes	NJ	CAP03.06856	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Bromodichloromethane
Certified	Yes	NJ	CAP03.06858	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Bromoform
Certified	Yes	NJ	CAP03.06860	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Bromomethane
Certified	Yes	NJ	CAP03.06862	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Butadiene (1,3-)
Certified	Yes	NJ	CAP03.06864	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Carbon disulfide

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY **Laboratory Number: CT003** **Activity ID: NLC130001**
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: CAP03 – Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.06866	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Carbon tetrachloride
Certified	Yes	NJ	CAP03.06868	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chlorobenzene
Certified	Yes	NJ	CAP03.06870	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chloroethane
Certified	Yes	NJ	CAP03.06872	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chloroform
Certified	Yes	NJ	CAP03.06874	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chloromethane
Certified	Yes	NJ	CAP03.06876	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chlorotoluene (2-)
Certified	Yes	NJ	CAP03.06878	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Cyclohexane
Certified	Yes	NJ	CAP03.06880	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dibromochloromethane
Certified	Yes	NJ	CAP03.06882	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	CAP03.06884	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	CAP03.06886	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	CAP03.06888	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	CAP03.06890	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorodifluoromethane
Certified	Yes	NJ	CAP03.06892	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethane (1,1-)
Certified	Yes	NJ	CAP03.06894	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethane (1,2-)
Certified	Yes	NJ	CAP03.06896	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethene (1,1-)
Certified	Yes	NJ	CAP03.06898	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethene (cis-1,2-)
Certified	Yes	NJ	CAP03.06900	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	CAP03.06902	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloropropane (1,2-)
Certified	Yes	NJ	CAP03.06904	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	CAP03.06906	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	CAP03.06908	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorotetrafluoroethane (1,2-)
Certified	Yes	NJ	CAP03.06910	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dioxane (1,4-)
Certified	Yes	NJ	CAP03.06912	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Ethanol
Certified	Yes	NJ	CAP03.06914	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Ethylbenzene
Certified	Yes	NJ	CAP03.06916	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Ethyltoluene (4-)
Certified	Yes	NJ	CAP03.06918	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Heptane (n-)
Certified	Yes	NJ	CAP03.06920	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	CAP03.06922	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Hexane (n-)
Certified	Yes	NJ	CAP03.06924	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Isopropanol
Certified	Yes	NJ	CAP03.06926	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	CAP03.06928	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl ethyl ketone

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: CAP03 – Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.06930	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl isobutyl ketone (MIBK)
Certified	Yes	NJ	CAP03.06932	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl methacrylate
Certified	Yes	NJ	CAP03.06934	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl tert-butyl ether
Certified	Yes	NJ	CAP03.06936	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Styrene
Certified	Yes	NJ	CAP03.06938	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tert-butyl alcohol
Certified	Yes	NJ	CAP03.06940	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	CAP03.06942	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tetrachloroethene
Certified	Yes	NJ	CAP03.06944	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tetrahydrofuran
Certified	Yes	NJ	CAP03.06946	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Toluene
Certified	Yes	NJ	CAP03.06948	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	CAP03.06950	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloroethane (1,1,1-)
Certified	Yes	NJ	CAP03.06952	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	CAP03.06954	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloroethene
Certified	Yes	NJ	CAP03.06956	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichlorofluoromethane
Certified	Yes	NJ	CAP03.06958	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NJ	CAP03.06960	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trimethylbenzene (1,2,4-)
Certified	Yes	NJ	CAP03.06962	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	CAP03.06964	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trimethylpentane (2,2,4-)
Certified	Yes	NJ	CAP03.06966	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Vinyl bromide
Certified	Yes	NJ	CAP03.06968	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Vinyl chloride
Certified	Yes	NJ	CAP03.06970	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Xylene (m- + p-)
Certified	Yes	NJ	CAP03.06972	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Xylene (o-)

Category: SDW01 – Microbiological Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW01.05000	DW	ONPG-MUG (Autoanalysis Colilert System) (P-A)	[SM 9223 B]	Total coliform / E. coli
Certified	Yes	NY	SDW01.05016	DW	Membrane Filter, Enumeration	[SM 9222 B/9222 G (mEndo/LES-Endo-NA+MUG)]	Total coliform / E. coli
Certified	Yes	NY	SDW01.14000	DW	Pour Plate	[SM 9215 B]	Heterotrophic bacteria

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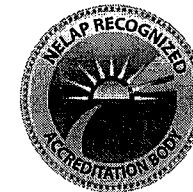
Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SDW02 – Inorganic Parameters Including Na + Ca

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW02.01000	DW	Nephelometric	[SM 2130 B]	Turbidity
Certified	Yes	NY	SDW02.02000	DW	Automated Cadmium Reduction	[EPA 353.2]	Nitrate
Certified	Yes	NY	SDW02.04000	DW	Ion Chromatography	[EPA 300.0]	Nitrate
Certified	Yes	NY	SDW02.06000	DW	Automated Cadmium Reduction	[EPA 353.2]	Nitrite
Certified	Yes	NY	SDW02.08000	DW	Ion Chromatography	[EPA 300.0]	Nitrite
Certified	Yes	NY	SDW02.09000	DW	Spectrophotometric	[SM 4500-NO2 B]	Nitrite
Certified	Yes	NY	SDW02.13000	DW	Manual Potentiometric Ion Select Electrode	[SM 4500-F C]	Fluoride
Certified	Yes	NY	SDW02.14000	DW	Ion Chromatography	[EPA 300.0]	Fluoride
Certified	Yes	NY	SDW02.15200	DW	Spectrophotometric, Distill, Semi Automated	[EPA 335.4]	Cyanide
Certified	Yes	NY	SDW02.18000	DW	Gravimetric	[SM 4500-SO4 C or D]	Sulfate
Certified	Yes	NY	SDW02.19000	DW	Ion Chromatography	[EPA 300.0]	Sulfate
Certified	Yes	NY	SDW02.20000	DW	ICP	[EPA 200.7]	Sodium
Certified	Yes	NY	SDW02.22000	DW	ICP	[EPA 200.7]	Potassium
Certified	Yes	NY	SDW02.24000	DW	Gravimetric At 180	[SM 2540 C]	Total dissolved solids (TDS)
Certified	Yes	NY	SDW02.27000	DW	ICP	[EPA 200.7]	Calcium
Certified	Yes	NY	SDW02.27200	DW	Ca as Carbonate	[EPA 200.7]	Calcium-hardness
Certified	Yes	NY	SDW02.28000	DW	Titrimetric Indicator	[SM 2320 B]	Alkalinity
Certified	Yes	NY	SDW02.29000	DW	Electrometric Titration	[SM 2320 B]	Alkalinity
Certified	Yes	NY	SDW02.31000	DW	Ion Chromatography	[EPA 300.0]	Chloride
Certified	Yes	NY	SDW02.32000	DW	Platinum-Cobalt	[SM 2120 B]	Color
Certified	Yes	NY	SDW02.33000	DW	Methylene Blue	[SM 5540 C]	Foaming agents
Certified	Yes	NY	SDW02.34000	DW	Consistent Series	[SM 2150 B]	Odor
Certified	Yes	NY	SDW02.35000	DW	Conductance	[SM 2510 B]	Conductivity
Certified	Yes	NY	SDW02.37000	DW	Colorimetric	[SM 4500-P E]	Orthophosphate
Certified	Yes	NY	SDW02.37100	DW	Colorimetric, Automated, Ascorbic Acid	[SM 4500-P F]	Orthophosphate
Certified	Yes	NY	SDW02.39500	DW	High Temp. Combustion, Filtration	[SM 5310 B]	Dissolved organic carbon (DOC)
Certified	Yes	NY	SDW02.39600	DW	High Temp. Combustion	[SM 5310 B]	Total organic carbon (TOC)
Certified	Yes	NY	SDW02.39610	DW	Persulfate-UV	[SM 5310 C]	Total organic carbon (TOC)
Certified	Yes	NY	SDW02.50000	DW	Spectrophotometric, Calculation	[SM 5910 B]	UV-absorbing compounds

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SDW03 -- Analyze-Immediately Inorganic Parameter

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NY	SDW03.03000	DW	DPD, Colorimetric	[SM 4500-Cl G]	Chlorine - residual
Applied	No	NY	SDW03.08000	DW	Electrometric	[SM 4500-H B]	pH

Category: SDW04 -- Inorganic Parameters, Metals

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW04.03000	DW	ICP	[EPA 200.7]	Aluminum
Certified	Yes	NY	SDW04.06000	DW	AA, Platform Furnace	[EPA 200.9]	Antimony
Certified	Yes	NY	SDW04.10000	DW	AA, Platform Furnace	[EPA 200.9]	Arsenic
Certified	Yes	NY	SDW04.16000	DW	ICP	[EPA 200.7]	Barium
Certified	Yes	NY	SDW04.20000	DW	ICP	[EPA 200.7]	Beryllium
Certified	Yes	NY	SDW04.21100	DW	ICP	[EPA 200.7]	Boron
Certified	Yes	NY	SDW04.24000	DW	ICP	[EPA 200.7]	Cadmium
Certified	Yes	NY	SDW04.28000	DW	ICP	[EPA 200.7]	Chromium
Certified	Yes	NY	SDW04.33000	DW	ICP	[EPA 200.7]	Copper
Certified	Yes	NY	SDW04.33200	DW	ICP - Axially Viewed	[EPA 200.5]	Copper
Certified	Yes	NY	SDW04.37000	DW	ICP	[EPA 200.7]	Iron
Certified	Yes	NY	SDW04.39000	DW	AA, Platform Furnace	[EPA 200.9]	Lead
Certified	Yes	NY	SDW04.39200	DW	ICP - Axially Viewed	[EPA 200.5]	Lead
Certified	Yes	NY	SDW04.41100	DW	ICP	[EPA 200.7]	Magnesium
Certified	Yes	NY	SDW04.44000	DW	ICP	[EPA 200.7]	Manganese
Certified	Yes	NY	SDW04.46000	DW	Manual Cold Vapor	[EPA 245.1]	Mercury
Certified	Yes	NY	SDW04.52000	DW	ICP	[EPA 200.7]	Nickel
Certified	Yes	NY	SDW04.56000	DW	AA, Platform Furnace	[EPA 200.9]	Selenium
Certified	Yes	NY	SDW04.62000	DW	ICP	[EPA 200.7]	Silver
Certified	Yes	NY	SDW04.64000	DW	AA, Platform Furnace	[EPA 200.9]	Thallium
Certified	Yes	NY	SDW04.67000	DW	ICP	[EPA 200.7]	Zinc

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY **Laboratory Number:** CT003 **Activity ID:** NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SDW05 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW05.01010	DW	HPLC	[EPA 531.2]	Carbofuran (furadan)
Certified	Yes	NY	SDW05.01020	DW	HPLC	[EPA 531.2]	Oxamyl
Certified	Yes	NY	SDW05.01040	DW	HPLC	[EPA 531.2]	Aldicarb
Certified	Yes	NY	SDW05.01050	DW	HPLC	[EPA 531.2]	Aldicarb sulfone
Certified	Yes	NY	SDW05.01060	DW	HPLC	[EPA 531.2]	Aldicarb sulfoxide
Certified	Yes	NY	SDW05.01070	DW	HPLC	[EPA 531.2]	Carbaryl
Certified	Yes	NY	SDW05.01080	DW	HPLC	[EPA 531.2]	Hydroxy carbofuran (3-)
Certified	Yes	NY	SDW05.01090	DW	HPLC	[EPA 531.2]	Methomyl (Lannate)
Certified	Yes	NY	SDW05.04010	DW	GC with Nitrogen/Phosphorous Detector	[EPA 507]	Alachlor
Certified	Yes	NY	SDW05.04020	DW	GC with Nitrogen/Phosphorous Detector	[EPA 507]	Atrazine
Certified	Yes	NY	SDW05.04030	DW	GC with Nitrogen/Phosphorous Detector	[EPA 507]	Simazine
Certified	Yes	NY	SDW05.04110	DW	GC with Nitrogen/Phosphorous Detector	[EPA 507]	Butachlor
Certified	Yes	NY	SDW05.04140	DW	GC with Nitrogen/Phosphorous Detector	[EPA 507]	Metolachlor
Certified	Yes	NY	SDW05.04150	DW	GC with Nitrogen/Phosphorous Detector	[EPA 507]	Metribuzin
Certified	Yes	NY	SDW05.06010	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1016
Certified	Yes	NY	SDW05.06020	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1221
Certified	Yes	NY	SDW05.06030	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1232
Certified	Yes	NY	SDW05.06040	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1242
Certified	Yes	NY	SDW05.06050	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1248
Certified	Yes	NY	SDW05.06060	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1254
Certified	Yes	NY	SDW05.06070	DW	GC, Extract, ECD, Screen	[EPA 508]	PCB 1260
Certified	Yes	NY	SDW05.12010	DW	Solvent Extract, GC	[EPA 504.1]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NY	SDW05.12020	DW	Solvent Extract, GC	[EPA 504.1]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NY	SDW05.14010	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	D (2,4-)
Certified	Yes	NY	SDW05.14020	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	Dalapon
Certified	Yes	NY	SDW05.14030	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	Dinoseb
Certified	Yes	NY	SDW05.14040	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	Pentachlorophenol
Certified	Yes	NY	SDW05.14050	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	Picloram
Certified	Yes	NY	SDW05.14060	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	TP (2,4,5-) (Silvex)
Certified	Yes	NY	SDW05.15030	DW	Liquid/Liquid Extraction/GC	[EPA 515.1]	Dicamba
Certified	Yes	NY	SDW05.22010	DW	Liquid/Liquid Extraction/GC	[EPA 552.2]	Bromochloroacetic acid
Certified	Yes	NY	SDW05.22050	DW	Liquid/Liquid Extraction/GC	[EPA 552.2]	Dibromoacetic acid

