APPENDIX O

Disposal Facility Profiles and Approvals

Environmental Waste Minimization, Inc.
14 Brick Kiln Court
Northampton, Pennsylvania, 18067
Tel: 484-275-6900
Fax: 484-275-6970

514-520 West 28th Street
New York, NY 10001
5/20/2014
REV 5/21/2014

Soil Excavation Plan – Transportation and Disposal

Section 1: Disposal Facilities and Transporters

A. Hazardous Waste – Grids 4A, 5A, 8A, 11A

1. Disposal Facility:
   a. Clean Earth of North Jersey
      115 Jacobus Avenue
      Kearny, NJ 07032

2. Transporter:
   a. J&D Trucking, Inc.
      3526 Northwest Boulevard
      Vineland, NJ 08360

B. **Non-Hazardous Landfill** – Grids 3A, 7A, 12A and coal ash pockets from Non Hazardous Grids

1. Disposal Facility:
   a. Tunnell Hill Reclamation Landfill
      2500 T R 205 Rte 2
      New Lexington, OH 43764

      Transshipped per:

      Westside Environmental
      5600 Westside Avenue
      North Bergen, NJ 07047

2. Transporter:
   a. Cardella Trucking Co., Inc. dba Cardella Waste Services
      2400 Tonnelle Avenue
      North Bergen, NJ 07047

C. **NJ Non RES Modified** – Grids 1A, 2A, 6A, 9A, 10A, 2B, 3B, 7B, 8B, 11B, 12B, 11C, 12C

   a. Disposal Facility:
      i. Morris-Blanchard Redevelopment Project
         Blanchard Street
         Newark, NJ 07105

   b. Transporter:
      i. Cuenca Coronel Trucking, Inc.
         74 Academy Street
         Belleville, NJ 07109

D. **NJ RES** – Grids 1B, 4B, 5B, 6B, 9B, 10B, 1-10C, 1-3D, 6D, 11D, 12D

a. Disposal Facility:
    i. Morris-Blanchard Redevelopment Project
    Blanchard Street
    Newark, NJ 07105

b. Transporter:
    i. Cuenca Coronel Trucking, Inc.
    74 Academy Street
    Belleville, NJ 07109

E. Concrete

a. Disposal Facility:
    i. For Concrete sized >12"
        1. Impact Reuse and Recovery Center
        1000 Page Avenue
        Lyndhurst, NJ 07071

    ii. For concrete sized <12"
        2. Morris-Blanchard Redevelopment Project
        Blanchard Street
        Newark, NJ 07105

b. Transporter:
    i. Cuenca Coronel Trucking, Inc.
    74 Academy Street
    Belleville, NJ 07109

Section 2: Hazardous Waste Management

Hazardous waste grids have been identified onsite.

3. Grid 4A
4. Grid 5A
5. Grid 8A
6. Grid 11A (2ft buffer zone between 11A and 12A required)

A 1ft buffer zone will be added to the horizontal and vertical borders during excavation. A 2ft buffer zone between 11A and 12A will be required. All material within the buffer zone and grid will ship to a permitted hazardous waste disposal facility. Hazardous waste must be kept separate from any other material onsite.

If hazardous waste is loaded out, the excavator bucket must be decontaminated prior to loading out any non-hazardous materials.

Section 3: Stockpile Management

Stockpiles, if required, will be placed on plastic sheeting to prevent cross-contamination. The source of all stockpiles must be recorded (grid and layer location). Different grids and/or layers of soil should be stockpiled if possible. If stockpiles are mixed for any reason, the more-contaminated stockpile's approved disposal facility will be utilized (i.e. if a NJ Non-RES grid is mixed with Non-hazardous landfill grid, the entire stockpile will ship to the non-hazardous landfill facility).

Section 4: Blanchard – Coal Ash and Plastic Sheeting

Blanchard is unable to accept loads containing coal ash >3%. If large pockets of coal ash are encountered during excavation/loadout of Blanchard-approved grids, the coal ash will need to be separated and stockpiled. The coal ash may be mixed with outbound soils destined for non-hazardous landfill at Tunnel Hill.

The 6mil poly sheeting utilized for stockpiles is unacceptable at Blanchard. If poly sheeting is utilized onsite, it must be segregated and shipped will outbound loads destined for non-hazardous landfill at Tunnel Hill.

Section 5: Petroleum Impacted Material

Petroleum impacted soils, if encountered, must be segregated and stockpiled. Tunnel Hill LF can accept petroleum impacted soils. A profile amendment form will need to be signed and submitted for approval. No additional testing will be required if generator certifies that petroleum contamination is non-hazardous based upon site history.

Section 6: Truck Wash Disposal

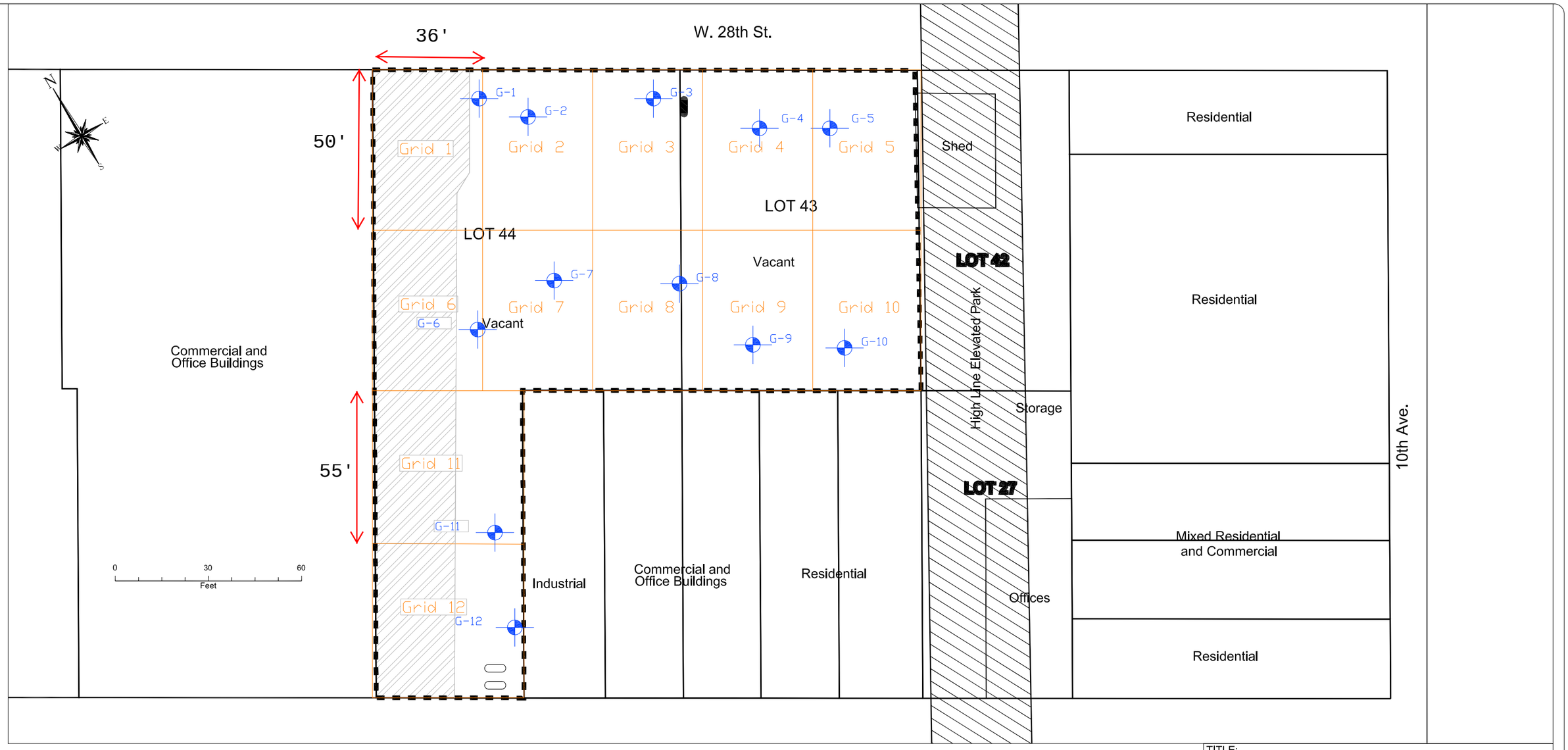
Gravel from the onsite truck wash will require disposal. The gravel will be assumed to contain dirt from all grids within whichever layer being shipped offsite during the truck washes operation. Layer A materials from the truck wash should be included with hazardous waste loads shipping to Clean Earth of North Jersey. Layer B and C material may be included with outbound loads to Blanchard as NJ Non RES Modified. Material from ayer D may be included with outbound loads to Blanchard as NJ RES.

Section 7: Dewatering Sediment Tank Cleanout

A dewatering system had been installed onsite previously. During installation, all spoils were removed from the pipes and managed according to the waste characterization analysis already collected. The wells extend down to bedrock across the site.

The dewatering system will not be turned on until all of Layer 1 has been excavated and offsite (including the 1ft over-excavation of hazardous waste grids). Once layer 1 is removed, the only soils remaining onsite have been approved into the Morris-Blanchard redevelopment.

When the sediment tank needs to be emptied, all of the sediment can be added to outbound NJ Non RES loads destined for disposal at Blanchard.



Legend

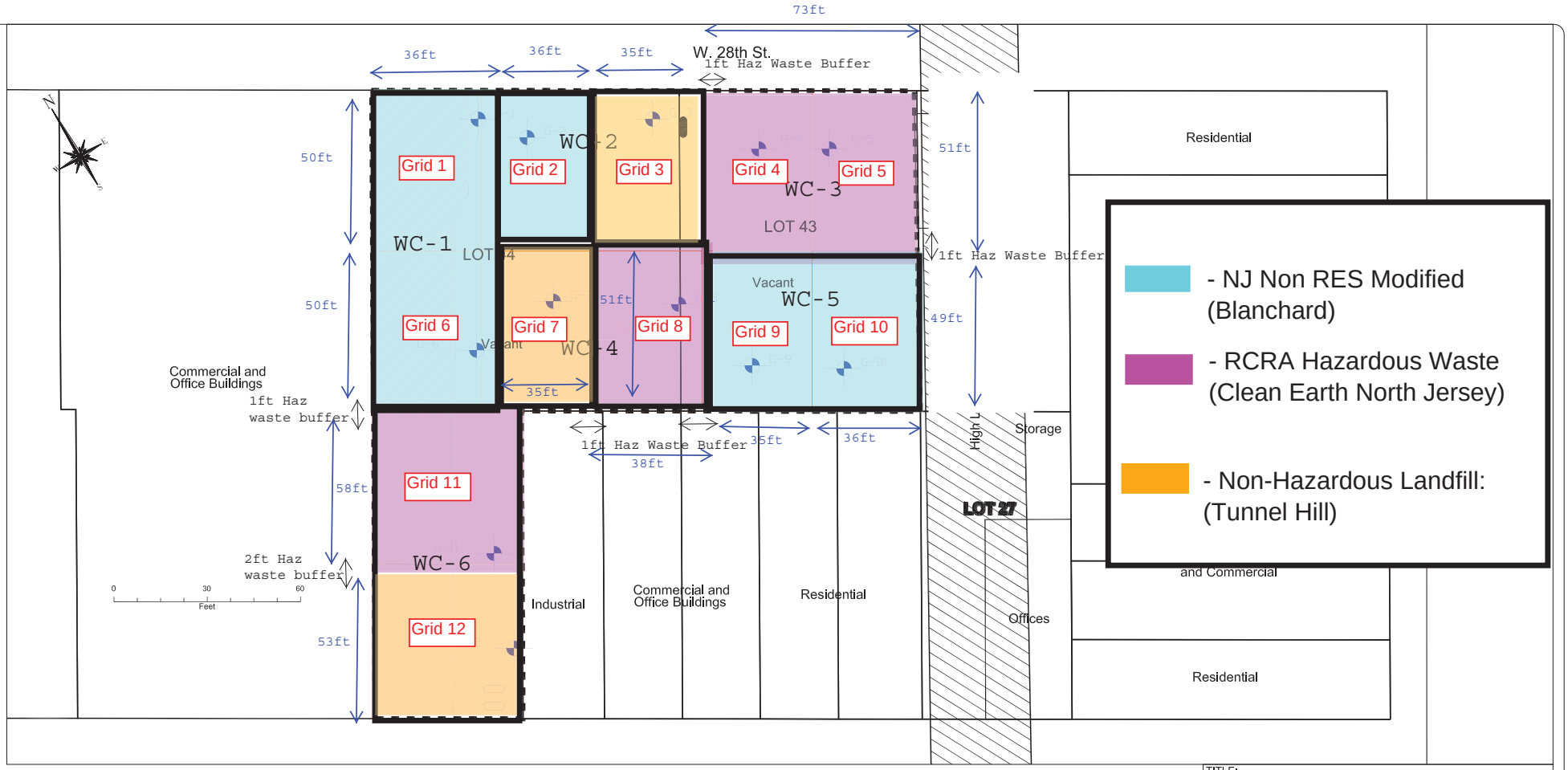
- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

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



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

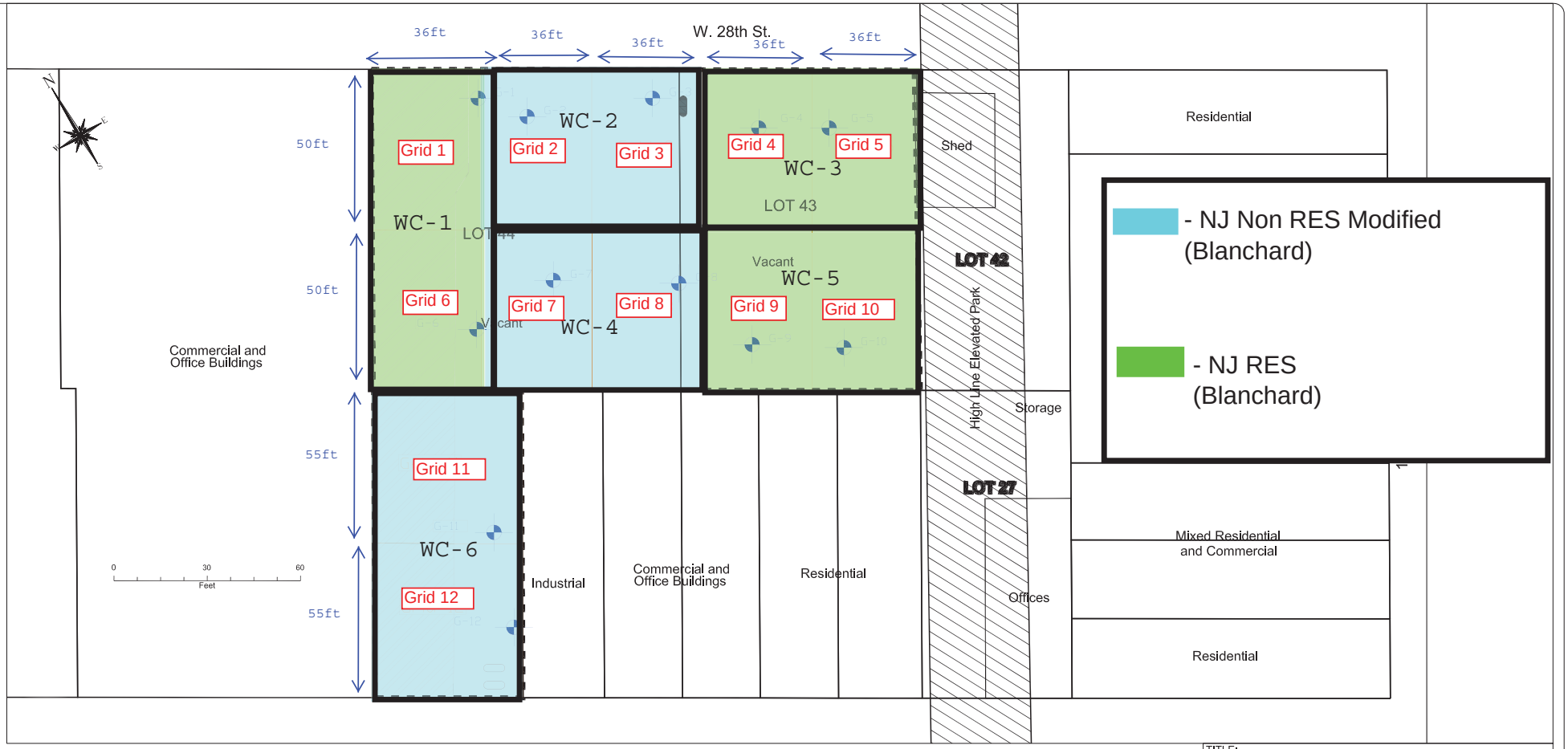
520 West 28th Street
Color-Coded Disposal Map 5-20-2014
Layer A: Grade to El +5'

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

Environmental Waste Minimization, Inc.
EWMI



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

520 West 28th Street
Color-Coded Disposal Map 5-20-2014
Layer B: El. +5' to -1'

TITLE:	Boring Location Map		
514-520 West 28th Street, New York, NY			
DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

Environmental Waste Minimization, Inc.
EWMI

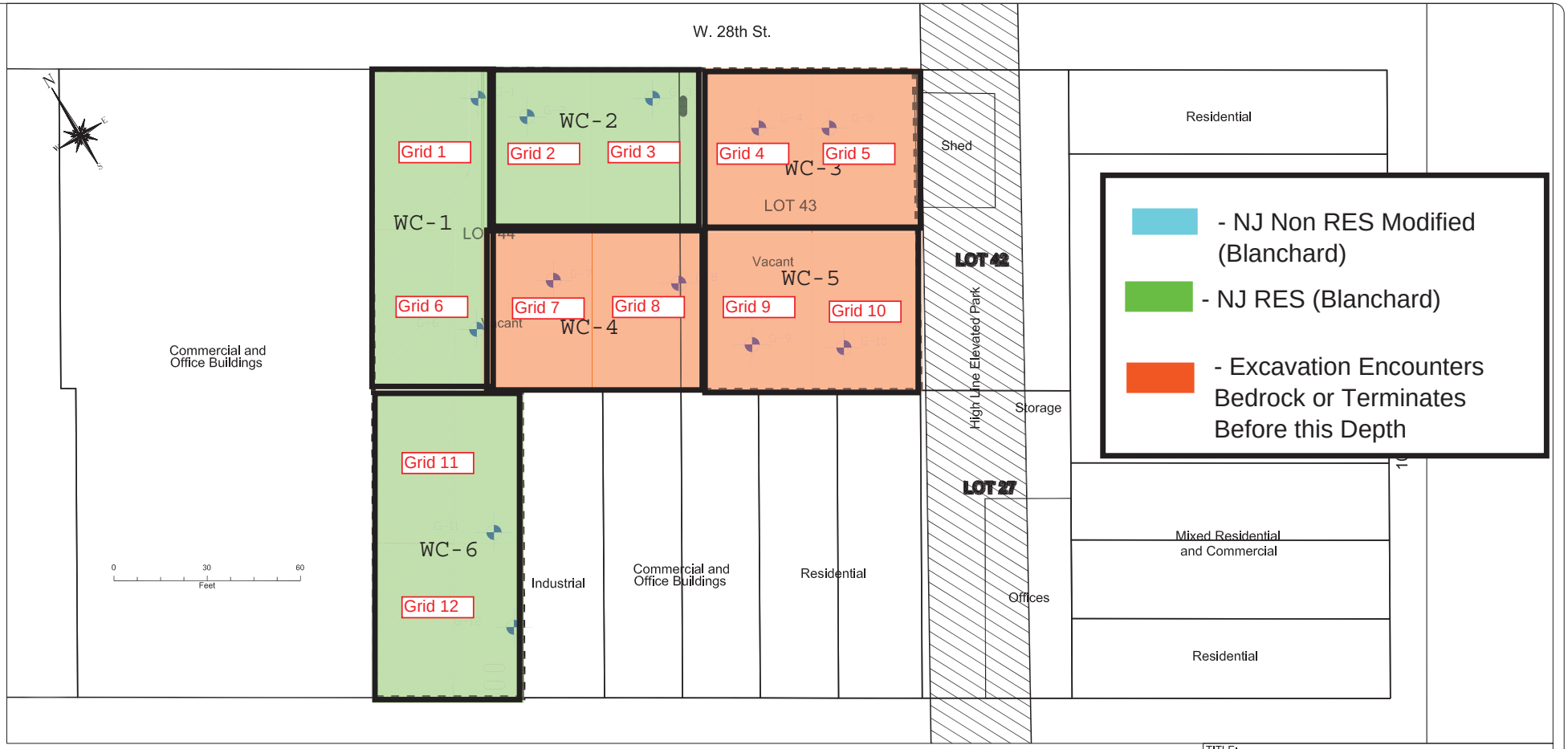
Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

520 West 28th Street
Color-Coded Disposal Map 5-20-2014
Layer C: El -1' to -7'

TITLE:	Boring Location Map		
514-520 West 28th Street, New York, NY			
DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

Environmental Waste Minimization, Inc.
EWMI



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

520 West 28th Street
Color-Coded Disposal Map 5-20-2014
Layer D: El -7' to -13'

TITLE:	Boring Location Map		
514-520 West 28th Street, New York, NY			
DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

Environmental Waste Minimization, Inc.
EWMI

520 West 28th Street
Elevation Disposal Map

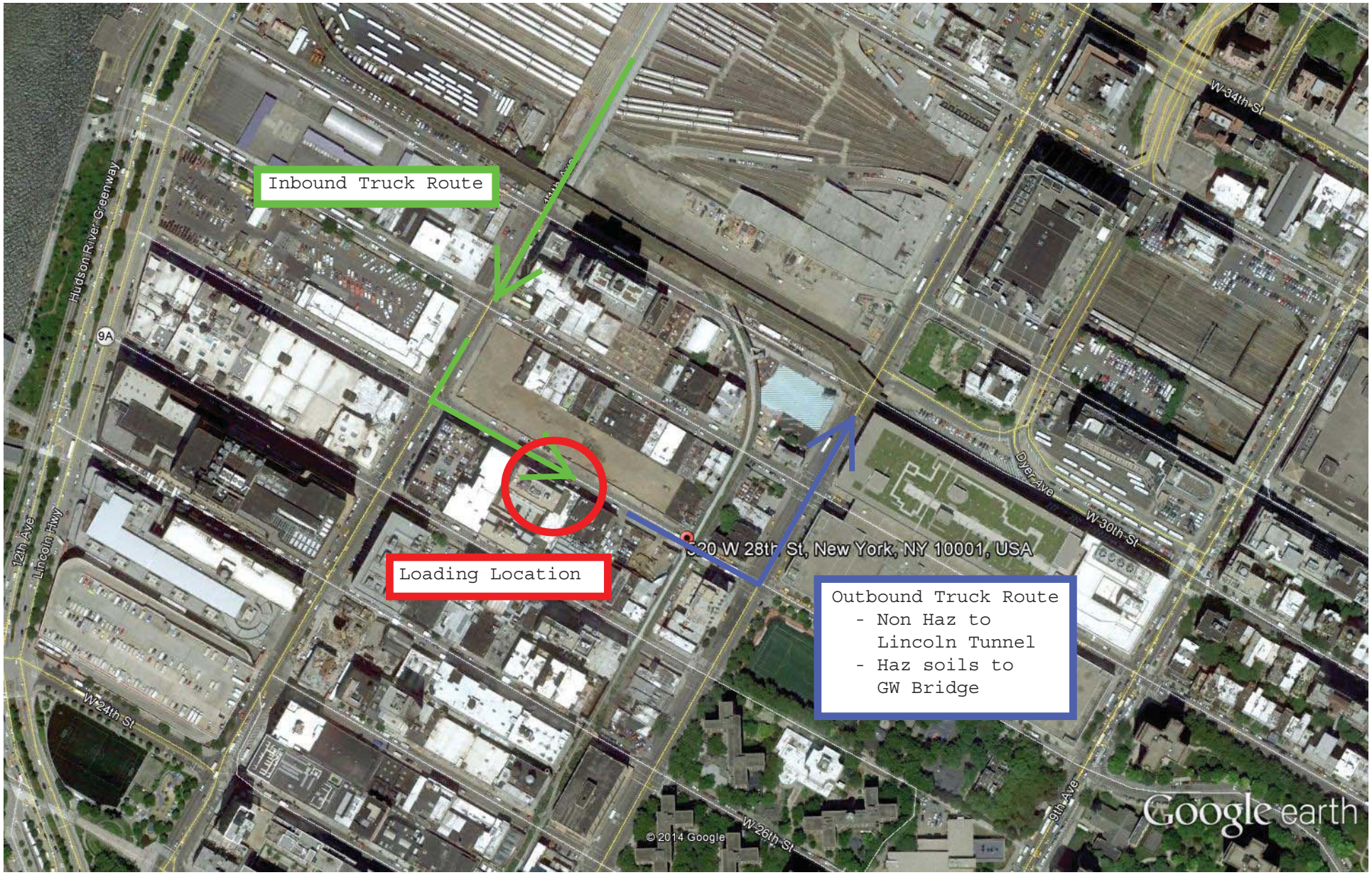
Depth
(Below Grade Surface; bgs)