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SDW05 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW05.22060	DW	Liquid/Liquid Extraction/GC	[EPA 552.2]	Dichloroacetic acid
Certified	Yes	NY	SDW05.22070	DW	Liquid/Liquid Extraction/GC	[EPA 552.2]	Monobromoacetic acid (MBAA)
Certified	Yes	NY	SDW05.22080	DW	Liquid/Liquid Extraction/GC	[EPA 552.2]	Monochloroacetic acid (MCAA)
Certified	Yes	NY	SDW05.22100	DW	Liquid/Liquid Extraction/GC	[EPA 552.2]	Trichloroacetic acid
Certified	Yes	NY	SDW05.30010	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Endrin
Certified	Yes	NY	SDW05.30020	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Heptachlor
Certified	Yes	NY	SDW05.30030	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Heptachlor epoxide
Certified	Yes	NY	SDW05.30040	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Hexachlorobenzene
Certified	Yes	NY	SDW05.30050	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Hexachlorocyclopentadiene
Certified	Yes	NY	SDW05.30060	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Lindane (gamma BHC)
Certified	Yes	NY	SDW05.30070	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Methoxychlor
Certified	Yes	NY	SDW05.30080	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Chlordane (technical)
Certified	Yes	NY	SDW05.30110	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Toxaphene
Certified	Yes	NY	SDW05.30210	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Aldrin
Certified	Yes	NY	SDW05.30280	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Dieldrin
Certified	Yes	NY	SDW05.30340	DW	GC, Extraction, ECD or HECD, Capillary	[EPA 508]	Propachlor

Category: SDW06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW06.01010	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Bromoform
Certified	Yes	NY	SDW06.01020	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Chloroform
Certified	Yes	NY	SDW06.01030	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dibromochloromethane
Certified	Yes	NY	SDW06.01040	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Bromodichloromethane
Certified	Yes	NY	SDW06.02010	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Benzene
Certified	Yes	NY	SDW06.02020	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Carbon tetrachloride
Certified	Yes	NY	SDW06.02030	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Chlorobenzene
Certified	Yes	NY	SDW06.02040	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichlorobenzene (1,2-)
Certified	Yes	NY	SDW06.02050	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichlorobenzene (1,3-)
Certified	Yes	NY	SDW06.02060	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichlorobenzene (1,4-)

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587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SDW06 – Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW06.02070	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloroethane (1,1-)
Certified	Yes	NY	SDW06.02080	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloroethane (1,2-)
Certified	Yes	NY	SDW06.02090	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloroethene (cis-1,2-)
Certified	Yes	NY	SDW06.02100	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloroethene (trans-1,2-)
Certified	Yes	NY	SDW06.02110	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Methylene chloride (Dichloromethane)
Certified	Yes	NY	SDW06.02120	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloropropane (1,2-)
Certified	Yes	NY	SDW06.02130	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Ethylbenzene
Certified	Yes	NY	SDW06.02140	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Methyl tert-butyl ether
Certified	Yes	NY	SDW06.02150	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Naphthalene
Certified	Yes	NY	SDW06.02160	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Styrene
Certified	Yes	NY	SDW06.02170	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NY	SDW06.02180	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Tetrachloroethene
Certified	Yes	NY	SDW06.02190	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trichloroethane (1,1,1-)
Certified	Yes	NY	SDW06.02200	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trichloroethene
Certified	Yes	NY	SDW06.02210	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Toluene
Certified	Yes	NY	SDW06.02220	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trichlorobenzene (1,2,4-)
Certified	Yes	NY	SDW06.02230	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloroethene (1,1-)
Certified	Yes	NY	SDW06.02240	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trichloroethane (1,1,2-)
Certified	Yes	NY	SDW06.02250	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Vinyl chloride
Certified	Yes	NY	SDW06.02260	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Xylenes (total)
Certified	Yes	NY	SDW06.03010	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [USER DEFINED EPA 524.3]	Bromobenzene
Certified	Yes	NY	SDW06.03020	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Bromochloromethane
Certified	Yes	NY	SDW06.03030	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Bromomethane
Certified	Yes	NY	SDW06.03040	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Butyl benzene (n-)
Certified	Yes	NY	SDW06.03050	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Sec-butylbenzene
Certified	Yes	NY	SDW06.03060	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Tert-butylbenzene
Certified	Yes	NY	SDW06.03070	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chloroethane
Certified	Yes	NY	SDW06.03080	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Chloromethane
Certified	Yes	NY	SDW06.03090	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Chlorotoluene (2-)
Certified	Yes	NY	SDW06.03100	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Chlorotoluene (4-)
Certified	Yes	NY	SDW06.03130	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dibromomethane
Certified	Yes	NY	SDW06.03140	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichlorodifluoromethane

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587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SDW06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SDW06.03150	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloropropane (1,3-)
Certified	Yes	NY	SDW06.03160	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropane (2,2-)
Certified	Yes	NY	SDW06.03170	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloropropene (1,1-)
Certified	Yes	NY	SDW06.03180	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloropropene (cis-1,3-)
Certified	Yes	NY	SDW06.03190	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Dichloropropene (trans-1,3-)
Certified	Yes	NY	SDW06.03200	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Hexachlorobutadiene (1,3-)
Certified	Yes	NY	SDW06.03210	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Isopropylbenzene
Certified	Yes	NY	SDW06.03220	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Isopropyltoluene (4-)
Certified	Yes	NY	SDW06.03230	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Propylbenzene (n-)
Certified	Yes	NY	SDW06.03240	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Tetrachloroethane (1,1,1,2-)
Certified	Yes	NY	SDW06.03250	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichlorobenzene (1,2,3-)
Certified	Yes	NY	SDW06.03260	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trichlorofluoromethane
Certified	Yes	NY	SDW06.03270	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trichloropropane (1,2,3-)
Certified	Yes	NY	SDW06.03280	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trimethylbenzene (1,2,4-)
Certified	Yes	NY	SDW06.03300	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2] [EPA 524.3]	Trimethylbenzene (1,3,5-)
Certified	Yes	NY	SDW06.06310	DW	SPE, GC/MS	[EPA 525.2]	Benzo(a)pyrene
Certified	Yes	NY	SDW06.06320	DW	SPE, GC/MS	[EPA 525.2]	Di(2-ethylhexyl)adipate
Certified	Yes	NY	SDW06.06330	DW	SPE, GC/MS	[EPA 525.2]	Di(2-ethylhexyl)phthalate

Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW04.01000	NPW	Acid Digestion/Surface and Groundwater, ICP, FLAA	[SW-846 3005A]	Metals, Total Rec and Dissolved
Certified	Yes	NY	SHW04.01500	NPW	Acid Digestion/Aqueous Samples, ICP, FLAA	[SW-846 3010A]	Metals, Total

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587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW05 -- Organic Parameters, Prep. / Screening

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW05.01000	NPW	Separatory Funnel Extraction	[SW-846 3510C]	Semivolatile organics

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW06.21080	NPW	GC, Extract or Dir Inj, NPD or FPD, Cap	[SW-846 8141B]	Parathion methyl

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.05710	NPW	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzoic acid

Category: WPP01 -- Microbiological Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP01.02000	NPW	Membrane Filter (MF), Single Step	[SM 9222 D-97]	Fecal coliform
Certified	Yes	NY	WPP01.04000	NPW	MF Single Step or Two Step	[SM 9222 B-97]	Total coliform
Certified	Yes	NY	WPP01.09010	NPW	Membrane Filter	[EPA 1600]	Enterococci
Certified	Yes	NY	WPP01.10000	NPW	Pour Plate	[SM 9215 B]	Heterotrophic plate count
Certified	Yes	NY	WPP01.16000	NPW	Membrane Filter (mTEC)	[SM 9222 B/9222 G]	E. coli (ambient water only)

Category: WPP02 -- Inorg. Parameters, Nutrients and Demands

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP02.01000	NPW	Electrometric or Phenolphthalein	[SM 2310 B-11]	Acidity as CaCO ₃
Certified	Yes	NY	WPP02.01500	NPW	Electrometric or Color Titration	[SM 2320 B-11]	Alkalinity as CaCO ₃

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Category: WPP02 -- Inorg. Parameters, Nutrients and Demands

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP02.04000	NPW	Distillation or Gas Diffusion, Semi-automated Phenate	[EPA 350.1]	Ammonia
Certified	Yes	NY	WPP02.05000	NPW	Dissolved Oxygen Depletion - Membrane Electrode	[SM 5210 B-11]	Biochemical oxygen demand
Certified	Yes	NY	WPP02.06000	NPW	ICP	[EPA 200.7]	Boron
Certified	Yes	NY	WPP02.07100	NPW	Ion Chromatography	[EPA 300.0]	Bromide
Certified	Yes	NY	WPP02.08000	NPW	Digestion, ICP	[EPA 200.7]	Calcium
Certified	Yes	NY	WPP02.09500	NPW	Diss. Oxygen Depl., Nitrif. Inhib. - Membrane Electrode	[SM 5210 B-11]	Carbonaceous BOD (CBOD)
Certified	Yes	NY	WPP02.10500	NPW	Spectrophotometric Manual/Auto	[SM 5220 D-11]	Chemical oxygen demand
Certified	Yes	NY	WPP02.12500	NPW	Colorimetric, Automated (Ferricyanide)	[SM 4500-Cl E-11]	Chloride
Certified	Yes	NY	WPP02.12600	NPW	Ion Chromatography	[EPA 300.0]	Chloride
Certified	Yes	NY	WPP02.13500	NPW	Colorimetric (Platinum-Cobalt)	[SM 2120 B-11]	Color
Certified	Yes	NY	WPP02.15500	NPW	Distillation, Spectrophotometric (Auto)	[EPA 335.4]	Cyanide
Certified	Yes	NY	WPP02.16000	NPW	Manual Distillation, Titrimetr/Spectro	[SM 4500-CN B or C-11 and G-11]	Cyanide - amenable to Cl2
Certified	Yes	NY	WPP02.20100	NPW	Ca + Mg Carbonates, ICP	[EPA 200.7]	Hardness - total as CaCO3
Certified	Yes	NY	WPP02.22000	NPW	Auto Digestion, Auto Distillation, Auto Phenate	[EPA 351.1]	Kjeldahl nitrogen - total
Certified	Yes	NY	WPP02.24000	NPW	Digestion, ICP	[EPA 200.7]	Magnesium
Certified	Yes	NY	WPP02.26100	NPW	Ion Chromatography	[EPA 300.0]	Nitrate
Certified	Yes	NY	WPP02.27000	NPW	Cadmium Reduction, Automated	[EPA 353.2]	Nitrate - nitrite
Certified	Yes	NY	WPP02.28010	NPW	Auto, bypass Cd reduction	[EPA 353.2]	Nitrite
Certified	Yes	NY	WPP02.28600	NPW	Ion Chromatography	[EPA 300.0]	Nitrite
Certified	Yes	NY	WPP02.29100	NPW	Gravimetric, Hexane Extractable Material-LL	[EPA 1664A and B]	Oil & grease - hem-LL
Certified	Yes	NY	WPP02.30000	NPW	Combustion	[SM 5310 B-11]	Total organic carbon (TOC)
Certified	Yes	NY	WPP02.30500	NPW	Total Kjeldahl-N Minus Ammonia-N	[EPA 351.1, 2 - 350.1]	Organic nitrogen
Certified	Yes	NY	WPP02.31000	NPW	Ascorbic Acid, Automated	[SM 4500-P F or G-11]	Orthophosphate
Certified	Yes	NY	WPP02.31500	NPW	Ascorbic Acid, Manual Single Reagent	[SM 4500-P E-11]	Orthophosphate
Certified	Yes	NY	WPP02.33000	NPW	Manual Distillation, Colorimetric Auto	[EPA 420.4]	Phenols
Certified	Yes	NY	WPP02.34000	NPW	Persulfate Digestion + Manual	[SM 4500-P B5-11 + E-11]	Phosphorus (total)
Certified	Yes	NY	WPP02.35600	NPW	Digestion, ICP	[EPA 200.7]	Phosphorus (total)
Certified	Yes	NY	WPP02.36500	NPW	Digestion, ICP	[EPA 200.7]	Potassium
Certified	Yes	NY	WPP02.38000	NPW	Gravimetric, 103-105 Degrees C	[SM 2540 B-11]	Residue - total
Certified	Yes	NY	WPP02.38500	NPW	Gravimetric, 180 Degrees C	[SM 2540 C-11]	Residue - filterable (TDS)