	Grid 1	Grid 2	Grid 3	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9	Grid 10	Grid 11	Grid 12
0												
1	Grid 1A NJ Non RES Blanchard	Grid 2A NJ Non RES Blanchard	Grid 3A Sub D Landfill Tunnel Hill	Grid 4A Haz Waste CENJ	Grid 5A Haz Waste CENJ	Grid 6A NJ Non RES Blanchard	Grid 7A Sub D Landfill Tunnel Hill	Grid 8A Haz Waste CENJ	Grid 9A NJ Non RES Blanchard	Grid 10A NJ Non RES Blanchard	Grid 11A Haz Waste CENJ	Grid 12A Sub D Landfill Tunnel Hill
2												
3				*1ft deep buffer*	*1ft deep buffer*			*1ft deep buffer*			*1ft deep buffer*	
4												
5												
6												
7	Grid 1B NJ RES Blanchard	Grid 2B NJ Non RES Blanchard	Grid 3B NJ Non RES Blanchard	Grid 4B NJ RES Blanchard	Grid 5B NJ RES Blanchard	Grid 6B NJ RES Blanchard	Grid 7B NJ Non RES Blanchard	Grid 8B NJ Non RES Blanchard	Grid 9B NJ RES Blanchard	Grid 10B NJ RES Blanchard	Grid 11B NJ Non RES Blanchard	Grid 12B NJ Non RES Blanchard
8												
9												
10												
11												
12												
13	Grid 1C NJ RES Blanchard	Grid 2C NJ RES Blanchard	Grid 3C NJ RES Blanchard	Grid 4C NJ RES Blanchard	Grid 5C NJ RES Blanchard	Grid 6C NJ RES Blanchard	Grid 7C NJ RES Blanchard	Grid 8C NJ RES Blanchard	Grid 9C NJ RES Blanchard	Grid 10C NJ RES Blanchard	Grid 11C NJ Non RES Blanchard	Grid 12C NJ Non RES Blanchard
14												
15												
16												
17												
18												
19	Grid 1D NJ RES Blanchard	Grid 2D NJ RES Blanchard	Grid 3D NJ RES Blanchard	Grid 4D Encounters Bedrock	Grid 5D Encounters Bedrock	Grid 6D NJ RES Blanchard	Grid 7D Encounters Bedrock	Grid 8D Encounters Bedrock	Grid 9D Encounters Bedrock	Grid 10D Encounters Bedrock	Grid 11D NJ RES Blanchard	Grid 12D NJ RES Blanchard
20												
21												
22												
23												
24												
25												

- NJ RES to Blanchard Brownfield
- NJ Non RES to Blanchard Brownfield
- Subtitle D Landfill Material to Tunnel Hill LF via Westside Transload
-Hazardous Lead Soil to Clean Earth of North Jersey

Environmental Waste Minimization, Inc.
EWMI

Date: 5/20/2014



520 West 28th Street
Truck Route Map 5-20-2014

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www.impactenvironmental.com

APPLICATION FORM

IMPACT REUSE AND RECOVERY CENTER - LYNDHURST, NJ

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

PROJECT INFORMATION

1) NAME, ADDRESS AND TELEPHONE NUMBER OF SOURCE OWNER/GENERATOR:
28th Highline Associates, LLC c/o The Related Companies
ADD: 60 Columbus Circle, New York, NY 10023
TEL: _____

2) SOURCE NAME AND PHYSICAL LOCATION (INCLUDE LOT AND BLOCK):
W 28th St Project
ADD: 514-520 W 28th St, New York, NY 10001
BLOCK: _____ LOT: _____

3) VOLUME SUBJECT OF THIS APPLICATION: 1,000 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.

Site was previously and most recently occupied by a scrap yard (Lot 43) and separate car rental establishment (Lot 44). These businesses ceased operations in Dec. 2012 prior to entrance in the BCP. Material is being generated while excavating to pour the foundation of a building. Material is planned to ship offsite beginning March 2014 a running throughout the year.

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

Site is enrolled in the New York State Brownfield Cleanup Program (BCP) Site #C231082.

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

All loads will be tarped once loaded. All loads will head directly to Lyndhurst once loaded.

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):

☒ CONCRETE & CONCRETE BLOCK 100 %

☐ CINDER BLOCK _____ %

☐ BRICK _____ %

☐ ASPHALT & ASPHALT MILLINGS _____ %

☐ PLASTER _____ %

☐ CERAMIC, PORCELAIN, TILE & TERRA COTTA _____ %

☐ OTHER _____ %, DESCRIBE BELOW:

_____

_____

8) INDICATE THE ITEMS CONSIDERED FOR REFERECE 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:
Phoenix Laboratories

ADD: 537 E Middle Tpke, Manchester, CT

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:

G-12 Concrete						

11) NAME, ADDRESS AND TELEPHONE NUMBER OF THE COMPANY THAT PERFORMED THE SAMPLING:
Impact Environmental

ADD: 170 Keyland Ct, Bohemia, NY 11716

TEL: 631-269-8800

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 #:

28th Highline Associates, LLC.

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

New York Concrete Corp

BILLING ENTITY, NAME AND CONTACT #:

Environmental Waste Minimization, Inc.
Arlene Stephens - 4842756900

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 7:26A, NJAC 7:26E AND GUIDANCE FOR CHARACTERIZATION OF CONCRETE AND CLEAN MATERIAL CERTIFICATION FOR RECYCLING.

I AM AWARE THAT THERE ARE SIGNIFICANT PENALITIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBLITY OF FINES AND IMPRISONMENT. I UNDERSTAND THAT, IN ADDITION TO CRIMINAL PENALITIES, 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):

28th Highline Associates, L.L.C., 60 Columbus Circle, NewYork, NY 10023

ADD: _____

PRINTED NAME OF OWNER/GENERATOR: Michael J. Brenner, EVP & Treasurer

SIGNATURE OF OWNER/GENERATOR: Michael J Brenner DATED 3/18/14

IMPACT ENVIRONMENTAL
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March 17, 2014

Mr. Ian Gerencser
Environmental Waste Minimization, Inc.
14 Brick Kiln Ct
Northampton, PA 18067
Page 1 of 1

RE: **Conditional Approval**
514-520 W 28th St
New York, NY 10023

Mr. Gerencser,

We have reviewed information regarding the concrete material from the above referenced site ("site") proposed for acceptance at the Impact Recovery and Reuse Center located at 1000 Page Avenue, Lyndhurst, NJ. The review included an evaluation of laboratory reports prepared by Phoenix Environmental Laboratories, Inc. dated March 17, 2014. Impact Environmental has reviewed the analytical data, compared with the facility permit requirements and determined that samples from the following locations meet our acceptance criteria:

G-12 Concrete

The total volume of approved material is 1,000 cubic yards. This approved material can be disposed of at the facility at a rate of up to 250 tons/day throughout the life of the project. Receipt of all materials is subject to an inspection at the facility. Material found to contain excessive amounts of soil or deleterious material such as municipal waste will be rejected. The facility operates between 7:00 AM to 5:00 PM Monday through Friday and 7:00 AM to 3:00 PM on Saturday. Materials will be accepted and managed in accordance with our permit (NJDEP Permit #CBG110002). Impact Recovery and Reuse Center is in compliance with its permit.

Please note this is a **Conditional Approval.** A final approval is pending an application signed by the generator, and that the information on the application is consistent with project data already reviewed by Impact Environmental. Please also note that Impact Environmental does not typically review project data prior to receiving a signed application, but has made a distinct provision in this case.

Sincerely,

IMPACT ENVIRONMENTAL

Richard Parrish
President

IMPACT ENVIRONMENTAL 170 Keyland Court| Bohemia| NY | 11716 | 631.269.8800
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March 18, 2014

Mr. Ian Gerencser
Environmental Waste Minimization, Inc.
14 Brick Kiln Ct
Northampton, PA 18067
Page 1 of 1

RE: **Final Approval**
514-520 W 28th St
New York, NY 10023

Mr. Gerencser,

We have reviewed information regarding the concrete material from the above referenced site ("site") proposed for acceptance at the Impact Recovery and Reuse Center located at 1000 Page Avenue, Lyndhurst, NJ. The review included an evaluation of laboratory reports for Project ID "W 28th St" prepared by Phoenix Environmental Laboratories, Inc. dated March 17, 2014 as well as a Remedial Investigation Report prepared by Integral Engineering dated June 26, 2013. Impact Environmental has reviewed the analytical data, compared with the facility permit requirements and determined that samples from the following locations meet our acceptance criteria and no exceedances were detected:

G-12 Concrete, SB-12_CON_TOP, SB-28_CON_TOP, SB-24_CON_TOP, SB-10_CON_BOT, SB-17_CON_BOT, SB-11_CON_BOT

The total volume of approved material is 1,000 cubic yards. This approved material can be disposed of at the facility at a rate of up to 250 tons/day throughout the life of the project. Receipt of all materials is subject to an inspection at the facility. Material found to contain excessive amounts of soil or deleterious material such as municipal waste will be rejected. The facility operates between 7:00 AM to 5:00 PM Monday through Friday and 7:00 AM to 3:00 PM on Saturday. Materials will be accepted and managed in accordance with our permit (NJDEP Permit #CBG110002). Impact Recovery and Reuse Center is in compliance with its permit. Accepted material will be crushed down to a suitable geotechnical product and sent to Morris-Blanchard Redevelopment Project in Newark, NJ (SRP PI # 015008)

Sincerely,

IMPACT ENVIRONMENTAL

Richard Parrish
President

IMPACT ENVIRONMENTAL 170 Keyland Court| Bohemia| NY | 11716 | 631.269.8800
welcome to solid ground... www.impactenvironmental.com

APPLICATION FORM

MORRIS BLANCHARD REDEVELOPMENT PROJECT

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

PROJECT INFORMATION

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

NAME: 28th Highline Associates, LLC c/o The Related Companies

ADDRESS: 60 Columbus Circle, New York, NY

TEL: _____

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

NAME: W 28th St Project

ADDRESS: 514-520 W 28th St, New York, NY 10001

LOT: _____ BLOCK: _____

3) VOLUME SUBJECT OF THIS APPLICATION:

1000 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.

Concrete was generated from crushing a concrete slab on site. Concrete is being removed as part of excavation activities related to the construction of a new building. Concrete will be crushed down to a 12" minus product in order to be considered for Blanchard St Redevelopment.

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

Site is enrolled in the New York State Brownfield Cleanup Program (BCP) Site #C231082.

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

All loads will be tarped once loaded. All loads will head directly to Lyndhurst once loaded.

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

☐ VIRGIN CLEAN FILL – INCLUDING UNCONTAMINATED INERT ROCK, SOIL GRAVEL, AND SAND THAT MEET THE CRITERIA OF N.J.A.C 7:26E 6.4. _____%

☒ RECYCLED MASONRY– CRUSHED BRICK, CONCRETE, BROKEN GLASS (NO DEMOLITION WASTE OR DELETERIOUS MATERIAL). _____%

☐ CONSTRUCTIONS SITE FILL MEETING FACILITY ACCEPTANCE CRITERIA – INCLUDING SOIL, GRAVEL, BRICK, AND CONCRETE MATERIAL FROM CONSTRUCTION PROJECTS (NO DEMOLITION WASTE OR DELETERIOUS MATERIAL). _____%

☐ RECYCLING FACILITY FILL – FROM PERMITTED FACILITIES PURSUANT TO N.J.A.C 7:26A. _____%

☐ PROCESSED DREDGE MATERIAL (ADM) – NON-ROCK DREDGED MATERIAL THAT HAS BEEN AMENDED WITH DREDGE ADMIXTURES APPROVED BY NJDEP. _____%

8) INDICATE THE ITEMS CONSIDERED FOR REFERECE 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:

NAME: Phoenix Environmental Laboratories

ADDRESS: 587 E Middle Tpke, Manchester, CT

NJDEP CERTIFICATION ID #: CT-003

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 (ATTACH ADDITIONAL SHEET IF NECESSARY):

G-12 Concrete				
SB-12_CON_TOP,				
SB-28_CON_TOP,				
SB-24_CON_TOP,				
SB-10_CON_BOT,				
SB-17_CON_BOT				

11) SAMPLING FREQUENCY: 1 SAMPLE PER 1000 CUBIC YARDS

12) INFORMATION OF THE COMPANY THAT PERFORMED THE SAMPLING:

NAME: Impact Environmental

ADDRESS: 170 Keyland Ct, Bohemia, NY 11716

TEL: 631-269-8800

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

☐ YES ☐ NA ☒ NO

14) 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 #:

28th Highline Associates, LLC c/o The Related Companies

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

New York Concrete Corp.

BILLING ENTITY, NAME AND CONTACT #:

Environmental Waste Minimization, Inc.

Arlene Stephens 4842756900

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 SAMPLED IN ACCORDANCE WITH NJAC 7:26E, AND IS CLASSIFIEABLE AS MEETING THE FACILITY ACCEPTANCE CRITERIA.

I AM AWARE THAT THERE ARE SIGNIFICANT PENALITIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBLITY OF FINES AND IMPRISONMENT. I UNDERSTAND THAT, IN ADDITION TO CRIMINAL PENALITIES, 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):

NAME: 28th Highline Associates, L.L.C.

ADDRESS: c/o Related, 60 Columbus Circle, NY, NY 10003

TEL: 212-801-1160

PRINTED NAME OF OWNER/GENERATOR: 28th Highline Associates, L.L.C.

SIGNATURE OF OWNER/GENERATOR: Greg Groher

DATED 3/24/14

IMPACT ENVIRONMENTAL
170 Keyland Court| Bohemia| NY | 11716 | 631.269.8800
welcome to solid ground…
www.impactenvironmental.com

March 21, 2014

Mr. Ian Gerencser
Environmental Waste Minimization, Inc.
14 Brick Kiln Ct
Northampton, PA 18067
Page 1 of 2

RE: Source: 514-520 W 28th St
New York, NY 10023
Conditional Approval

Mr. Gerencser:

Impact Environmental Consulting, Inc. has reviewed the analytical data and site background information for site-specific sources to evaluate acceptance of materials into the disposal facility at the Morris Blanchard Redevelopment Project (the "facility") located at 117 Blanchard Street, Newark, NJ in compliance with the facility permit.

Impact Environmental has reviewed information regarding the material from the above referenced site ("site") proposed for acceptance at the facility. The reviewed information includes the following reports from:

- Laboratory reports for Project ID "W 28th St" prepared by Phoenix Environmental Laboratories, Inc. dated March 17, 2014
- Remedial Investigation Report prepared by Integral Engineering dated June 26, 2013

Based on our review, materials from the following sample areas meet the facility's acceptance criteria:

G-12 Concrete, SB-12_CON_TOP, SB-28_CON_TOP, SB-24_CON_TOP, SB-10_CON_BOT, SB-17_CON_BOT, SB-11_CON_BOT

The material is subject to the receipt of the signed application form and the review and final approval of the LSRP assigned to the facility. Receipt of all materials is subject to an inspection at the facility. The following non-analytical limitations will apply:

Permit #	TYPES OF ACCEPTABLE MATERIAL	PHOTO-IONIZATION DETECTOR LIMIT (PPM)	MATERIAL SIZE LIMITATION	MOISTURE CONTENT LIMITATION	TREATED & UNTREATED WOOD LIMITATION	SLAG/ASH/CINDER LIMITATION	TYPES OF UNACCEPTABLE MATERIAL
SRP PI# 015008	Soil and construction fill material meeting facility's criteria	NA	12"	NO FREE-STANDING LIQUID	<1%	<3%	MSW, SLUDGE, DELETERIOUS DEBRIS, HAZARDOUS WASTE

Materials will be accepted and managed in accordance with facility permit and applicable regulatory authorizations.

Please contact me for any further assistance in this matter.

Sincerely,
IMPACT ENVIRONMENTAL

Richard Parrish
President

James P. Mack LLC
Licensed Site Remediation Professional
25 Starview Drive
Hillsborough, New Jersey 08844
908 448 6566
jamespmack@jpm-llc.com
Fill Material Evaluation Memorandum –
28th Street Project – Concrete Only
LSRP Donor Technical Memorandum Tracking No.:053

LSRP DONOR SITE EVALUATION TECHNICAL MEMORANDUM 053

Date: April 7, 2014

To: Tom Gallagher; Morris Companies
Keith Morris; Morris Companies
Randy Bonnell; Morris Companies

From: James Mack; LSRP; JPM LLC
LSRP of Record; Former Fairmount Chemical Site
LSRP License Number 576435

Re: Evaluation of Alternative Fill Material Testing Results for Suitability for Use at Blanchard Street Redevelopment Area located at Blanchard Street, Newark, New Jersey
28th Street Project – Concrete Only
514-520 W 28th St, New York, New York

This fill material donor site represents 1000 cubic yards. The material is concrete that originates from crushing a floor slab. Concrete is in a stockpile that has been crushed to 12 inch minus. One (1) sample set consisting of a discrete sample for VOC analysis and a composite sample was collected to characterize the material. Based upon the soil sampling results, the material is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

Introduction

This technical memorandum evaluates the suitability of fill material located at the 514-520 W 28th Street project for placement at the Blanchard Street Redevelopment Area. The Blanchard Street Redevelopment Area is located in an industrial portion of Newark New Jersey and is an area of brownfield redevelopment. The proposed redevelopment is a large warehouse (700,000 square feet). To allow for the construction of the warehouse, the site grades must be raised above the flood plain. This requires the importation of substantial amount of fill material. The fill

material will initially be used to surcharge the property and ultimately will be placed under site wide engineering and institutional controls. Specifically, the properties currently within the Blanchard Street Redevelopment Area are

- Former Fairmount Chemical Site (Block 2438; Lot 74 and Block 5001; Lot 40)
- Newark Housing Site (Block 2438; Lot 85)
- Lennard Property (Block 5001; Lot 42 and Block 5001; Lot 46)

The NJDEP Site Remediation Program PI# for the Fairmount Chemical Site is 015008 and the ISRA Case Number is E20020444. The Fairmount Chemical site is in compliance with regulatory obligations associated with these NJDEP case tracking numbers. Additionally, an *Alternative Fill/Soil Management Plan, Blanchard Street Redevelopment Area, Newark, New Jersey; Revision 1.1; dated November 2013* has been developed for the Blanchard Street Redevelopment by the LSRP of Record for the Fairmount Street Site. This plan establishes the management criteria for imported fill material for Blanchard Street Redevelopment Area and is the basis for evaluation the suitability of the use of the fill at the Blanchard Street Redevelopment Area. The 2008 RAWP identified one location where Cr+6 concentrations in soil were above the 240 ppm site specific soil remediation standard and required removal. That location is shown on the attached figure. Fill material should not be placed in this location until after the hexavalent chromium impacted soil has been removed.

The proposed amount of material is 1000 cubic yards of crushed concrete that is in a stockpile. The concrete was generated by crushing a building floor slab to 12 inch minus. One discrete and one composite sample have been collected to represent this material. The discrete sample was tested for VOCs and the composite sample was tested for SVOCs, pesticides, herbicides, PCBs and metals including hexavalent chromium and cyanide. This analysis is based upon a review of the Disposal Compliance Package (DCP) prepared by Impact Environmental Consulting Inc. dated March 31, 2014.

Based upon the soil sampling results, the material is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

James P. Mack LLC
Licensed Site Remediation Professional
25 Starview Drive
Hillsborough, New Jersey 08844
908 448 6566
jamespmack@jpm-llc.com

Donor Site Information:

The donor site is located at 514 – 520 W 28th Street, New York, New York. The proposed amount of material is 1000 cubic yards of concrete that has been crushed to 12 inch minus. The site is enrolled in the New York State Brownfield Cleanup Program (BCP) Site #C231082.

Environmental Investigations:

Available environmental information reviewed consisted of the testing results for the one (1) soil sample set described in the Impact Environmental DCP dated March 31, 2014. In that report is a sampling map and a description of the sampling program. The concrete originates from Grid 12. The floor slab was crushed to 12 inch minus and stockpiled. One discrete sample was collected for VOC analysis and a five (5) point composite consisting of discrete concrete chip samples..

Environmental Testing:

One (1) soil sample set was collected to represent the 1000 cubic yard stockpile of concrete material. The sample set consisted of a grab (discrete) sample and a composite sample. The Grab sample was tested for VOCs. The composite sample was tested for SVOCs, PCBs, pesticides/herbicides, metals and hexavalent chromium.

Review of the testing data indicates that no VOCs were detected. The PAHs Benzo-a-Anthracene, Benzo-a-Pyrene and Benzo-b-Fluoranthene were detected at slightly elevated values over the NJDEP RDCSRS or NRDCSRS, but not at concentration that would prevent the placement of this material at BSRA. No PCBs, pesticides or herbicides were detected and the metals values detected were below acceptance criteria for BSRA.

Discussion with Regard to Acceptance of Fill Material for Placement at Blanchard Street Redevelopment Area

This fill material donor site represents 1000 cubic yards. The material is concrete that originates from crushing a floor slab. Concrete is in a stockpile that has been crushed to 12 inch minus. One (1) sample set consisting of a discrete sample for VOC analysis and a composite sample was

collected to characterize the material. Based upon the soil sampling results, the material is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