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587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: WPP02 -- Inorg. Parameters, Nutrients and Demands

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP02.39000	NPW	Gravimetric, 103-105 Degrees C, Post Washing	[SM 2540 D-11]	Residue - nonfilterable-(TSS)
Certified	Yes	NY	WPP02.39500	NPW	Volumetric (Imhoff Cone) or Gravimetric	[SM 2540 F-11]	Residue - settleable
Certified	Yes	NY	WPP02.44000	NPW	Digestion, ICP	[EPA 200.7]	Sodium
Certified	Yes	NY	WPP02.45500	NPW	Wheatstone Bridge	[SM 2510 B-11]	Specific conductance
Certified	Yes	NY	WPP02.47000	NPW	Gravimetric	[SM 4500-SO4 C or D-11]	Sulfate
Certified	Yes	NY	WPP02.47100	NPW	Ion Chromatography	[EPA 300.0]	Sulfate
Certified	Yes	NY	WPP02.48000	NPW	Colorimetric (Methylene Blue)	[SM 4500-S B, C + D-11]	Sulfides
Certified	Yes	NY	WPP02.48500	NPW	Colorimetric (Methylene Blue)	[SM 5540 C-11]	Surfactants
Certified	Yes	NY	WPP02.50000	NPW	Nephelometric	[SM 2130 B-11]	Turbidity

Category: WPP03 -- Analyze-Immediately Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NY	WPP03.09000	NPW	Electrometric	[SM 4500-H B-11]	pH

Category: WPP04 -- Inorganic Parameters, Metals

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP04.02000	NPW	Digestion, ICP	[EPA 200.7]	Aluminum
Certified	Yes	NY	WPP04.04000	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Antimony
Certified	Yes	NY	WPP04.04500	NPW	Digestion, ICP	[EPA 200.7]	Antimony
Certified	Yes	NY	WPP04.05000	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Arsenic
Certified	Yes	NY	WPP04.05600	NPW	Digestion, ICP	[EPA 200.7]	Arsenic
Certified	Yes	NY	WPP04.08000	NPW	Digestion, ICP	[EPA 200.7]	Barium
Certified	Yes	NY	WPP04.11000	NPW	Digestion, ICP	[EPA 200.7]	Beryllium
Certified	Yes	NY	WPP04.12000	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Cadmium
Certified	Yes	NY	WPP04.13500	NPW	Digestion, ICP	[EPA 200.7]	Cadmium
Certified	Yes	NY	WPP04.15000	NPW	0.45u Filter, Colorimetric DPC	[SM 3500-Cr D (18/19th ed)]	Chromium (VI)
Certified	Yes	NY	WPP04.18000	NPW	Digestion, ICP	[EPA 200.7]	Chromium

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Category: WPP04 -- Inorganic Parameters, Metals

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP04.19500	NPW	Digestion, ICP	[EPA 200.7]	Cobalt
Certified	Yes	NY	WPP04.21500	NPW	Digestion, ICP	[EPA 200.7]	Copper
Certified	Yes	NY	WPP04.26500	NPW	Digestion, ICP	[EPA 200.7]	Iron
Certified	Yes	NY	WPP04.27500	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Lead
Certified	Yes	NY	WPP04.28000	NPW	Digestion, ICP	[EPA 200.7]	Lead
Certified	Yes	NY	WPP04.31000	NPW	Digestion, ICP	[EPA 200.7]	Manganese
Certified	Yes	NY	WPP04.33000	NPW	Manual Cold Vapor	[EPA 245.1]	Mercury
Certified	Yes	NY	WPP04.35000	NPW	Digestion, ICP	[EPA 200.7]	Molybdenum
Certified	Yes	NY	WPP04.37500	NPW	Digestion, ICP	[EPA 200.7]	Nickel
Certified	Yes	NY	WPP04.45000	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Selenium
Certified	Yes	NY	WPP04.45500	NPW	Digestion, ICP	[EPA 200.7]	Selenium
Certified	Yes	NY	WPP04.47000	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Silver
Certified	Yes	NY	WPP04.48000	NPW	Digestion, ICP	[EPA 200.7]	Silver
Certified	Yes	NY	WPP04.48300	NPW	Digestion, ICP	[EPA 200.7]	Strontium
Certified	Yes	NY	WPP04.49500	NPW	Digestion, AA Furnace	[SM 3113 B-04]	Thallium
Certified	Yes	NY	WPP04.49600	NPW	Digestion, Platform Furnace	[EPA 200.9]	Thallium
Certified	Yes	NY	WPP04.50000	NPW	Digestion, ICP	[EPA 200.7]	Thallium
Certified	Yes	NY	WPP04.51100	NPW	Digestion, ICP	[EPA 200.7]	Tin
Certified	Yes	NY	WPP04.52050	NPW	Digestion, ICP	[EPA 200.7]	Titanium
Certified	Yes	NY	WPP04.54000	NPW	Digestion, ICP	[EPA 200.7]	Vanadium
Certified	Yes	NY	WPP04.56500	NPW	Digestion, ICP	[EPA 200.7]	Zinc

Category: WPP05 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP05.09010	NPW	Extract/GC (ECD)	[EPA 608]	Aldrin
Certified	Yes	NY	WPP05.09020	NPW	Extract/GC (ECD)	[EPA 608]	Alpha BHC
Certified	Yes	NY	WPP05.09030	NPW	Extract/GC (ECD)	[EPA 608]	Beta BHC
Certified	Yes	NY	WPP05.09040	NPW	Extract/GC (ECD)	[EPA 608]	Delta BHC
Certified	Yes	NY	WPP05.09050	NPW	Extract/GC (ECD)	[EPA 608]	Lindane (gamma BHC)

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Category: WPP05 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP05.09060	NPW	Extract/GC (ECD)	[EPA 608]	Chlordane
Certified	Yes	NY	WPP05.09070	NPW	Extract/GC (ECD)	[EPA 608]	DDD (4,4'-)
Certified	Yes	NY	WPP05.09080	NPW	Extract/GC (ECD)	[EPA 608]	DDE (4,4'-)
Certified	Yes	NY	WPP05.09090	NPW	Extract/GC (ECD)	[EPA 608]	DDT (4,4'-)
Certified	Yes	NY	WPP05.09100	NPW	Extract/GC (ECD)	[EPA 608]	Dieldrin
Certified	Yes	NY	WPP05.09110	NPW	Extract/GC (ECD)	[EPA 608]	Endosulfan I
Certified	Yes	NY	WPP05.09120	NPW	Extract/GC (ECD)	[EPA 608]	Endosulfan II
Certified	Yes	NY	WPP05.09130	NPW	Extract/GC (ECD)	[EPA 608]	Endosulfan sulfate
Certified	Yes	NY	WPP05.09140	NPW	Extract/GC (ECD)	[EPA 608]	Endrin
Certified	Yes	NY	WPP05.09150	NPW	Extract/GC (ECD)	[EPA 608]	Endrin aldehyde
Certified	Yes	NY	WPP05.09170	NPW	Extract/GC (ECD)	[EPA 608]	Heptachlor
Certified	Yes	NY	WPP05.09180	NPW	Extract/GC (ECD)	[EPA 608]	Heptachlor epoxide
Certified	Yes	NY	WPP05.09190	NPW	Extract/GC (ECD)	[EPA 608]	Methoxychlor
Certified	Yes	NY	WPP05.09200	NPW	Extract/GC (ECD)	[EPA 608]	Toxaphene
Certified	Yes	NY	WPP05.11010	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1016
Certified	Yes	NY	WPP05.11020	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1221
Certified	Yes	NY	WPP05.11030	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1232
Certified	Yes	NY	WPP05.11040	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1242
Certified	Yes	NY	WPP05.11050	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1248
Certified	Yes	NY	WPP05.11060	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1254
Certified	Yes	NY	WPP05.11070	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1260

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP06.02007	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Acrolein
Certified	Yes	NY	WPP06.02009	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Acrylonitrile
Certified	Yes	NY	WPP06.02010	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Benzene
Certified	Yes	NY	WPP06.02020	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromodichloromethane
Certified	Yes	NY	WPP06.02030	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromoform

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Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP06.02040	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromomethane
Certified	Yes	NY	WPP06.02050	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Carbon tetrachloride
Certified	Yes	NY	WPP06.02060	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chlorobenzene
Certified	Yes	NY	WPP06.02070	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloroethane
Certified	Yes	NY	WPP06.02080	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloroethyl vinyl ether (2-)
Certified	Yes	NY	WPP06.02090	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloroform
Certified	Yes	NY	WPP06.02100	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloromethane
Certified	Yes	NY	WPP06.02110	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dibromochloromethane
Certified	Yes	NY	WPP06.02120	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorobenzene (1,2-)
Certified	Yes	NY	WPP06.02130	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorobenzene (1,3-)
Certified	Yes	NY	WPP06.02140	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorobenzene (1,4-)
Certified	Yes	NY	WPP06.02145	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorodifluoromethane
Certified	Yes	NY	WPP06.02150	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethane (1,1-)
Certified	Yes	NY	WPP06.02160	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethane (1,2-)
Certified	Yes	NY	WPP06.02170	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethene (1,1-)
Certified	Yes	NY	WPP06.02175	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethene (cis-1,2-)
Certified	Yes	NY	WPP06.02180	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethene (trans-1,2-)
Certified	Yes	NY	WPP06.02190	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropane (1,2-)
Certified	Yes	NY	WPP06.02200	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropene (cis-1,3-)
Certified	Yes	NY	WPP06.02210	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropene (trans-1,3-)
Certified	Yes	NY	WPP06.02220	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Ethylbenzene
Certified	Yes	NY	WPP06.02230	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Methylene chloride (Dichloromethane)
Certified	Yes	NY	WPP06.02238	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Styrene
Certified	Yes	NY	WPP06.02240	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NY	WPP06.02250	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tetrachloroethene
Certified	Yes	NY	WPP06.02260	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Toluene
Certified	Yes	NY	WPP06.02270	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloroethane (1,1,1-)
Certified	Yes	NY	WPP06.02280	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloroethane (1,1,2-)
Certified	Yes	NY	WPP06.02290	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloroethene
Certified	Yes	NY	WPP06.02300	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichlorofluoromethane
Certified	Yes	NY	WPP06.02310	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Vinyl chloride
Certified	Yes	NY	WPP06.02312	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Xylenes (total)