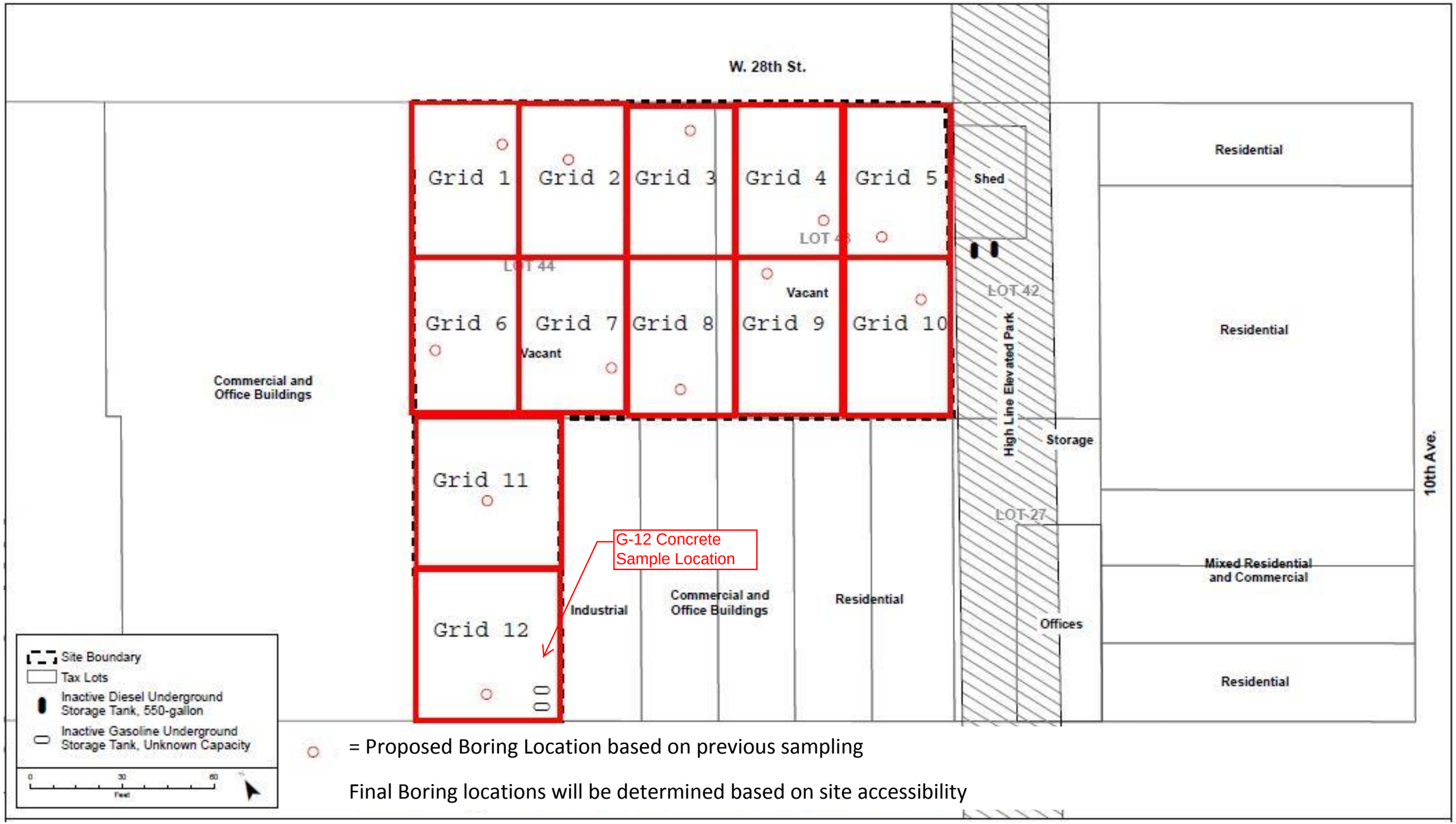
The following non-analytical limitations will apply:

Permit #	TYPES OF ACCEPTABLE MATERIAL	PHOTO-IONIZATION DETECTOR LIMIT (PPM)	MATERIAL SIZE LIMITATION	MOISTURE CONTENT LIMITATION	TREATED & UNTREATED WOOD LIMITATION	SLAG/ASH/ CINDER LIMITATION	TYPES OF UNACCEPTABLE MATERIAL
SRPPI# 015008	Soil and construction fill material meeting facility's criteria	1,000 ppm	12"	NO FREE-STANDING LIQUID	<1%	<3%	MSW, SLUDGE, DELETERIOUS DEBRIS, HAZARDOUS WASTE

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

Site Location

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



= Proposed Boring Location based on previous sampling

Final Boring locations will be determined based on site accessibility

5. Soil Analysis Summary Table

Concrete Analysis

Location: 514-520 W 28th St, Manhattan, NY

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	NJ NRDCSRS	Morris - Blanchard Acceptance Criteria	G-12 Concrete	MDL
	Sample ID	Depth					
	Date						
	Unit		*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
630-20-6	1,1,1,2-Tetrachloroethane	VOC	NA	NA	NA	ND	1.1
71-55-6	1,1,1-Trichloroethane	VOC	290,000	4,200,000	4,200,000	ND	1.1
79-34-5	1,1,2,2-Tetrachloroethane	VOC	1,000	3,000	3,000	ND	0.81
79-00-5	1,1,2-Trichloroethane	VOC	2,000	6,000	6,000	ND	0.56
92-52-4	1-1- Biphenyl	SVOC	3,100,000	34,000,000	34,000,000	ND	120
75-34-3	1,1-Dichloroethane	VOC	8,000	24,000	24,000	ND	1.1
75-35-4	1,1-Dichloroethene	VOC	11,000	150,000	150,000	ND	1.2
96-12-8	1,2-Dibromo-3-Chloropropane	VOC	80	200	200	ND	1.5
106-93-4	1,2-Dibromoethane	VOC	8	40	40	ND	1.5
95-50-1	1,2-Dichlorobenzene	VOC	5,300,000	NA	NA	ND	0.63
107-06-2	1,2-Dichloroethane	VOC	900	3,000	3,000	ND	0.5
78-87-5	1,2-Dichloropropane	VOC	2,000	5,000	5,000	ND	0.81
541-73-1	1,3-Dichlorobenzene	VOC	5,300,000	59,000,000	59,000,000	ND	0.84
106-46-7	1,4-Dichlorobenzene	VOC	5,000	13,000	13,000	ND	0.9
123-91-1	1,4-Dioxane	VOC	NA	NA	NA	ND	100
78-93-3	2-Butanone	VOC	3,100,000	44,000,000	44,000,000	ND	4.9
108-10-1	4-Methyl-2-Pentanone	VOC	NA	NA	NA	ND	1.4
67-64-1	Acetone	VOC	70,000,000	NA	NA	ND	5.6
107-02-8	Acrolein	VOC	500	1000	1,000	ND	4.5
107-13-1	Acrylonitrile	VOC	900	3,000	3,000	ND	3.2
71-43-2	Benzene	VOC	2,000	5,000	5,000	ND	1.1
74-97-5	Bromochloromethane	VOC	NA	NA	NA	ND	0.83
75-27-4	Bromodichloromethane	VOC	1,000	3,000	3,000	ND	0.7
75-25-2	Bromoform	VOC	81,000	280,000	280,000	ND	0.8
74-83-9	Bromomethane	VOC	25,000	59,000	59,000	ND	4.4
75-15-0	Carbon Disulfide	VOC	7,800,000	110,000,000	110,000,000	ND	0.92
56-23-5	Carbon Tetrachloride	VOC	600	2000	2,000	ND	0.66
108-90-7	Chlorobenzene	VOC	510,000	7,400,000	7,400,000	ND	0.84
124-48-1	Chlorodibromomethane	VOC	3,000	8,000	8,000	ND	0.64
75-00-3	Chloroethane	VOC	220,000	1,100,000	1,100,000	ND	1.3
67-66-3	Chloroform	VOC	600	2000	2000	ND	1
74-87-3	Chloromethane	VOC	4,000	12,000	12,000	ND	3
156-59-2	cis-1,2-Dichloroethene	VOC	230,000	560,000	560,000	ND	1.2
75-71-8	Dichlorodifluoromethane	VOC	490,000	230,000,000	230,000,000	ND	1.5
100-41-4	Ethylbenzene	VOC	7,800,000	110,000,000	110,000,000	ND	1
98-82-8	Isopropylbenzene	VOC	NA	NA	NA	ND	1.1
75-09-2	Methylene Chloride	VOC	34,000	97,000	97,000	ND	0.93
1634-04-4	Methyl Tert-Butyl Ether	VOC	110,000	320,000	320,000	ND	1.6
91-20-3	Naphthalene	SVOC	6,000	17,000	17,000	ND	110
100-42-5	Styrene	VOC	90,000	260,000	260,000	ND	1.6
75-65-0	Tertiary Butyl Alcohol	VOC	1,400,000	11,000,000	11,000,000	ND	110
127-18-4	Tetrachloroethene	VOC	2,000	5,000	5,000	ND	1.2
108-88-3	Toluene	VOC	6,300,000	91,000,000	91,000,000	ND	0.9
1330-20-7	Total Xylenes	VOC	12,000,000	170,000,000	170,000,000	ND	5.7
156-60-5	trans-1,2-Dichloroethene	VOC	300,000	720,000	720,000	ND	1.1
79-01-6	Trichloroethene	VOC	7,000	20,000	20,000	ND	1.2
75-69-4	Trichlorofluoromethane	VOC	23,000,000	340,000,000	340,000,000	ND	1.3
108-05-4	Vinyl Acetate	VOC	NA	NA	NA	ND	57
75-01-4	Vinyl Chloride	VOC	700	2,000	2000	ND	1.8
87-68-3	Hexachlorobutadiene	SVOC	6,000	25,000	25,000	ND	140
122-66-7	1,2- Diphenylhydrazine	SVOC	700	2,000	2,000	ND	260
120-82-1	1,2,4-Trichlorobenzene	VOC	73,000	820,000	820,000	ND	0.67
95-94-3	1,2,4,5-Tetrachlorobenzene	SVOC	NA	NA	NA	ND	130
58-90-2	2,3,4,6-Tetrachlorophenol	SVOC	NA	NA	NA	ND	180
95-95-4	2,4,5-Trichlorophenol	SVOC	6,100,000	68,000,000	68,000,000	ND	210
88-06-2	2,4,6-Trichlorophenol	SVOC	19,000	74,000	74,000	ND	120
102-83-2	2,4-Dichlorophenol	SVOC	NA	2100000	2,100,000	ND	130
105-67-9	2,4-Dimethylphenol	SVOC	1,200,000	14,000,000	14,000,000	ND	94
51-28-5	2,4-Dinitrophenol	SVOC	120,000	1,400,000	1,400,000	ND	260
121-14-2	2,4-Dinitrotoluene	SVOC	700	3,000	3,000	ND	150
606-20-2	2,6-Dinitrotoluene	SVOC	700	3,000	3,000	ND	120
91-58-7	2-Chloronaphthalene	SVOC	NA	NA	NA	ND	110
95-57-8	2-Chlorophenol	SVOC	310,000	2,200,000	2,200,000	ND	110
91-57-6	2-Methylnaphthalene	SVOC	230,000	2,400,000	2,400,000	ND	110
95-48-7	2-Methylphenol	SVOC	310,000	3,400,000	3,400,000	ND	180
88-74-4	2-Nitroaniline	SVOC	39,000	23,000,000	23,000,000	ND	380
88-75-5	2-Nitrophenol	SVOC	NA	NA	NA	ND	240
91-94-1	3,3-Dichlorobenzidine	SVOC	1,000	4,000	4,000	ND	150
99-09-2	3-Nitroaniline	SVOC	NA	NA	NA	ND	820