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New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY **Laboratory Number:** CT003 **Activity ID:** NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP06.03010	NPW	Extract, GC/MS	[EPA 625]	Acenaphthene
Certified	Yes	NY	WPP06.03020	NPW	Extract, GC/MS	[EPA 625]	Acenaphthylene
Certified	Yes	NY	WPP06.03030	NPW	Extract, GC/MS	[EPA 625]	Anthracene
Certified	Yes	NY	WPP06.03040	NPW	Extract, GC/MS	[EPA 625]	Benzo(a)anthracene
Certified	Yes	NY	WPP06.03050	NPW	Extract, GC/MS	[EPA 625]	Benzo(b)fluoranthene
Certified	Yes	NY	WPP06.03060	NPW	Extract, GC/MS	[EPA 625]	Benzo(k)fluoranthene
Certified	Yes	NY	WPP06.03070	NPW	Extract, GC/MS	[EPA 625]	Benzo(a)pyrene
Certified	Yes	NY	WPP06.03080	NPW	Extract, GC/MS	[EPA 625]	Benzo(ghi)perylene
Certified	Yes	NY	WPP06.03090	NPW	Extract, GC/MS	[EPA 625]	Butyl benzyl phthalate
Certified	Yes	NY	WPP06.03100	NPW	Extract, GC/MS	[EPA 625]	Bis (2-chloroethyl) ether
Certified	Yes	NY	WPP06.03110	NPW	Extract, GC/MS	[EPA 625]	Bis (2-chloroethoxy) methane
Certified	Yes	NY	WPP06.03120	NPW	Extract, GC/MS	[EPA 625]	Bis (2-ethylhexyl) phthalate
Certified	Yes	NY	WPP06.03130	NPW	Extract, GC/MS	[EPA 625]	Bis (2-chloroisopropyl) ether
Certified	Yes	NY	WPP06.03140	NPW	Extract, GC/MS	[EPA 625]	Bromophenyl-phenyl ether (4-)
Certified	Yes	NY	WPP06.03150	NPW	Extract, GC/MS	[EPA 625]	Chloronaphthalene (2-)
Certified	Yes	NY	WPP06.03160	NPW	Extract, GC/MS	[EPA 625]	Chlorophenyl-phenyl ether (4-)
Certified	Yes	NY	WPP06.03170	NPW	Extract, GC/MS	[EPA 625]	Chrysene
Certified	Yes	NY	WPP06.03180	NPW	Extract, GC/MS	[EPA 625]	Dibenzo(a,h)anthracene
Certified	Yes	NY	WPP06.03190	NPW	Extract, GC/MS	[EPA 625]	Di-n-butyl phthalate
Certified	Yes	NY	WPP06.03240	NPW	Extract, GC/MS	[EPA 625]	Diethyl phthalate
Certified	Yes	NY	WPP06.03250	NPW	Extract, GC/MS	[EPA 625]	Dimethyl phthalate
Certified	Yes	NY	WPP06.03260	NPW	Extract, GC/MS	[EPA 625]	Dinitrotoluene (2,4-)
Certified	Yes	NY	WPP06.03270	NPW	Extract, GC/MS	[EPA 625]	Dinitrotoluene (2,6-)
Certified	Yes	NY	WPP06.03280	NPW	Extract, GC/MS	[EPA 625]	Di-n-octyl phthalate
Certified	Yes	NY	WPP06.03290	NPW	Extract, GC/MS	[EPA 625]	Fluoranthene
Certified	Yes	NY	WPP06.03300	NPW	Extract, GC/MS	[EPA 625]	Fluorene
Certified	Yes	NY	WPP06.03310	NPW	Extract, GC/MS	[EPA 625]	Hexachlorobenzene
Certified	Yes	NY	WPP06.03320	NPW	Extract, GC/MS	[EPA 625]	Hexachlorobutadiene (1,3-)
Certified	Yes	NY	WPP06.03330	NPW	Extract, GC/MS	[EPA 625]	Hexachloroethane
Certified	Yes	NY	WPP06.03340	NPW	Extract, GC/MS	[EPA 625]	Indeno(1,2,3-cd)pyrene
Certified	Yes	NY	WPP06.03350	NPW	Extract, GC/MS	[EPA 625]	Isophorone
Certified	Yes	NY	WPP06.03360	NPW	Extract, GC/MS	[EPA 625]	Naphthalene

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	WPP06.03370	NPW	Extract, GC/MS	[EPA 625]	Nitrobenzene
Certified	Yes	NY	WPP06.03380	NPW	Extract, GC/MS	[EPA 625]	N-Nitroso-di-n-propylamine
Certified	Yes	NY	WPP06.03390	NPW	Extract, GC/MS	[EPA 625]	Phenanthrene
Certified	Yes	NY	WPP06.03400	NPW	Extract, GC/MS	[EPA 625]	Pyrene
Certified	Yes	NY	WPP06.03410	NPW	Extract, GC/MS	[EPA 625]	Trichlorobenzene (1,2,4-)
Certified	Yes	NY	WPP06.03420	NPW	Extract, GC/MS	[EPA 625]	Methyl phenol (4-chloro-3-)
Certified	Yes	NY	WPP06.03430	NPW	Extract, GC/MS	[EPA 625]	Chlorophenol (2-)
Certified	Yes	NY	WPP06.03440	NPW	Extract, GC/MS	[EPA 625]	Dichlorophenol (2,4-)
Certified	Yes	NY	WPP06.03450	NPW	Extract, GC/MS	[EPA 625]	Dimethylphenol (2,4-)
Certified	Yes	NY	WPP06.03460	NPW	Extract, GC/MS	[EPA 625]	Dinitrophenol (2,4-)
Certified	Yes	NY	WPP06.03470	NPW	Extract, GC/MS	[EPA 625]	Dinitrophenol (2-methyl-4,6-)
Certified	Yes	NY	WPP06.03480	NPW	Extract, GC/MS	[EPA 625]	Nitrophenol (2-)
Certified	Yes	NY	WPP06.03490	NPW	Extract, GC/MS	[EPA 625]	Nitrophenol (4-)
Certified	Yes	NY	WPP06.03500	NPW	Extract, GC/MS	[EPA 625]	Pentachlorophenol
Certified	Yes	NY	WPP06.03510	NPW	Extract, GC/MS	[EPA 625]	Phenol
Certified	Yes	NY	WPP06.03518	NPW	Extract, GC/MS	[EPA 625]	Trichlorophenol (2,4,5-)
Certified	Yes	NY	WPP06.03520	NPW	Extract, GC/MS	[EPA 625]	Trichlorophenol (2,4,6-)
Certified	Yes	NY	WPP06.03660	NPW	Extract, GC/MS	[EPA 625]	Hexachlorocyclopentadiene
Certified	Yes	NY	WPP06.03680	NPW	Extract, GC/MS	[EPA 625]	N-Nitrosodimethylamine
Certified	Yes	NY	WPP06.03690	NPW	Extract, GC/MS	[EPA 625]	N-Nitrosodiphenylamine
Certified	Yes	NY	WPP06.03720	NPW	Extract, GC/MS	[EPA 625]	Pyridine

Category: SHW05 -- Organic Parameters, Prep. / Screening

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW05.13000	NPW, SCM	Cleanup-Silica Gel	[SW-846 3630C]	Semivolatile organics

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Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW06.04520	NPW, SCM	Extraction, GC, FID	[OTHER NJ-OQA-QAM-025, Rev. 7]	Petroleum Organics
Certified	Yes	NJ	SHW06.04540	NPW, SCM	Extraction, GC, FID	[OTHER NJDEP EPH 10/08, Rev. 3]	Extractable Petroleum Hydrocarbons

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.05048	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Aniline
Certified	Yes	NY	SHW07.05720	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzyl alcohol

Category: SHW02 -- Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW02.01000	SCM	Pensky Martens	[SW-846 1010]	Ignitability
Certified	Yes	NY	SHW02.06900	SCM	TCLP, Toxicity Procedure, ZHE	[SW-846 1311]	Volatile organics
Certified	Yes	NY	SHW02.06950	SCM	TCLP, Toxicity Procedure, Shaker	[SW-846 1311]	Semivolatile organics
Certified	Yes	NY	SHW02.07000	SCM	TCLP, Toxicity Procedure, Shaker	[SW-846 1311]	Metals
Applied	No	NY	SHW02.07100	SCM	EP Toxicity Test	[SW-846 1310B]	Metals - organics
Certified	Yes	NY	SHW02.08000	SCM	Synthetic PPT Leachate Procedure	[SW-846 1312]	Metals - organics

Category: SHW03 -- Analyze-Immediately Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW03.01000	SCM	Aqueous, Electrometric	[SW-846 9040C]	pH

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Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NY	SHW04.02200	SCM	Acid Digestion For AA or ICP, Oil	[SW-846 3031]	Metals
Certified	Yes	NY	SHW04.03000	SCM	Acid Digestion, Soil Sediment & Sludge	[SW-846 3050B]	Metals
Certified	Yes	NY	SHW04.03700	SCM	Chromium VI Digestion	[SW-846 3060A]	Metals
Certified	Yes	NY	SHW04.05000	SCM	ICP	[SW-846 6010C]	Aluminum
Certified	Yes	NY	SHW04.06500	SCM	ICP	[SW-846 6010C]	Antimony
Certified	Yes	NY	SHW04.09000	SCM	ICP	[SW-846 6010C]	Arsenic
Certified	Yes	NY	SHW04.11500	SCM	ICP	[SW-846 6010C]	Barium
Certified	Yes	NY	SHW04.13500	SCM	ICP	[SW-846 6010C]	Beryllium
Certified	Yes	NY	SHW04.15100	SCM	ICP	[SW-846 6010C]	Boron
Certified	Yes	NY	SHW04.15500	SCM	ICP	[SW-846 6010C]	Cadmium
Certified	Yes	NY	SHW04.17500	SCM	ICP	[SW-846 6010C]	Calcium
Certified	Yes	NY	SHW04.18500	SCM	ICP	[SW-846 6010C]	Chromium
Certified	Yes	NY	SHW04.21000	SCM	Colorimetric	[SW-846 7196A]	Chromium (VI)
Certified	Yes	NY	SHW04.22500	SCM	ICP	[SW-846 6010C]	Cobalt
Certified	Yes	NY	SHW04.24500	SCM	ICP	[SW-846 6010C]	Copper
Certified	Yes	NY	SHW04.26000	SCM	ICP	[SW-846 6010C]	Iron
Certified	Yes	NY	SHW04.27500	SCM	ICP	[SW-846 6010C]	Lead
Certified	Yes	NY	SHW04.30500	SCM	ICP	[SW-846 6010C]	Magnesium
Certified	Yes	NY	SHW04.31500	SCM	ICP	[SW-846 6010C]	Manganese
Certified	Yes	NY	SHW04.33000	SCM	AA, Manual Cold Vapor	[SW-846 7470A]	Mercury - liquid waste
Certified	Yes	NY	SHW04.33500	SCM	AA, Manual Cold Vapor	[SW-846 7471A]	Mercury - solid waste
Certified	Yes	NY	SHW04.34000	SCM	ICP	[SW-846 6010C]	Molybdenum
Certified	Yes	NY	SHW04.35500	SCM	ICP	[SW-846 6010B]	Nickel
Certified	Yes	NY	SHW04.38000	SCM	ICP	[SW-846 6010B]	Potassium
Certified	Yes	NY	SHW04.39000	SCM	ICP	[SW-846 6010B]	Selenium
Certified	Yes	NY	SHW04.41000	SCM	ICP	[SW-846 6010B]	Silver
Certified	Yes	NY	SHW04.43000	SCM	ICP	[SW-846 6010B]	Sodium
Certified	Yes	NY	SHW04.44000	SCM	ICP	[SW-846 6010B]	Strontium
Certified	Yes	NY	SHW04.45000	SCM	ICP	[SW-846 6010B]	Thallium
Certified	Yes	NY	SHW04.47100	SCM	ICP	[SW-846 6010B]	Tin
Certified	Yes	NY	SHW04.47145	SCM	ICP	[SW-846 6010B]	Titanium
Certified	Yes	NY	SHW04.47500	SCM	ICP	[SW-846 6010B]	Vanadium

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587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW04.49000	SCM	ICP	[SW-846 6010B]	Zinc

Category: SHW05 -- Organic Parameters, Prep. / Screening

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW05.03000	SCM	Soxhlet Extraction	[SW-846 3540C]	Semivolatile organics
Certified	Yes	NY	SHW05.04200	SCM	Pressurized Fluid Extraction	[SW-846 3545] [SW-846 3545A]	Semivolatile organics
Certified	Yes	NY	SHW05.05000	SCM	Ultrasonic Extraction	[SW-846 3550B] [SW-846 3550C]	Semivolatile organics
Certified	Yes	NY	SHW05.06000	SCM	Waste Dilution	[SW-846 3580A]	Organics
Applied	No	NY	SHW05.06100	SCM	Waste Dilution, Volatile organics	[SW-846 3585]	Organics
Certified	Yes	NY	SHW05.06200	SCM	Equilibrium Headspace	[SW-846 5021]	Volatile organics
Certified	Yes	NY	SHW05.07300	SCM	Closed System Purge & Trap	[SW-846 5035L]	Volatile organics - low conc.
Certified	Yes	NY	SHW05.07310	SCM	Methanol Extract, Closed System P & T	[SW-846 5035H]	Volatile organics - high conc.