Concrete Analysis
Location: 514-520 W 28th St, Manhattan, NY

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	NJ NRDCSRS	Morris - Blanchard Acceptance Criteria	G-12 Concrete	MDL
	Sample ID	Depth					
	Date						
	Unit		*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
534-52-1	4,6-Dinitro-2-methylphenol	SVOC	6,000	68,000	68,000	ND	260
59-50-7	4-Chloro-3-methylphenol	SVOC	NA	NA	NA	ND	130
106-47-8	4-Chloroaniline	SVOC	NA	NA	NA	ND	180
100-01-6	4-Nitroaniline	SVOC	NA	NA	NA	ND	130
100-02-7	4-Nitrophenol	SVOC	NA	NA	NA	ND	170
83-32-9	Acenaphthene	SVOC	3,400,000	37,000,000	37,000,000	140 J	110
208-96-8	Acenaphthylene	SVOC	NA	300,000,000	300,000,000	110 J	110
98-86-2	Acetophenone	SVOC	2,000	5,000	5,000	ND	120
120-12-7	Anthracene	SVOC	17,000,000	30,000,000	30,000,000	570	120
1912-24-9	Atrazine	SVOC	210,000	2,400,000	2,400,000	ND	150
100-52-7	Benzaldehyde	SVOC	6,100,000	68,000,000	68,000,000	ND	110
56-55-3	Benzo-a-Anthracene	SVOC	600	2,000	4,000	1900	130
50-32-8	Benzo-a-Pyrene	SVOC	200	200	4,000	1700	120
205-99-2	Benzo-b-Fluoranthene	SVOC	600	2,000	4,000	2100	130
207-08-9	Benzo-k-Fluoranthene	SVOC	6,000	23,000	23,000	770	130
191-24-2	Benzo-g,h,i-Perylene	SVOC	380,000,000	30,000,000	30,000,000	1200	120
100-51-6	Benzyl Alcohol	SVOC	NA	NA	NA	ND	260
111-44-4	Bis(2-Chloroethyl)ether	SVOC	400	2,000	2,000	ND	100
108-60-1	Bis(2-Chloroisopropyl)ether	SVOC	23,000	67,000	67,000	ND	100
117-81-7	Bis(2-Ethylhexyl)Phthalate	SVOC	35,000	140,000	140,000	ND	110
85-68-7	Butylbenzylphthalate	SVOC	1,200,000	14,000,000	14,000,000	ND	97
105-60-2	Caprolactam	SVOC	31,000,000	340,000,000	340,000,000	ND	260
86-74-8	Carbazole	SVOC	24,000	96,000	96,000	ND	290
218-01-9	Chrysene	SVOC	62,000	230,000	230,000	1800	130
75-99-0	Dalapon	SVOC	NA	NA	NA	ND	47
132-64-9	Dibenzofuran	SVOC	NA	NA	NA	ND	110
53-70-3	Dibenzo-a,h-Anthracene	SVOC	200	200	4,000	ND	120
84-66-2	Diethyl Phthalate	SVOC	49,000,000	550,000,000	550,000,000	ND	120
131-11-3	Dimethyl Phthalate	SVOC	NA	NA	NA	ND	120
84-74-2	Di-n-Butyl Phthalate	SVOC	6,100,000	68,000,000	68,000,000	ND	100
117-84-0	Di-n-Octyl Phthalate	SVOC	2,400,000	27,000,000	27,000,000	ND	97
206-44-0	Fluoranthene	SVOC	2,300,000	24,000,000	24,000,000	5200	120
86-73-7	Fluorene	SVOC	2,300,000	24,000,000	24,000,000	130 J	120
118-74-1	Hexachlorobenzene	SVOC	300	1,000	1,000	ND	110
77-47-4	Hexachlorocyclopentadiene	SVOC	45,000	110,000	110,000	ND	120
67-72-1	Hexachloroethane	SVOC	35,000	140,000	140,000	ND	110
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	600	2,000	4,000	980	130
78-59-1	Isophorone	SVOC	510,000	2,000,000	2,000,000	ND	110
98-95-3	Nitrobenzene	SVOC	31,000	340,000	340,000	ND	130
62-75-9	N-Nitrosodimethylamine	SVOC	700	700	700	ND	110
621-64-7	N-Nitroso-di-n-Propylamine	SVOC	200	300	300	ND	120
86-30-6	N-Nitrosodiphenylamine	SVOC	99,000	390,000	390,000	ND	140
87-86-5	Pentachlorophenol	SVOC	3,000	10,000	10,000	ND	140
85-01-8	Phenanthrene	SVOC	NA	300,000,000	300,000,000	2000	110
108-95-2	Phenol	SVOC	18000000	210000000	210,000,000	ND	120
129-00-0	Pyrene	SVOC	1,700,000	18,000,000	18,000,000	5100	130
93-76-5	2,4,5-T	HERBICIDE	NA	NA	NA	ND	47
93-72-1	2,4,5-TP Acid	PESTICIDE	NA	NA	NA	ND	47
94-75-7	2,4-D	HERBICIDE	NA	NA	NA	ND	47
72-54-8	4,4-DDD	PESTICIDE	3,000	13,000	13,000	ND	2.3
72-55-9	4,4-DDE	PESTICIDE	2,000	9,000	9,000	ND	2.3
50-29-3	4,4-DDT	PESTICIDE	2,000	8,000	8,000	ND	8.3
309-00-2	Aldrin	PESTICIDE	40	200	200	ND	1.1
319-84-6	alpha-BHC	PESTICIDE	100	500	500	ND	3.6
5103-71-9	Alpha Chlordane	PESTICIDE	NA	NA	NA	ND	5
12674-11-2	Aroclor 1016	PCB	NA	NA	NA	ND	76
1104-28-2	Aroclor 1221	PCB	NA	NA	NA	ND	76
11141-16-5	Aroclor 1232	PCB	NA	NA	NA	ND	76
53469-21-9	Aroclor 1242	PCB	NA	NA	NA	ND	76
12672-29-6	Aroclor 1248	PCB	NA	NA	NA	ND	76
11097-69-1	Aroclor 1254	PCB	NA	NA	NA	ND	76
11096-82-5	Aroclor 1260	PCB	NA	NA	NA	ND	76
11096-82-5	Aroclor 1262	PCB	NA	NA	NA	ND	76
37324-23-5	Aroclor 1268	PCB	NA	NA	NA	ND	76
319-85-7	beta-BHC	PESTICIDE	400	2000	2,000	ND	3.6
57-74-9	Chlordane	PESTICIDE	200	1000	1,000	ND	11
319-86-8	delta-BHC	PESTICIDE	NA	NA	NA	ND	3.6
1918-00-9	Dicamba	HERBICIDE	NA	NA	NA	ND	94

Concrete Analysis

Location: 514-520 W 28th St, Manhattan, NY

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	NJ NRDCSRS	Morris - Blanchard Acceptance Criteria	G-12 Concrete	MDL
	Sample ID	Depth					
	Date						
	Unit		*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
60-57-1	Dieldrin	PESTICIDE	40	200	200	ND	1.1
115-29-7	Endosulfan	PESTICIDE	470,000	6,800,000	6,800,000	ND	
959-98-8	Endosulfan I	PESTICIDE	NA	NA	NA	ND	3.6
33213-65-9	Endosulfan II	PESTICIDE	NA	NA	NA	ND	7.2
1031-07-8	Endosulfan Sulfate	PESTICIDE	470,000	6,800,000	6,800,000	ND	7.2
72-20-8	Endrin	PESTICIDE	23,000	340,000	340,000	ND	7.2
58-89-9	gamma-BHC	PESTICIDE	400	2000	2,000	ND	1.1
76-44-8	Heptachlor	PESTICIDE	100	700	700	ND	2.3
1024-57-3	Heptachlor Epoxide	PESTICIDE	70	300	300	ND	3.6
72-43-5	Methoxychlor	PESTICIDE	390,000	5,700,000	5,700,000	ND	36
56-38-2	Parathion	PESTICIDE	NA	NA	NA	ND	260
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	200	1000	1,000	ND	
8001-35-2	Toxaphene	PESTICIDE	600	3000	3,000	ND	190
	Unit		*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
7429-90-5	Aluminum, Al	METAL	78,000	NA	NA	6680	6.8
7440-36-0	Antimony, Sb	METAL	31	450	450	< 6.0	6
7440-38-2	Arsenic, As	METAL	19	19*	19.00	5.7	0.68
7440-39-3	Barium, Ba	METAL	16,000	59,000	59,000	601	0.14
7440-41-7	Beryllium, Be	METAL	16	140	140	0.33	0.14
7440-43-9	Cadmium, Cd	METAL	78	78	78	7	0.14
7440-47-3	Chromium, Cr	METAL	NA	NA	NA	41.1	0.14
18540-29-9	Chromium, hexavalent	METAL	240; ACD	20	240	3	0.44
16065-83-1	Chromium, trivalent	METAL	120,000	NA	NA	38.1	0.14
7440-48-4	Cobalt, Co	METAL	NA	590	590	4.88	0.14
7440-50-8	Copper, Cu	METAL	NA	45000	45000	168	2.7
57-12-5	Cyanide	METAL	1,600	23,000	23,000	<.57	0.28
7439-89-6	Iron, Fe	METAL	NA	NA	NA	27900	34
7439-92-1	Lead, Pb	METAL	400	800	800	691	2
7439-96-5	Manganese, Mn	METAL	11,000	5,900	5,900	272	1.4
7439-97-6	Mercury, Hg	METAL	23	65	65.00	0.13	0.05
7440-02-0	Nickel, Ni	METAL	1,600	23,000	23,000	27.6	0.14
7782-49-2	Selenium, Se	METAL	390	5,700	5,700	< 1.4	1.1
7440-22-4	Silver, Ag	METAL	390	5,700	5,700	< 0.80	0.8
7440-28-0	Thallium, Ti	METAL	5	79	79	< 3.0	1.4
7440-62-2	Vanadium, V	METAL	78	1,100	1,100	24.2	0.14
7440-66-6	Zinc, Zn	METAL	23,000	110,000	110,000	1010	3.4

Notes: Shaded values indicate an exceedance of Morris-Blanchard Acceptance Criteria values.

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Fill Material Evaluation Memorandum –
28th Street Project
LSRP Donor Technical Memorandum Tracking No.:069

LSRP DONOR SITE EVALUATION TECHNICAL MEMORANDUM 069

Date: May 13, 2014

To: Tom Gallagher; Morris Companies
Keith Morris; Morris Companies
Randy Bonnell; Morris Companies

From: James Mack; LSRP; JPM LLC
LSRP of Record; Former Fairmount Chemical Site
LSRP License Number 576435

Re: Evaluation of Alternative Fill Material Testing Results for Suitability for Use at Blanchard Street Redevelopment Area located at Blanchard Street, Newark, New Jersey
28th Street Project
514 – 520 W 28th Street
New York, New York

This fill material donor site represents 18000 cubic yards. The proposed location for the fill material excavation was divided into 12 waste classification cells and soil sample sets (one set consists of a discrete sample for VOC analysis and a composite sample made up of five samples) were collected to characterize the material. A total of 42 discreet grab samples and 42 grid composite samples were collected. In addition to being divided into six waste classification grids, the material as also divided into four vertical layers corresponding to Layer A, B, C and D. Based upon the soil sampling results, the material from the following waste classification grids is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

- **Layer A: Waste Classification Cells - 1, 2, 6. 9, 10**
- **Layer B: Waste Classification Cells - 1 through 12**
- **Layer C: Waste Classification Cells - 1 through 12**
- **Layer D: Waste Classification Cells - 1 through 12**

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Fill Material Evaluation Memorandum –
28th Street Project
LSRP Donor Technical Memorandum Tracking No.:069

Introduction

This technical memorandum evaluates the suitability of fill material located at the 28th Street Project project for placement at the Blanchard Street Redevelopment Area. The Blanchard Street Redevelopment Area is located in an industrial portion of Newark New Jersey and is an area of brownfield redevelopment. The proposed redevelopment is a large warehouse (700,000 square feet). To allow for the construction of the warehouse, the site grades must be raised above the flood plain. This requires the importation of substantial amount of fill material. The fill material will initially be used to surcharge the property and ultimately will be placed under site wide engineering and institutional controls. Specifically, the properties currently within the Blanchard Street Redevelopment Area are

- Former Fairmount Chemical Site (Block 2438; Lot 74 and Block 5001; Lot 40)
- Newark Housing Site (Block 2438; Lot 85)
- Lennard Property (Block 5001; Lot 42 and Block 5001; Lot 46)

The NJDEP Site Remediation Program PI# for the Fairmount Chemical Site is 015008 and the ISRA Case Number is E20020444. The Fairmount Chemical site is in compliance with regulatory obligations associated with these NJDEP case tracking numbers. Additionally, an *Alternative Fill/Soil Management Plan, Blanchard Street Redevelopment Area, Newark, New Jersey; Revision 1.1; dated November 2013* has been developed for the Blanchard Street Redevelopment by the LSRP of Record for the Fairmount Street Site. This plan establishes the management criteria for imported fill material for Blanchard Street Redevelopment Area and is the basis for evaluation the suitability of the use of the fill at the Blanchard Street Redevelopment Area.

The proposed amount of material is 18000 cubic yards, which will be excavated from a lot in Manhattan, NY. For soil suitability analysis, the fill area was divided into twelve (12) waste classification cells horizontally and four (4) depth intervals. The total depth of excavation will be approximately 20 ft bgs. There were 42 discreet grab samples and 42 grid composite samples collected. In addition to the soil characterization, 1 concrete chip sample was collected. This

analysis is based upon a review of the Disposal Compliance Package (DCP) prepared by Impact Environmental Consulting Inc. dated May 7, 2014.