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW06.03090	SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Iso-butyl alcohol
Certified	Yes	NY	SHW06.03170	SCM	GC, Direct Injection, FID	[SW-846 8015B]	Ethylene glycol
Certified	Yes	NY	SHW06.04010	SCM	GC P&T, FID	[SW-846 8015B]	Gasoline range organic
Certified	Yes	NY	SHW06.04500	SCM	Extraction, GC, FID	[SW-846 8015B]	Diesel range organic
Certified	Yes	NY	SHW06.12010	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Aldrin
Certified	Yes	NY	SHW06.12020	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Alpha BHC
Certified	Yes	NY	SHW06.12030	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Beta BHC
Certified	Yes	NY	SHW06.12040	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Delta BHC
Certified	Yes	NY	SHW06.12050	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Lindane (gamma BHC)
Certified	Yes	NY	SHW06.12060	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Chlordane (technical)
Certified	Yes	NY	SHW06.12070	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Chlordane (alpha)
Certified	Yes	NY	SHW06.12080	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Chlordane (gamma)

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Category: SHW06 -- Organic Parameters, Chromatography

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Certified	Yes	NY	SHW06.12090	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	DDD (4,4'-)
Certified	Yes	NY	SHW06.12100	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	DDE (4,4'-)
Certified	Yes	NY	SHW06.12110	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	DDT (4,4'-)
Certified	Yes	NY	SHW06.12120	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Dieldrin
Certified	Yes	NY	SHW06.12130	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Endosulfan I
Certified	Yes	NY	SHW06.12140	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Endosulfan II
Certified	Yes	NY	SHW06.12150	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Endosulfan sulfate
Certified	Yes	NY	SHW06.12160	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Endrin
Certified	Yes	NY	SHW06.12170	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Endrin aldehyde
Certified	Yes	NY	SHW06.12180	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Endrin ketone
Certified	Yes	NY	SHW06.12190	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Heptachlor
Certified	Yes	NY	SHW06.12200	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Heptachlor epoxide
Certified	Yes	NY	SHW06.12210	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Methoxychlor
Certified	Yes	NY	SHW06.12220	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081B]	Toxaphene
Certified	Yes	NY	SHW06.13110	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1016
Certified	Yes	NY	SHW06.13120	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1221
Certified	Yes	NY	SHW06.13130	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1232
Certified	Yes	NY	SHW06.13140	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1242
Certified	Yes	NY	SHW06.13150	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1248
Certified	Yes	NY	SHW06.13160	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1254
Certified	Yes	NY	SHW06.13170	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB 1260
Certified	Yes	NY	SHW06.13175	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB-1262
Certified	Yes	NY	SHW06.13180	SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082A]	PCB-1268
Certified	Yes	NY	SHW06.21010	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Azinphos methyl
Applied	No	NY	SHW06.21020	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Demeton (o-)
Applied	No	NY	SHW06.21030	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Demeton (s-)
Certified	Yes	NY	SHW06.21040	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Diazinon
Certified	Yes	NY	SHW06.21050	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Disulfoton
Certified	Yes	NY	SHW06.21060	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Malathion
Applied	No	NY	SHW06.21070	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[SW-846 8141B]	Parathion
Certified	Yes	NY	SHW06.21087	SCM	GC, Extract or Dir Inj, NPD or FPD,Cap	[USER DEFINED SW-846 8141B]	Simazine
Certified	Yes	NY	SHW06.23010	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dalapon

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587 E MIDDLE TPKE
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Category: SHW06 – Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW06.23020	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dicamba
Certified	Yes	NY	SHW06.23021	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dichlorprop
Certified	Yes	NY	SHW06.23030	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dinoseb
Certified	Yes	NY	SHW06.23040	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	D (2,4-)
Certified	Yes	NY	SHW06.23041	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	DB (2,4-)
Certified	Yes	NY	SHW06.23050	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	T (2,4,5-)
Certified	Yes	NY	SHW06.23060	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	TP (2,4,5-) (Silvex)
Certified	Yes	NY	SHW06.23063	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	MCPA
Certified	Yes	NY	SHW06.23064	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	MCPP
Certified	Yes	NY	SHW06.23066	SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Pentachlorophenol
Certified	Yes	NY	SHW06.25030	SCM	HPLC, Extraction, Derivatization	[SW-846 8315A]	Formaldehyde

Category: SHW07 – Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.04010	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Benzene
Certified	Yes	NY	SHW07.04011	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromobenzene
Certified	Yes	NY	SHW07.04012	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Butyl benzene (n-)
Certified	Yes	NY	SHW07.04013	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Sec-butylbenzene
Certified	Yes	NY	SHW07.04014	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tert-butylbenzene
Certified	Yes	NY	SHW07.04016	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Benzyl chloride
Certified	Yes	NY	SHW07.04020	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chlorobenzene
Certified	Yes	NY	SHW07.04022	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chlorotoluene (2-)
Certified	Yes	NY	SHW07.04023	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chlorotoluene (4-)
Certified	Yes	NY	SHW07.04030	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorobenzene (1,2-)
Certified	Yes	NY	SHW07.04040	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorobenzene (1,3-)
Certified	Yes	NY	SHW07.04050	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorobenzene (1,4-)
Certified	Yes	NY	SHW07.04060	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Ethylbenzene
Certified	Yes	NY	SHW07.04065	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Isopropylbenzene
Certified	Yes	NY	SHW07.04067	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Propylbenzene (n-)

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY **Laboratory Number:** CT003 **Activity ID:** NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.04070	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Toluene
Certified	Yes	NY	SHW07.04071	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Isopropyltoluene (4-)
Certified	Yes	NY	SHW07.04072	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichlorobenzene (1,2,3-)
Certified	Yes	NY	SHW07.04073	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trimethylbenzene (1,2,4-)
Certified	Yes	NY	SHW07.04074	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trimethylbenzene (1,3,5-)
Certified	Yes	NY	SHW07.04080	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Xylenes (total)
Certified	Yes	NY	SHW07.04089	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromochloromethane
Certified	Yes	NY	SHW07.04090	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromodichloromethane
Certified	Yes	NY	SHW07.04100	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromoform
Certified	Yes	NY	SHW07.04110	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromomethane
Certified	Yes	NY	SHW07.04111	SCM	GC/MS, P&T, or Direct Injection, Capillary	[SW-846 8260B]	Cyclohexane
Certified	Yes	NY	SHW07.04120	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Carbon tetrachloride
Certified	Yes	NY	SHW07.04130	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloroethane
Certified	Yes	NY	SHW07.04140	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloroethyl vinyl ether (2-)
Certified	Yes	NY	SHW07.04150	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloroform
Certified	Yes	NY	SHW07.04160	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloromethane
Certified	Yes	NY	SHW07.04170	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropene (trans-1,3-)
Certified	Yes	NY	SHW07.04180	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromochloromethane
Certified	Yes	NY	SHW07.04185	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NY	SHW07.04186	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromomethane
Certified	Yes	NY	SHW07.04187	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NY	SHW07.04190	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorodifluoromethane
Certified	Yes	NY	SHW07.04200	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethane (1,1-)
Certified	Yes	NY	SHW07.04210	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethane (1,2-)
Certified	Yes	NY	SHW07.04220	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethene (1,1-)
Certified	Yes	NY	SHW07.04230	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethene (trans-1,2-)
Certified	Yes	NY	SHW07.04235	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethene (cis-1,2-)
Certified	Yes	NY	SHW07.04240	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropane (1,2-)
Certified	Yes	NY	SHW07.04241	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropane (1,3-)
Certified	Yes	NY	SHW07.04242	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropane (2,2-)
Certified	Yes	NY	SHW07.04249	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropene (1,1-)
Certified	Yes	NY	SHW07.04250	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropene (cis-1,3-)

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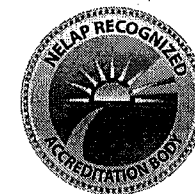
Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY **Laboratory Number:** CT003 **Activity ID:** NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW07 – Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.04255	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloro-2-butene (trans-1,4-)
Certified	Yes	NY	SHW07.04260	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Methylene chloride (Dichloromethane)
Certified	Yes	NY	SHW07.04270	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NY	SHW07.04280	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tetrachloroethene
Certified	Yes	NY	SHW07.04290	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloroethane (1,1,1-)
Certified	Yes	NY	SHW07.04300	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloroethane (1,1,2-)
Certified	Yes	NY	SHW07.04310	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloroethene
Certified	Yes	NY	SHW07.04320	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichlorofluoromethane
Certified	Yes	NY	SHW07.04322	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NY	SHW07.04325	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloropropane (1,2,3-)
Certified	Yes	NY	SHW07.04327	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Vinyl acetate
Certified	Yes	NY	SHW07.04330	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Vinyl chloride
Certified	Yes	NY	SHW07.04340	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Acetone
Certified	Yes	NY	SHW07.04350	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Carbon disulfide
Certified	Yes	NY	SHW07.04360	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Butanone (2-)
Certified	Yes	NY	SHW07.04370	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Hexanone (2-)
Certified	Yes	NY	SHW07.04374	SCM	GC/MS, P&T, or Direct Injection, Capillary	[SW-846 8260B]	Methyl acetate
Certified	Yes	NY	SHW07.04380	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Pentanone (4-methyl-2-) (MIBK)
Certified	Yes	NY	SHW07.04390	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Methyl tert-butyl ether
Certified	Yes	NY	SHW07.04395	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tert-butyl alcohol
Certified	Yes	NY	SHW07.04400	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Acrolein
Certified	Yes	NY	SHW07.04410	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Acrylonitrile
Certified	Yes	NY	SHW07.04500	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Hexachlorobutadiene (1,3-)
Certified	Yes	NY	SHW07.04535	SCM	GC/MS, P&T, or Direct Injection, Capillary	[SW-846 8260B]	Methylcyclohexane
Certified	Yes	NY	SHW07.04540	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Naphthalene
Certified	Yes	NY	SHW07.04550	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Styrene
Certified	Yes	NY	SHW07.04560	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tetrachloroethane (1,1,1,2-)
Certified	Yes	NY	SHW07.04570	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichlorobenzene (1,2,4-)
Certified	Yes	NY	SHW07.04590	SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dioxane (1,4-)
Certified	Yes	NY	SHW07.04665	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Acetophenone
Certified	Yes	NY	SHW07.04702	SCM	GC/MS, Extract, or Direct Injection, Capillary	[SW-846 8270D]	Biphenyl (1,1'-)
Certified	Yes	NY	SHW07.04905	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Pentachloronitrobenzene

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.04975	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Tetrachlorobenzene (1,2,4,5-)
Certified	Yes	NY	SHW07.04980	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Tetrachlorophenol (2,3,4,6-)
Certified	Yes	NY	SHW07.05005	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	N-Nitrosodimethylamine
Certified	Yes	NY	SHW07.05006	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	N-Nitroso-di-n-propylamine
Certified	Yes	NY	SHW07.05010	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	N-Nitrosodiphenylamine
Certified	Yes	NY	SHW07.05030	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Carbazole
Certified	Yes	NY	SHW07.05038	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzidine
Certified	Yes	NY	SHW07.05040	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dichlorobenzidine (3,3'-)
Certified	Yes	NY	SHW07.05045	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Diphenylhydrazine (1,2-)
Certified	Yes	NY	SHW07.05050	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Chloroaniline (4-)
Certified	Yes	NY	SHW07.05060	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Nitroaniline (2-)
Certified	Yes	NY	SHW07.05062	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Nitroaniline (3-)
Certified	Yes	NY	SHW07.05063	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Nitroaniline (4-)
Certified	Yes	NY	SHW07.05070	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Chloronaphthalene (2-)
Certified	Yes	NY	SHW07.05080	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Hexachlorobenzene
Certified	Yes	NY	SHW07.05090	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Hexachlorobutadiene (1,3-)
Certified	Yes	NY	SHW07.05100	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Hexachlorocyclopentadiene
Certified	Yes	NY	SHW07.05110	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Hexachloroethane
Certified	Yes	NY	SHW07.05120	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Trichlorobenzene (1,2,4-)
Certified	Yes	NY	SHW07.05130	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Bis (2-chloroethoxy) methane
Certified	Yes	NY	SHW07.05132	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Bis (2-chloroethyl) ether
Certified	Yes	NY	SHW07.05140	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Bis (2-chloroisopropyl) ether
Certified	Yes	NY	SHW07.05150	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Chlorophenyl-phenyl ether (4-)
Certified	Yes	NY	SHW07.05160	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Bromophenyl-phenyl ether (4-)
Certified	Yes	NY	SHW07.05170	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dinitrotoluene (2,4-)
Certified	Yes	NY	SHW07.05180	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dinitrotoluene (2,6-)
Certified	Yes	NY	SHW07.05190	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Isophorone
Certified	Yes	NY	SHW07.05200	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Nitrobenzene
Certified	Yes	NY	SHW07.05210	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Butyl benzyl phthalate
Certified	Yes	NY	SHW07.05220	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Bis (2-ethylhexyl) phthalate
Certified	Yes	NY	SHW07.05230	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Diethyl phthalate
Certified	Yes	NY	SHW07.05240	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dimethyl phthalate

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Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY **Laboratory Number:** CT003 **Activity ID:** NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW07 – Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.05250	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Di-n-butyl phthalate
Certified	Yes	NY	SHW07.05260	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Di-n-octyl phthalate
Certified	Yes	NY	SHW07.05270	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Acenaphthene
Certified	Yes	NY	SHW07.05280	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Anthracene
Certified	Yes	NY	SHW07.05290	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Acenaphthylene
Certified	Yes	NY	SHW07.05300	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(a)anthracene
Certified	Yes	NY	SHW07.05310	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(a)pyrene
Certified	Yes	NY	SHW07.05320	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(b)fluoranthene
Certified	Yes	NY	SHW07.05330	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(ghi)perylene
Certified	Yes	NY	SHW07.05340	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(k)fluoranthene
Certified	Yes	NY	SHW07.05350	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Chrysene
Certified	Yes	NY	SHW07.05360	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dibenzo(a,h)anthracene
Certified	Yes	NY	SHW07.05370	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Fluoranthene
Certified	Yes	NY	SHW07.05380	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Fluorene
Certified	Yes	NY	SHW07.05390	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Indeno(1,2,3-cd)pyrene
Certified	Yes	NY	SHW07.05400	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Methylnaphthalene (2-)
Certified	Yes	NY	SHW07.05410	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Naphthalene
Certified	Yes	NY	SHW07.05420	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Phenanthrene
Certified	Yes	NY	SHW07.05430	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Pyrene
Certified	Yes	NY	SHW07.05440	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Methyl phenol (4-chloro-3-)
Certified	Yes	NY	SHW07.05450	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Chlorophenol (2-)
Certified	Yes	NY	SHW07.05460	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dichlorophenol (2,4-)
Certified	Yes	NY	SHW07.05470	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dimethylphenol (2,4-)
Certified	Yes	NY	SHW07.05480	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dinitrophenol (2,4-)
Certified	Yes	NY	SHW07.05490	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dinitrophenol (2-methyl-4,6-)
Certified	Yes	NY	SHW07.05500	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Methylphenol (2-)
Certified	Yes	NY	SHW07.05510	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Methylphenol (4-)
Certified	Yes	NY	SHW07.05520	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Nitrophenol (2-)
Certified	Yes	NY	SHW07.05530	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Nitrophenol (4-)
Certified	Yes	NY	SHW07.05540	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Pentachlorophenol
Certified	Yes	NY	SHW07.05550	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Phenol
Certified	Yes	NY	SHW07.05560	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Trichlorophenol (2,4,5-)

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
Effective as of 07/01/2013 until 06/30/2014



Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW07.05570	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Trichlorophenol (2,4,6-)
Certified	Yes	NY	SHW07.05590	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Methylphenol (3-)
Certified	Yes	NY	SHW07.05600	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dibenzofuran
Certified	Yes	NY	SHW07.05691	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dichlorobenzene (1,2-)
Certified	Yes	NY	SHW07.05692	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dichlorobenzene (1,3-)
Certified	Yes	NY	SHW07.05700	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dichlorobenzene (1,4-)
Certified	Yes	NY	SHW07.05705	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzaldehyde
Certified	Yes	NY	SHW07.05750	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Pyridine
Certified	Yes	NY	SHW07.05765	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Caprolactam
Certified	Yes	NY	SHW07.05990	SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270D]	Atrazine
Certified	Yes	NY	SHW07.07578	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Acenaphthene
Certified	Yes	NY	SHW07.07580	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Acenaphthylene
Certified	Yes	NY	SHW07.07582	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Anthracene
Certified	Yes	NY	SHW07.07584	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(a)anthracene
Certified	Yes	NY	SHW07.07586	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(a)pyrene
Certified	Yes	NY	SHW07.07588	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(b)fluoranthene
Certified	Yes	NY	SHW07.07590	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(k)fluoranthene
Certified	Yes	NY	SHW07.07592	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Benzo(ghi)perylene
Certified	Yes	NY	SHW07.07593	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Chrysene
Certified	Yes	NY	SHW07.07594	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Dibenzo(a,h)anthracene
Certified	Yes	NY	SHW07.07598	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Indeno(1,2,3-cd)pyrene
Certified	Yes	NY	SHW07.07604	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Naphthalene
Certified	Yes	NY	SHW07.07610	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Fluoranthene
Certified	Yes	NY	SHW07.07612	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Fluorene
Certified	Yes	NY	SHW07.07618	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Phenanthrene
Certified	Yes	NY	SHW07.07620	SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270D]	Pyrene

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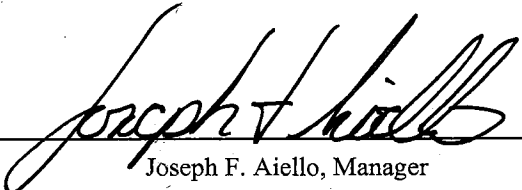
New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
Effective as of 07/01/2013 until 06/30/2014



Laboratory Name: PHOENIX ENVIRONMENTAL LABORATORY Laboratory Number: CT003 Activity ID: NLC130001
587 E MIDDLE TPKE
MANCHESTER, CT 06040

Category: SHW09 – Miscellaneous Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NY	SHW09.02000	SCM	Distillation	[SW-846 9010C]	Cyanide
Certified	Yes	NY	SHW09.03000	SCM	Distillation	[SW-846 9010C]	Cyanide - amenable to Cl ₂
Certified	Yes	NY	SHW09.05000	SCM	Colorimetric, Automated	[USER DEFINED SW-846 9012A]	Cyanide
Certified	Yes	NY	SHW09.09000	SCM	Redox Titration	[SW-846 9030B]	Sulfides, acid sol. & insol.
Certified	Yes	NY	SHW09.13050	SCM	Ion Chromatography	[SW-846 9056A]	Sulfate
Applied	No	NY	SHW09.14000	SCM	Electrometric	[SW-846 9040C]	pH - waste, >20% water
Certified	Yes	NY	SHW09.16000	SCM	Mix with Water or Calcium Chloride	[SW-846 9045C]	pH - soil and waste
Certified	Yes	NY	SHW09.17000	SCM	Wheatstone Bridge	[SW-846 9050A]	Specific conductance
Certified	Yes	NY	SHW09.19000	SCM	Infrared Spectrometry or FID	[SW-846 9060A]	Total organic carbon (TOC)
Certified	Yes	NY	SHW09.19100	SCM	Pyrolytic	[OTHER Lloyd Kahn]	Total organic carbon (TOC)
Certified	Yes	NY	SHW09.21000	SCM	Colorimetric, Man, 4AAP Distillation	[SW-846 9065]	Phenols
Certified	Yes	NY	SHW09.22000	SCM	Colorimetric, Auto, 4AAP Distillation	[SW-846 9066]	Phenols
Certified	Yes	NY	SHW09.29000	SCM	Flow-Through Paint Filter, Observation	[SW-846 9095]	Free liquid
Certified	Yes	NY	SHW09.29150	SCM	Ion Chromatography	[SW-846 9056]	Nitrite
Certified	Yes	NY	SHW09.30150	SCM	Ion Chromatography	[SW-846 9056]	Nitrate
Certified	Yes	NY	SHW09.30250	SCM	Ion Chromatography	[SW-846 9056A]	Bromide
Certified	Yes	NY	SHW09.33100	SCM	Ion Chromatography	[SW-846 9056]	Chloride
Certified	Yes	NY	SHW09.34150	SCM	Ion Chromatography	[SW-846 9056A]	Fluoride


Joseph F. Aiello, Manager

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014
Issued April 01, 2013

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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

D. W. Methylcarbamate Pesticides

3-Hydroxy Carbofuran	EPA 531.2
Aldicarb	EPA 531.2
Aldicarb Sulfone	EPA 531.2
Aldicarb Sulfoxide	EPA 531.2
Carbaryl	EPA 531.2
Carbofuran	EPA 531.2
Methomyl	EPA 531.2
Oxamyl	EPA 531.2

Disinfection By-products

Bromochloroacetic acid	EPA 552.2
Dibromoacetic acid	EPA 552.2
Dichloroacetic acid	EPA 552.2
Monobromoacetic acid	EPA 552.2
Monochloroacetic acid	EPA 552.2
Trichloroacetic acid	EPA 552.2

Drinking Water Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 18-21 9222B(97)/40CFR141.21(F)6i SM 18-21 9223B (97) (Colilert)
E. coli (Enumeration)	SM 18-21 9222B(97)/40CFR141.21(F)6i SM 18-21 9223B (97) (Colilert)
Enterococci	EPA 1600
Standard Plate Count	SM 18-21 9215B

Drinking Water Chlorinated Acids

2,4,5-TP (Silvex)	EPA 515.1
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Drinking Water Chlorinated Acids

2,4-D	EPA 515.1
Dalapon	EPA 515.1
Dicamba	EPA 515.1
Dinoseb	EPA 515.1
Pentachlorophenol	EPA 515.1
Picloram	EPA 515.1

Drinking Water Metals I

Arsenic, Total	EPA 200.9 Rev. 2.2
Barium, Total	EPA 200.7 Rev. 4.4
Cadmium, Total	EPA 200.7 Rev. 4.4
Chromium, Total	EPA 200.7 Rev. 4.4
Copper, Total	EPA 200.5
	EPA 200.7 Rev. 4.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.5
	EPA 200.9 Rev. 2.2
Manganese, Total	EPA 200.7 Rev. 4.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.9 Rev. 2.2
Silver, Total	EPA 200.7 Rev. 4.4
Zinc, Total	EPA 200.7 Rev. 4.4

Drinking Water Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
Antimony, Total	EPA 200.9 Rev. 2.2
Beryllium, Total	EPA 200.7 Rev. 4.4

Serial No.: 48587

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Drinking Water Metals II

Molybdenum, Total	EPA 200.7 Rev. 4.4
Nickel, Total	EPA 200.7 Rev. 4.4
Thallium, Total	EPA 200.9 Rev. 2.2
Vanadium, Total	EPA 200.7 Rev. 4.4

Drinking Water Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Drinking Water Miscellaneous

Benzo(a)pyrene	EPA 525.2
Bis(2-ethylhexyl) phthalate	EPA 525.2
DI (2-ethylhexyl) adipate	EPA 525.2
Hexachlorobenzene	EPA 508
Hexachlorocyclopentadiene	EPA 508
Odor	SM 18-20 2150B (97)
Organic Carbon, Dissolved	SM 18-21 5310B (00)
Organic Carbon, Total	SM 18-21 5310B (00)
	SM 18-21 5310C (00)
Surfactant (MBAS)	SM 18-21 5540C (00)
Turbidity	SM 18-21 2130 B (01)
UV 254	SM 19-21 5910B

Drinking Water Non-Metals

Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
	SM 18-21 4500-Cl- E (97)
Color	SM 18-21 2120B (01)
Cyanide	EPA 335.4 Rev. 1.0
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 18-21 4500-F C (97)
Nitrate (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 300.0 Rev. 2.1
	EPA 353.2 Rev. 2.0
Orthophosphate (as P)	SM 18-21 4500-P E
	SM 18-21 4500-P F
Solids, Total Dissolved	SM 18-21 2540C (97)
Specific Conductance	SM 18-21 2510B (97)
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1
	SM 18-21 4500-SO ₄ D (97)

Drinking Water Organohalide Pesticides

Alachlor	EPA 507
Aldrin	EPA 508
Atrazine	EPA 507
Butachlor	EPA 507
Chlordane Total	EPA 508
Dieldrin	EPA 508

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MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Drinking Water Organohalide Pesticides

Endrin	EPA 508
Heptachlor	EPA 508
Heptachlor epoxide	EPA 508
Lindane	EPA 508
Methoxychlor	EPA 508
Metolachlor	EPA 507
Metribuzin	EPA 507
Propachlor	EPA 508
Simazine	EPA 507
Toxaphene	EPA 508

Drinking Water Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Microextractibles

1,2-Dibromo-3-chloropropane	EPA 504.1
1,2-Dibromoethane	EPA 504.1

Polychlorinated Biphenyls

PCB Screen	EPA 508
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Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2

Volatile Halocarbons

Vinyl chloride	EPA 524.2
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587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 624
	EPA 8260C
Acrylonitrile	EPA 624
	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 625
	EPA 8270D
Carbazole	EPA 625
	EPA 8270D
Pyridine	EPA 625
	EPA 8270D