Based upon the soil sampling results, material from the following waste classification cells is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

- Layer A: Waste Classification Cells - 1, 2, 6. 9, 10
- Layer B: Waste Classification Cells - 1 through 12
- Layer C: Waste Classification Cells - 1 through 12
- Layer D: Waste Classification Cells - 1 through 12

Donor Site Information:

The donor site is located at 514-520 West 28th Street (Block 699, Lots 43 and 44), New York, NY. The Site is currently enrolled in the New York State Brownfield Cleanup Program (BCP) Site #C231082. The proposed volume of fill material is 18,000 cubic yards. The material will be generated from the interval from grade to approximately 20 feet bgs.

The Site covers an area of approximately 20,000-square feet on a P - shaped parcel located in the central portion of the block. The Site was previously and most recently occupied by a scrap yard (Lot 43) and separate car rental establishment (Lot 44). These businesses ceased operations in December 2012 prior to entrance in the BCP. The Site is not currently improved with any buildings. The majority of the surface is covered by a non-uniform, uneven layer of concrete that ranges in thickness from 12 to 48 inches. The remainder of the property contains both patches of asphalt paving and open soil cover.

The shallow subsurface at the Site consists of fill material underlain by sands, silts and glacial till. The fill has been identified from current and prior borings to consist of concrete, brick, cinders and other construction debris, silt, sand and gravel and is generally present from the surface to 10 ftbg. Native soils encountered during the performance of the RI consists primarily of coarse to medium sand, some silt and glacial till. The till included poorly sorted sand and gravel and is generally present below the fill to the bottom of the borings includes in the investigations (10-15 ftbg).

Environmental Investigations:

Available environmental information reviewed consisted of:

1. Field Sampling Summary Report, Impact Environmental Consulting, Inc., April 9, 2014
2. Draft Remedial Investigation Report, Intergral Engineering, June 26, 2013
3. Disposal Compliance Package; Impact Environmental, May 7, 2014

The site was divided into 12 sampling grids to support a probability sampling scheme. A portion of each composite sample from individual grids was combined with other grid composites based on location, depth of excavation and previous sampling results to create 6 Waste Characterization ("WC") grids. Each WC grid is approximately 3600 sq ft. Depth intervals were determined by elevation to ensure that the floor of each depth interval was flat across the site. Deeper intervals were consistent 6' layers. The top depth interval was labeled as depth A, and the lower intervals were labeled with corresponding letters. Each WC Grid Layer will have an approximate excavated volume of 960 CY. There were 42 discreet grab samples and 42 grid composite samples collected. In addition to the soil characterization, 1 concrete chip sample was collected.

The following conclusions are based on the results of the previous investigations:

- SVOCs found in the shallow soils onsite are consistent will those found in historic fill;

- Heavy metals present in Site soils could be the result of current and historic Site usage; metals could also be attributed to the presence of fill across the Site

A total of 42 soil samples were collected as part of the RI. Testing results indicated no VOCs, PAH impacts and metals. The results of the RI and previous investigations indicate SVOC and metal concentrations in Site soils consistent with historic fill and historic Site operations. The results do not indicate significant issues or releases from the former Site operations. No petroleum related impacts were found in soil samples collected from borings advanced in the vicinity of the onsite USTs.

Environmental Testing:

The fill area was divided into twelve (12) waste classification cells horizontally and four (4) depth intervals. The total depth of excavation will be approximately 20 ft bgs. There were 42 discreet grab samples and 42 grid composite samples collected. In addition to the soil characterization, 1 concrete chip sample was collected.

No VOC impacts that would prevent placement of the soil at BSRA. Layer A, the uppermost layer contained most of the concrete and historic fill material. Soil samples from this layer contained PAHs and metals (primarily lead) at concentrations that would prevent placement at BSRA. Thus for Layer A only material from WCs 1, 2, 6. 9, 10 is approved for BSRA. Material from the WCs in the other three layers is not impacted above acceptance criteria for BSRA.

Discussion with Regard to Acceptance of Fill Material for Placement at Blanchard Street Redevelopment Area

This fill material donor site represents 18000 cubic yards. The proposed location for the fill material excavation was divided into 12 waste classification cells and soil sample sets (one set consists of a discrete sample for VOC analysis and a composite sample made up of five samples) were collected to characterize the material. A total of 42 discreet grab samples and 42 grid composite samples were collected. In addition to being divided into six waste classification grids, the material as also divided into four vertical layers corresponding to Layer A, B, C and D. Based upon the soil sampling results, the material from the following waste classification grids is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

- Layer A: Waste Classification Cells - 1, 2, 6. 9, 10
- Layer B: Waste Classification Cells - 1 through 12
- Layer C: Waste Classification Cells - 1 through 12
- Layer D: Waste Classification Cells - 1 through 12

The following non-analytical limitations will apply:

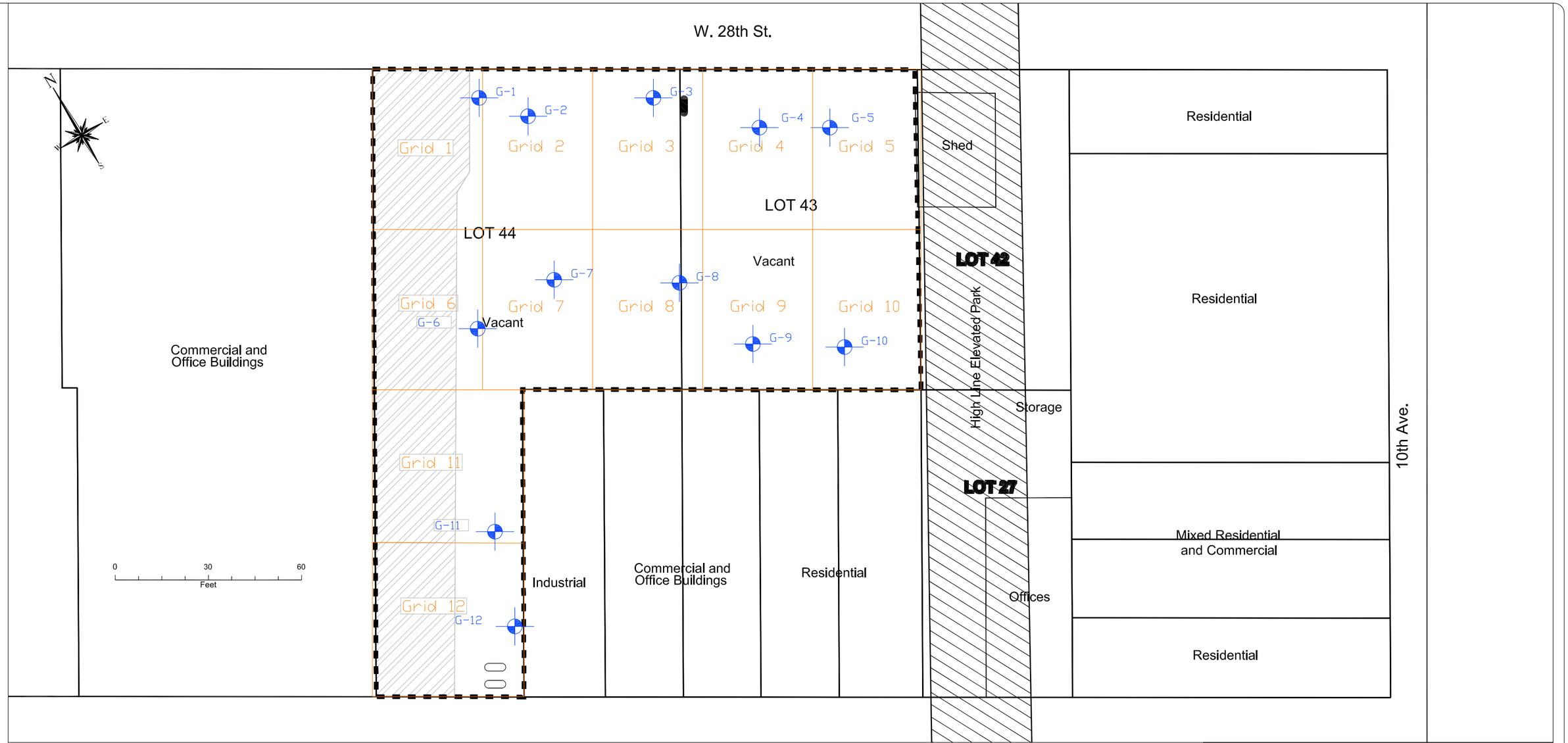
Permit #	TYPES OF ACCEPTABLE MATERIAL	PHOTO-IONIZATION DETECTOR LIMIT (PPM)	MATERIAL SIZE LIMITATION	MOISTURE CONTENT LIMITATION	TREATED & UNTREATED WOOD LIMITATION	SLAG/ASH/ CINDER LIMITATION	TYPES OF UNACCEPTABLE MATERIAL
SRP PI# 015 008	Soil and construction fill material meeting facility's criteria	1,000 ppm	12"	NO FREE-STANDING LIQUID	<1%	<3%	MSW, SLUDGE, DELETERIOUS DEBRIS, HAZARDOUS WASTE

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

Site Location

Volume I

5. Boring Location Map and Proposed Disposal Plan



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

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170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
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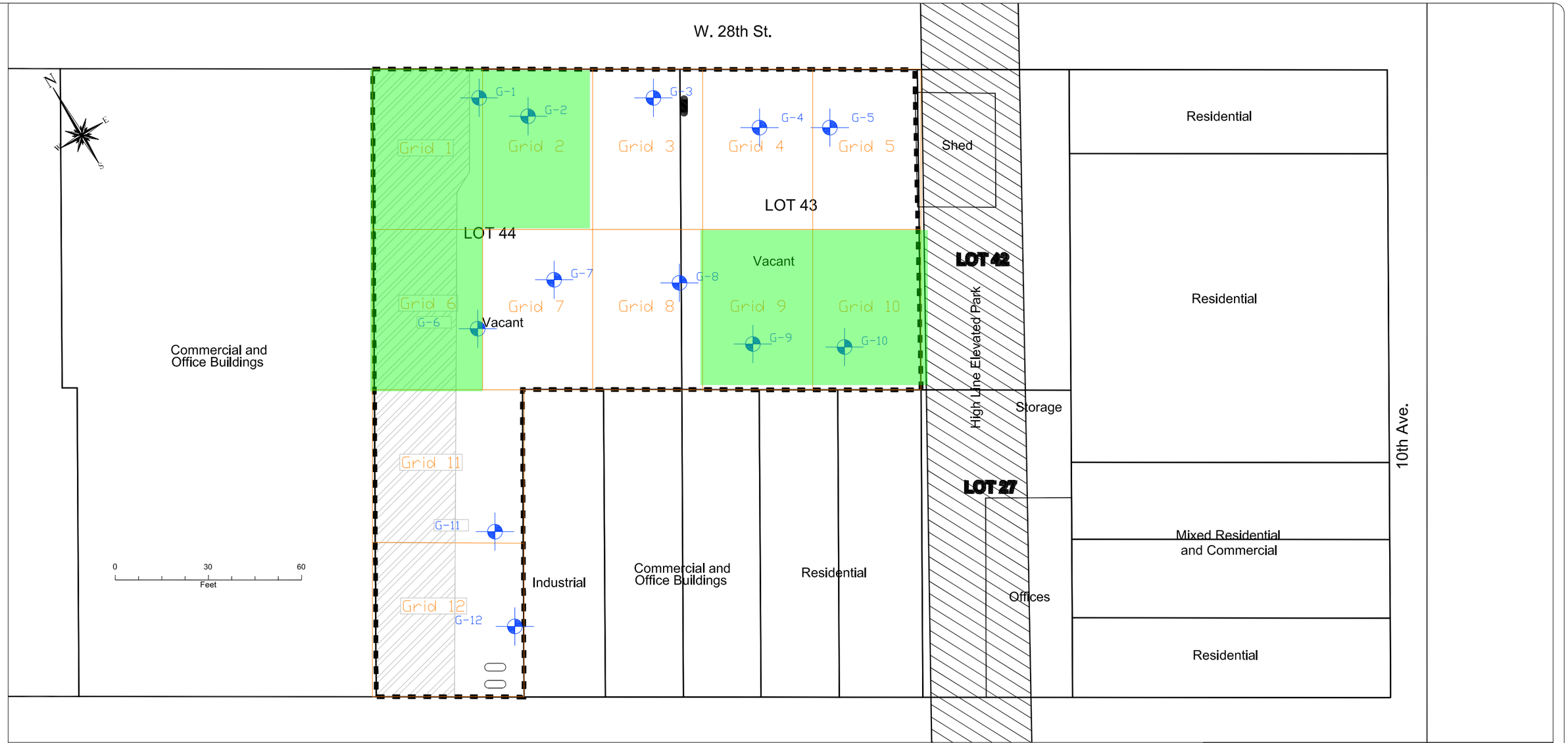
Table 1: Grid Combinations and Layer Elevations