Bacteriology

Coliform, Fecal	SM 18-21 9222D (97)
Coliform, Total	SM 18-21 9222B (97)
E. coli (Enumeration)	Colilert
	SM 18-21 9223B (97) (Colilert)
	SM 19-20 9222G
Enterococci	EPA 1600
Standard Plate Count	SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine	EPA 625
	EPA 8270D
Benzidine	EPA 625
	EPA 8270D

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 608
	EPA 8081B
4,4'-DDE	EPA 608
	EPA 8081B
4,4'-DDT	EPA 608
	EPA 8081B
Aldrin	EPA 608
	EPA 8081B
alpha-BHC	EPA 608
	EPA 8081B
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 608
	EPA 8081B
Chlordane Total	EPA 608
	EPA 8081B
delta-BHC	EPA 608
	EPA 8081B
Dieldrin	EPA 608
	EPA 8081B
Endosulfan I	EPA 608

Serial No.: 49906

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587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Endosulfan I	EPA 8081B
Endosulfan II	EPA 608
	EPA 8081B
Endosulfan sulfate	EPA 608
	EPA 8081B
Endrin	EPA 608
	EPA 8081B
Endrin aldehyde	EPA 608
	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 608
	EPA 8081B
Heptachlor epoxide	EPA 608
	EPA 8081B
Lindane	EPA 608
	EPA 8081B
Methoxychlor	EPA 608
	EPA 8081B
PCNB	EPA 8270D
Toxaphene	EPA 608
	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA 625
	EPA 8270D
2-Chloronaphthalene	EPA 625
	EPA 8270D
Hexachlorobenzene	EPA 625
	EPA 8270D
Hexachlorobutadiene	EPA 625
	EPA 8270D
Hexachlorocyclopentadiene	EPA 625
	EPA 8270D
Hexachloroethane	EPA 625
	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 18-21 5210B (01)
Carbonaceous BOD	SM 18-21 5210B (01)
Chemical Oxygen Demand	SM 18-21 5220D (97)

Serial No.: 49906

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Issued April 01, 2013
Revised December 27, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

**MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040**

NY Lab Id No: 11301

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Fuel Oxygenates

Di-isopropyl ether	EPA 8260C
Ethanol	EPA 8015C
	EPA 8015D
	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-amyl alcohol	EPA 8260C
tert-amyl methyl ether (TAME)	EPA 8260C
tert-butyl alcohol	EPA 8260C
tert-butyl ethyl ether (ETBE)	EPA 8260C

Haloethers

4-Bromophenylphenyl ether	EPA 625
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270D
Bis(2-chloroisopropyl) ether	EPA 625
	EPA 8270D

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 8270D SIM
Acenaphthylene Low Level	EPA 8270D SIM
Anthracene Low Level	EPA 8270D SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM

Low Level Polynuclear Aromatics

Benzo(a)pyrene Low Level	EPA 8270D SIM
Benzo(b)fluoranthene Low Level	EPA 8270D SIM
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
Chrysene Low Level	EPA 8270D SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
Fluoranthene Low Level	EPA 8270D SIM
Fluorene Low Level	EPA 8270D SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
Naphthalene Low Level	EPA 8270D SIM
Phenanthrene Low Level	EPA 8270D SIM
Pyrene Low Level	EPA 8270D SIM

Mineral

Acidity	SM 18-21 2310B.4a (97)
Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
	SM 18-21 4500-Cl- E (97)
Hardness, Total	EPA 200.7 Rev. 4.4
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1
	SM 18-21 4500-SO ₄ D (97)

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 625
	EPA 8270D
2,6-Dinitrotoluene	EPA 625

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WADSWORTH CENTER



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Nitroaromatics and Isophorone

2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 625 EPA 8270D
Nitrobenzene	EPA 625 EPA 8270D

Nitrosoamines

N-Nitrosodimethylamine	EPA 625 EPA 8270D
N-Nitrosodi-n-propylamine	EPA 625 EPA 8270D
N-Nitrosodiphenylamine	EPA 625 EPA 8270D

Nutrient

Ammonia (as N)	EPA 350.1 Rev. 2.0
Kjeldahl Nitrogen, Total	EPA 351.1 Rev. 1978
Nitrate (as N)	EPA 300.0 Rev. 2.1 EPA 353.2 Rev. 2.0
Nitrite (as N)	EPA 300.0 Rev. 2.1 EPA 353.2 Rev. 2.0
Orthophosphate (as P)	SM 18-21 4500-P E SM 18-21 4500-P F
Phosphorus, Total	EPA 200.7 Rev. 4.4 SM 18-21 4500-P E

Organophosphate Pesticides

Atrazine	EPA 8141B
	EPA 8270D
Azinphos methyl	EPA 8141B
Diazinon	EPA 8141B
Disulfoton	EPA 8141B
Famphur	EPA 8141B
Malathion	EPA 8141B
Parathion methyl	EPA 1978 p.25
Simazine	EPA 8141B

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015C EPA 8015D
Gasoline Range Organics	EPA 8015C EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 625 EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 625 EPA 8270D
Diethyl phthalate	EPA 625 EPA 8270D
Dimethyl phthalate	EPA 625 EPA 8270D
Di-n-butyl phthalate	EPA 625 EPA 8270D

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Phthalate Esters

Di-n-octyl phthalate	EPA 625
	EPA 8270D

Polychlorinated Biphenyls

PCB-1016	EPA 608
	EPA 8082A
PCB-1221	EPA 608
	EPA 8082A
PCB-1232	EPA 608
	EPA 8082A
PCB-1242	EPA 608
	EPA 8082A
PCB-1248	EPA 608
	EPA 8082A
PCB-1254	EPA 608
	EPA 8082A
PCB-1260	EPA 608
	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A

Polynuclear Aromatics

Acenaphthene	EPA 625
	EPA 8270D
Acenaphthylene	EPA 625
	EPA 8270D
Anthracene	EPA 625

Polynuclear Aromatics

Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 625
	EPA 8270D
Benzo(a)pyrene	EPA 625
	EPA 8270D
Benzo(b)fluoranthene	EPA 625
	EPA 8270D
Benzo(ghi)perylene	EPA 625
	EPA 8270D
Benzo(k)fluoranthene	EPA 625
	EPA 8270D
Chrysene	EPA 625
	EPA 8270D
Dibenzo(a,h)anthracene	EPA 625
	EPA 8270D
Fluoranthene	EPA 625
	EPA 8270D
Fluorene	EPA 625
	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625
	EPA 8270D
Naphthalene	EPA 625
	EPA 8270D
Phenanthrene	EPA 625
	EPA 8270D
Pyrene	EPA 625

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Polynuclear Aromatics

Priority Pollutant Phenols

Pyrene EPA 8270D

4-Methylphenol EPA 8270D

Priority Pollutant Phenols

4-Nitrophenol EPA 625

2,3,4,6 Tetrachlorophenol EPA 8270D

2,4,5-Trichlorophenol EPA 625

EPA 8270D

Cresols, Total EPA 625

2,4,6-Trichlorophenol EPA 625

EPA 8270D

Pentachlorophenol EPA 625

EPA 8270D

2,4-Dichlorophenol EPA 625

EPA 8270D

Phenol EPA 625

EPA 8270D

2,4-Dimethylphenol EPA 625

Residue

Settleable Solids SM 18-21 2540 F (97)

EPA 8270D

Solids, Total SM 18-21 2540B (97)

2,4-Dinitrophenol EPA 625

Solids, Total Dissolved SM 18-21 2540C (97)

EPA 8270D

2-Chlorophenol EPA 625

Solids, Total Suspended SM 18-21 2540D (97)

EPA 8270D

Semi-Volatile Organics

2-Methyl-4,6-dinitrophenol EPA 625

1,1'-Biphenyl EPA 8270D

EPA 8270D

1,2-Dichlorobenzene, Semi-volatile EPA 8270D

2-Methylphenol EPA 625

1,3-Dichlorobenzene, Semi-volatile EPA 8270D

EPA 8270D

1,4-Dichlorobenzene, Semi-volatile EPA 8270D

2-Nitrophenol EPA 625

2-Methylnaphthalene EPA 8270D

EPA 8270D

Acetophenone EPA 8270D

3-Methylphenol EPA 8270D

alpha-Terpineol EPA 625

4-Chloro-3-methylphenol EPA 625

Benzaldehyde EPA 8270D

EPA 8270D

Benzoic Acid EPA 8270D

4-Methylphenol EPA 625

Benzyl alcohol EPA 8270D

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Semi-Volatile Organics

Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 624
	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 624
	EPA 8260C
1,4-Dichlorobenzene	EPA 624
	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 624
	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 624
	EPA 8260C
Ethyl benzene	EPA 624
	EPA 8260C
Isopropylbenzene	EPA 8260C
o-Phthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C

Volatile Aromatics

p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 624
	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 624
	EPA 8260C
Total Xylenes	EPA 624
	EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 624
	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 624
	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 624
	EPA 8260C
1,1-Dichloroethane	EPA 624
	EPA 8260C
1,1-Dichloroethene	EPA 624
	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8011

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Volatile Halocarbons

Volatile Halocarbons

1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8011
	EPA 8260C
1,2-Dichloroethane	EPA 624
	EPA 8260C
1,2-Dichloropropane	EPA 624
	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 624
	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 624
	EPA 8260C
Bromoform	EPA 624
	EPA 8260C
Bromomethane	EPA 624
	EPA 8260C
Carbon tetrachloride	EPA 624
	EPA 8260C
Chloroethane	EPA 624
Chloroform	EPA 624
	EPA 8260C
Chloromethane	EPA 624
	EPA 8260C
cis-1,2-Dichloroethene	EPA 624

cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 624
	EPA 8260C
Dibromochloromethane	EPA 624
	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 624
	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methyl iodide	EPA 8260C
Methylene chloride	EPA 624
	EPA 8260C
Tetrachloroethene	EPA 624
	EPA 8260C
trans-1,2-Dichloroethene	EPA 624
	EPA 8260C
trans-1,3-Dichloropropene	EPA 624
	EPA 8260C
trans-1,4-Dichloro-2-butene	EPA 8260C
Trichloroethene	EPA 624
	EPA 8260C
Trichlorofluoromethane	EPA 624
	EPA 8260C
Vinyl chloride	EPA 624
	EPA 8260C

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Volatiles Organics

Wastewater Metals I

1,4-Dioxane	EPA 8260C	Chromium, Total	EPA 6010C
2-Butanone (Methylethyl ketone)	EPA 8260C	Copper, Total	EPA 200.7 Rev. 4.4
2-Hexanone	EPA 8260C		EPA 6010C
4-Methyl-2-Pentanone	EPA 8260C	Iron, Total	EPA 200.7 Rev. 4.4
Acetone	EPA 8260C		EPA 6010C
Carbon Disulfide	EPA 8260C	Lead, Total	EPA 200.7 Rev. 4.4
Cyclohexane	EPA 8260C		EPA 6010C
Di-ethyl ether	EPA 8260C		EPA 7010
Ethylene Glycol	EPA 8015C		SM 18-19, 21 3113B (99 & 04)
	EPA 8015D	Magnesium, Total	EPA 200.7 Rev. 4.4
Isobutyl alcohol	EPA 8015C		EPA 6010C
	EPA 8015D	Manganese, Total	EPA 200.7 Rev. 4.4
Methyl acetate	EPA 8260C		EPA 6010C
Methyl cyclohexane	EPA 8260C	Nickel, Total	EPA 200.7 Rev. 4.4
Vinyl acetate	EPA 8260C		EPA 6010C

Wastewater Metals I

	Potassium, Total	EPA 200.7 Rev. 4.4
Barium, Total		EPA 6010C
		EPA 200.7 Rev. 4.4
	Silver, Total	EPA 6010C
Cadmium, Total		EPA 7010
		SM 18-19, 21 3113B (99 & 04)
	Sodium, Total	EPA 200.7 Rev. 4.4
Calcium, Total		EPA 6010C
	Strontium, Total	EPA 200.7 Rev. 4.4
Chromium, Total		EPA 6010C

	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 7010
	SM 18-19, 21 3113B (99 & 04)
	EPA 200.7 Rev. 4.4
	EPA 6010C
	EPA 200.7 Rev. 4.4

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Wastewater Metals II

Wastewater Metals III

Aluminum, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Antimony, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 7010 SM 18-19, 21 3113B (99 & 04)
Arsenic, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 7010 SM 18-19, 21 3113B (99 & 04)
Beryllium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Chromium VI	EPA 7196A SM 18-19 3500-Cr D
Mercury, Total	EPA 245.1 Rev. 3.0 EPA 7470A
Selenium, Total	EPA 200.7 Rev. 4.4 EPA 6010C EPA 7010 SM 18-19, 21 3113B (99 & 04)
Vanadium, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Zinc, Total	EPA 200.7 Rev. 4.4 EPA 6010C

Cobalt, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Gold, Total	EPA 200.7 Rev. 4.4
Molybdenum, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Thallium, Total	EPA 200.7 Rev. 4.4 EPA 200.9 Rev. 2.2 EPA 6010C EPA 7010 SM 18-19, 21 3113B (99 & 04)
Tin, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Titanium, Total	EPA 200.7 Rev. 4.4 EPA 6010C

Wastewater Miscellaneous

Boron, Total	EPA 200.7 Rev. 4.4 EPA 6010C
Bromide	EPA 300.0 Rev. 2.1
Color	SM 18-21 2120B (01)
Cyanide, Total	EPA 335.4 Rev. 1.0 EPA 9012B SM 18-21 4500-CN G (99)
Formaldehyde	EPA 8315A
Oil and Grease Total Recoverable (HEM)	EPA 1664A EPA 9070A (Solvent:Hexane)

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Wastewater Miscellaneous

Organic Carbon, Total	SM 18-21 5310C (00)
Phenols	EPA 420.4 Rev. 1.0
Specific Conductance	SM 18-21 2510B (97)
Sulfide (as S)	SM 18-21 4500-S D (00)
Surfactant (MBAS)	SM 18-21 5540C (00)
Total Petroleum Hydrocarbons	EPA 1664A
Turbidity	SM 18-21 2130 B (01)

Sample Preparation Methods

EPA 3005A
EPA 3010A
EPA 3510C
EPA 3520C
EPA 5030C
EPA 9010C
SM 18-20 4500-CN C
SM 18-21 4500-NH3 B (97)
SM 18-21 4500-P b.5

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C

Amines

1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D

Benzidines

3,3'-Dichlorobenzidine	EPA 8270D
Benzidine	EPA 8270D

Characteristic Testing

Corrosivity	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Reactivity	SW-846 Ch7 Sec. 7.3
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B

Chlorinated Hydrocarbon Pesticides

Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270D
Simazine	EPA 8141B
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D

Serial No.: 49907

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014
Issued April 01, 2013
Revised December 27, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. PHYLLIS SHILLER
PHOENIX ENVIRONMENTAL LABS
587 EAST MIDDLE TURNPIKE
MANCHESTER, CT 06040

NY Lab Id No: 11301

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA 8270D
2-Chloronaphthalene	EPA 8270D
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
MCPA	EPA 8151A
MCPP	EPA 8151A
Pentachlorophenol	EPA 8151A

Haloethers

4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D
Bis(2-chloroisopropyl) ether	EPA 8270D

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270D SIM
Acenaphthylene Low Level	EPA 8270D SIM
Anthracene Low Level	EPA 8270D SIM
Benzo(a)anthracene Low Level	EPA 8270D SIM
Benzo(a)pyrene Low Level	EPA 8270D SIM
Benzo(b)fluoranthene Low Level	EPA 8270D SIM
Benzo(g,h,i)perylene Low Level	EPA 8270D SIM
Benzo(k)fluoranthene Low Level	EPA 8270D SIM
Chrysene Low Level	EPA 8270D SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270D SIM
Fluoranthene Low Level	EPA 8270D SIM
Fluorene Low Level	EPA 8270D SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270D SIM
Naphthalene Low Level	EPA 8270D SIM
Phenanthrene Low Level	EPA 8270D SIM
Pyrene Low Level	EPA 8270D SIM

Metals I

Barium, Total	EPA 6010C
Cadmium, Total	EPA 6010C
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
Copper, Total	EPA 6010C
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
Magnesium, Total	EPA 6010C

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All approved analytes are listed below:*

Metals I

Manganese, Total	EPA 6010C
Nickel, Total	EPA 6010C
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
Sodium, Total	EPA 6010C
Strontium, Total	EPA 6010C

Metals II

Aluminum, Total	EPA 6010C
Antimony, Total	EPA 6010C
Arsenic, Total	EPA 6010C
Beryllium, Total	EPA 6010C
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010C
Vanadium, Total	EPA 6010C
Zinc, Total	EPA 6010C

Metals III

Cobalt, Total	EPA 6010C
Molybdenum, Total	EPA 6010C
Thallium, Total	EPA 6010C
Tin, Total	EPA 6010C
Titanium, Total	EPA 6010C

Minerals

Bromide	EPA 9056A
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Minerals

Chloride	EPA 9056A
Fluoride, Total	EPA 9056A
Sulfate (as SO ₄)	EPA 9056A

Miscellaneous

Boron, Total	EPA 6010C
Cyanide, Total	EPA 9012B
Formaldehyde	EPA 8315A
Organic Carbon, Total	EPA 9060A Lloyd Kahn Method
Phenols	EPA 9065
	EPA 9066
Specific Conductance	EPA 9050A
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D

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Nutrients		Polychlorinated Biphenyls	
Nitrate (as N)	EPA 9056A	PCB-1242	EPA 8082A
Nitrite (as N)	EPA 9056A	PCB-1248	EPA 8082A
Organophosphate Pesticides		PCB-1254	EPA 8082A
Azinphos methyl	EPA 8141B	PCB-1260	EPA 8082A
Diazinon	EPA 8141B	PCB-1262	EPA 8082A
Disulfoton	EPA 8141B	PCB-1268	EPA 8082A
Famphur	EPA 8141B	Polynuclear Aromatic Hydrocarbons	
Malathion	EPA 8141B	Acenaphthene	EPA 8270D
Petroleum Hydrocarbons		Acenaphthylene	EPA 8270D
Diesel Range Organics	EPA 8015C	Anthracene	EPA 8270D
	EPA 8015D	Benzo(a)anthracene	EPA 8270D
Gasoline Range Organics	EPA 8015C	Benzo(a)pyrene	EPA 8270D
	EPA 8015D	Benzo(b)fluoranthene	EPA 8270D
Phthalate Esters		Benzo(ghi)perylene	EPA 8270D
Benzyl butyl phthalate	EPA 8270D	Benzo(k)fluoranthene	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D	Chrysene	EPA 8270D
Diethyl phthalate	EPA 8270D	Dibenzo(a,h)anthracene	EPA 8270D
Dimethyl phthalate	EPA 8270D	Fluoranthene	EPA 8270D
Di-n-butyl phthalate	EPA 8270D	Fluorene	EPA 8270D
Di-n-octyl phthalate	EPA 8270D	Indeno(1,2,3-cd)pyrene	EPA 8270D
Polychlorinated Biphenyls		Naphthalene	EPA 8270D
PCB-1016	EPA 8082A	Phenanthrene	EPA 8270D
PCB-1221	EPA 8082A	Pyrene	EPA 8270D
PCB-1232	EPA 8082A	Priority Pollutant Phenols	
		2,3,4,6 Tetrachlorophenol	EPA 8270D

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Priority Pollutant Phenols

2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D
2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
3-Methylphenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D

Semi-Volatile Organics

Dibenzofuran	EPA 8270D
Volatile Aromatics	
1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Aromatics

Total Xylenes EPA 8260C

Volatile Halocarbons

1,1,1,2-Tetrachloroethane EPA 8260C
1,1,1-Trichloroethane EPA 8260C
1,1,2,2-Tetrachloroethane EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane EPA 8260C
1,1,2-Trichloroethane EPA 8260C
1,1-Dichloroethane EPA 8260C
1,1-Dichloroethene EPA 8260C
1,1-Dichloropropene EPA 8260C
1,2,3-Trichloropropane EPA 8260C
1,2-Dibromo-3-chloropropane EPA 8260C
1,2-Dibromoethane EPA 8260C
1,2-Dichloroethane EPA 8260C
1,2-Dichloropropane EPA 8260C
1,3-Dichloropropane EPA 8260C
2,2-Dichloropropane EPA 8260C
Bromochloromethane EPA 8260C
Bromodichloromethane EPA 8260C
Bromoform EPA 8260C
Bromomethane EPA 8260C
Carbon tetrachloride EPA 8260C
Chloroethane EPA 8260C
Chloroform EPA 8260C
Chloromethane EPA 8260C

Volatile Halocarbons

cis-1,2-Dichloroethene EPA 8260C
cis-1,3-Dichloropropene EPA 8260C
Dibromochloromethane EPA 8260C
Dibromomethane EPA 8260C
Dichlorodifluoromethane EPA 8260C
Hexachlorobutadiene, Volatile EPA 8260C
Methylene chloride EPA 8260C
Tetrachloroethene EPA 8260C
trans-1,2-Dichloroethene EPA 8260C
trans-1,3-Dichloropropene EPA 8260C
trans-1,4-Dichloro-2-butene EPA 8260C
Trichloroethene EPA 8260C
Trichlorofluoromethane EPA 8260C
Vinyl chloride EPA 8260C

Volatile Organics

1,4-Dioxane EPA 8260C
2-Butanone (Methylethyl ketone) EPA 8260C
2-Hexanone EPA 8260C
4-Methyl-2-Pentanone EPA 8260C
Acetone EPA 8260C
Carbon Disulfide EPA 8260C
Cyclohexane EPA 8260C
Ethylene Glycol EPA 8015D
Methyl acetate EPA 8260C

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NY Lab Id No: 11301

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Volatile Organics

Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C

Sample Preparation Methods

EPA 3050B
EPA 3060A
EPA 3540C
EPA 3545A
EPA 3550C
EPA 3580A
EPA 5021A
EPA 5035A-H
EPA 5035A-L
EPA 9010C
EPA 9030B

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Lead In Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

Sample Preparation Methods

EPA 3050B

Serial No.: 48590

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Acrylates

Acrylonitrile	EPA TO-15
Methyl methacrylate	EPA TO-15

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene	EPA TO-14A
	EPA TO-15
Hexachlorobutadiene	EPA TO-14A
	EPA TO-15
Hexachloroethane	EPA TO-14A
	EPA TO-15

Metals I

Lead, Total	EPA 7010
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Polychlorinated Biphenyls

PCB-1016	EPA TO-10A
PCB-1221	EPA TO-10A
PCB-1232	EPA TO-10A
PCB-1242	EPA TO-10A
PCB-1248	EPA TO-10A
PCB-1254	EPA TO-10A
PCB-1260	EPA TO-10A
PCB-1262	EPA TO-10A
PCB-1268	EPA TO-10A

Polynuclear Aromatics

Naphthalene	EPA TO-15
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Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA TO-14A
	EPA TO-15
1,2-Dichlorobenzene	EPA TO-14A
	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-14A
	EPA TO-15
1,3-Dichlorobenzene	EPA TO-14A
	EPA TO-15
1,4-Dichlorobenzene	EPA TO-14A
	EPA TO-15
2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-14A
	EPA TO-15
Chlorobenzene	EPA TO-14A
	EPA TO-15
Ethyl benzene	EPA TO-14A
	EPA TO-15
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15
Styrene	EPA TO-14A
	EPA TO-15
Toluene	EPA TO-14A
	EPA TO-15
Total Xylenes	EPA TO-14A
	EPA TO-15

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All approved analytes are listed below:*

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA TO-14A EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-14A EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-14A EPA TO-15
1,1,2-Trichloroethane	EPA TO-14A EPA TO-15
1,1-Dichloroethane	EPA TO-14A EPA TO-15
1,1-Dichloroethene	EPA TO-14A EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-14A EPA TO-15
1,2-Dibromoethane	EPA TO-14A EPA TO-15
1,2-Dichloroethane	EPA TO-14A EPA TO-15
1,2-Dichloropropane	EPA TO-14A EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-14A EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-14A EPA TO-15

Purgeable Halocarbons

Carbon tetrachloride	EPA TO-14A EPA TO-15
Chloroethane	EPA TO-14A EPA TO-15
Chloroform	EPA TO-14A EPA TO-15
Chloromethane	EPA TO-14A EPA TO-15
cis-1,2-Dichloroethene	EPA TO-14A EPA TO-15
cis-1,3-Dichloropropene	EPA TO-14A EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-14A EPA TO-15
Methylene chloride	EPA TO-14A EPA TO-15
Tetrachloroethene	EPA TO-14A EPA TO-15
trans-1,2-Dichloroethene	EPA TO-14A EPA TO-15
trans-1,3-Dichloropropene	EPA TO-14A EPA TO-15
Trichloroethene	EPA TO-14A EPA TO-15
Trichlorofluoromethane	EPA TO-14A

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Purgeable Halocarbons

Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-14A
	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-14A
	EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-14A
	EPA TO-15
1,3-Butadiene	EPA TO-14A
	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-15
Acetone	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
tert-butyl alcohol	EPA TO-15

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