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 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

Layer A



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

= Material Proposed for BSRA

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
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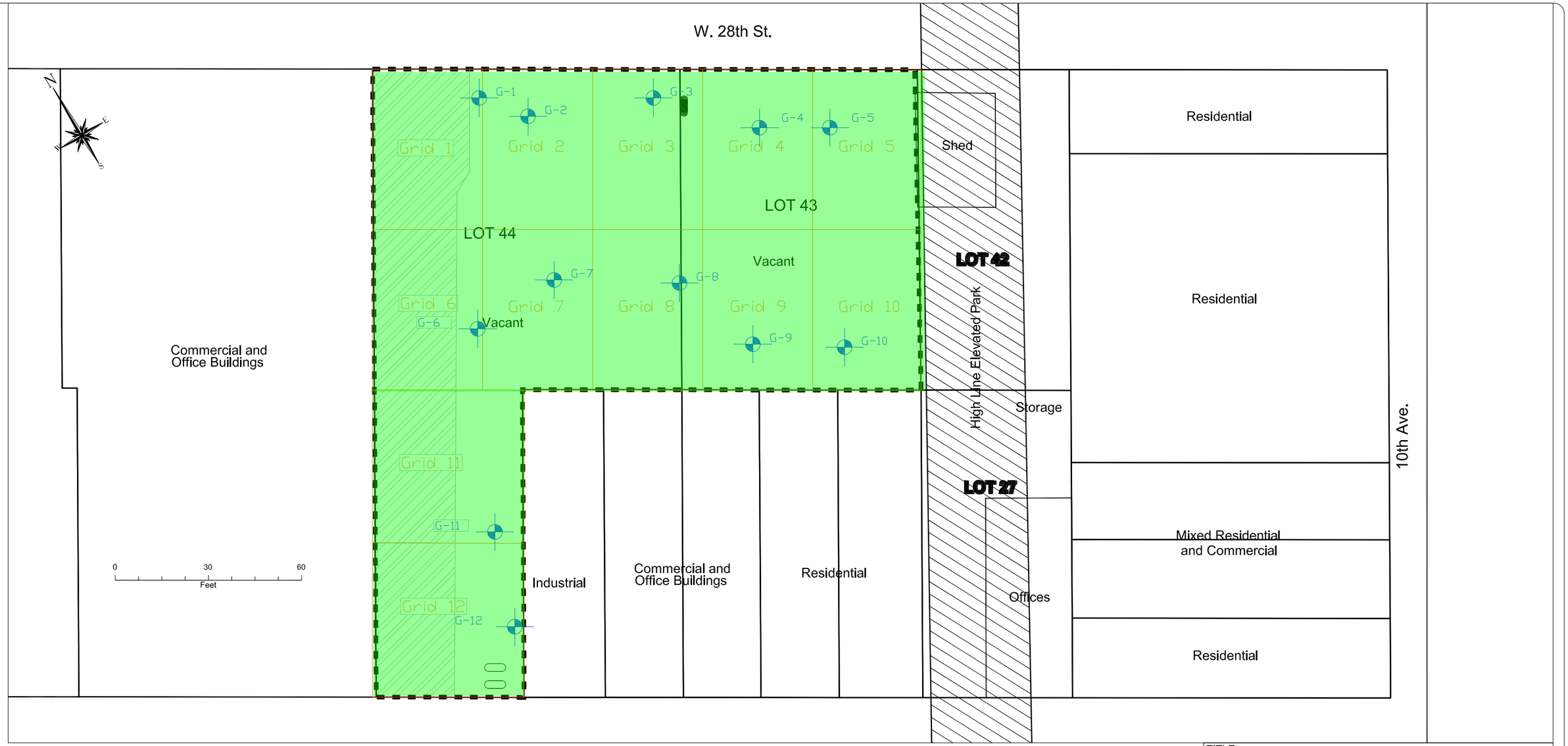
Layer B



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

= Material Proposed for BSRA

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

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DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

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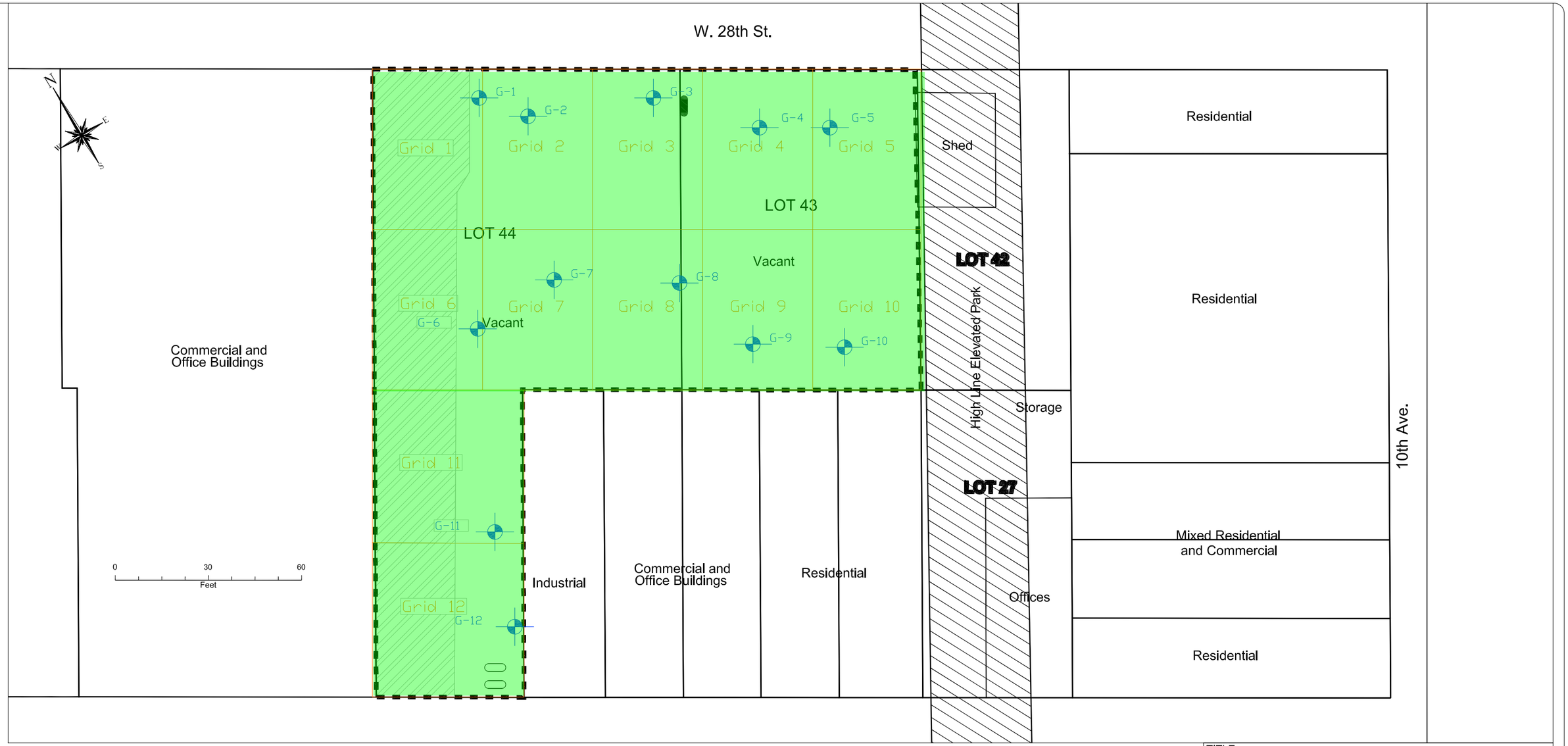
Layer C



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

= Material Proposed for BSRA

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

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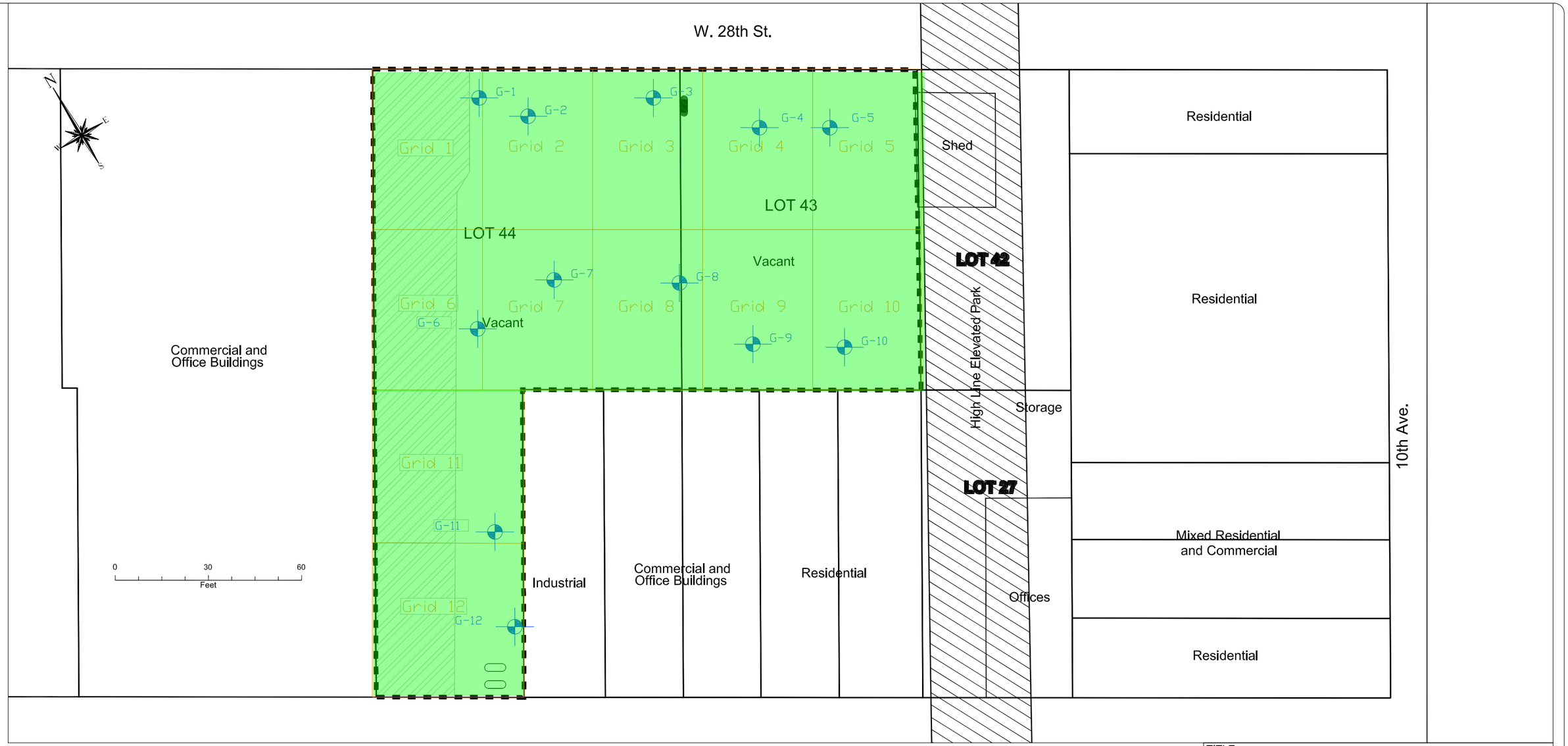
Layer D



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

= Material Proposed for BSRA

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

IMPACT ENVIRONMENTAL
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BOHEMIA, NEW YORK 11716
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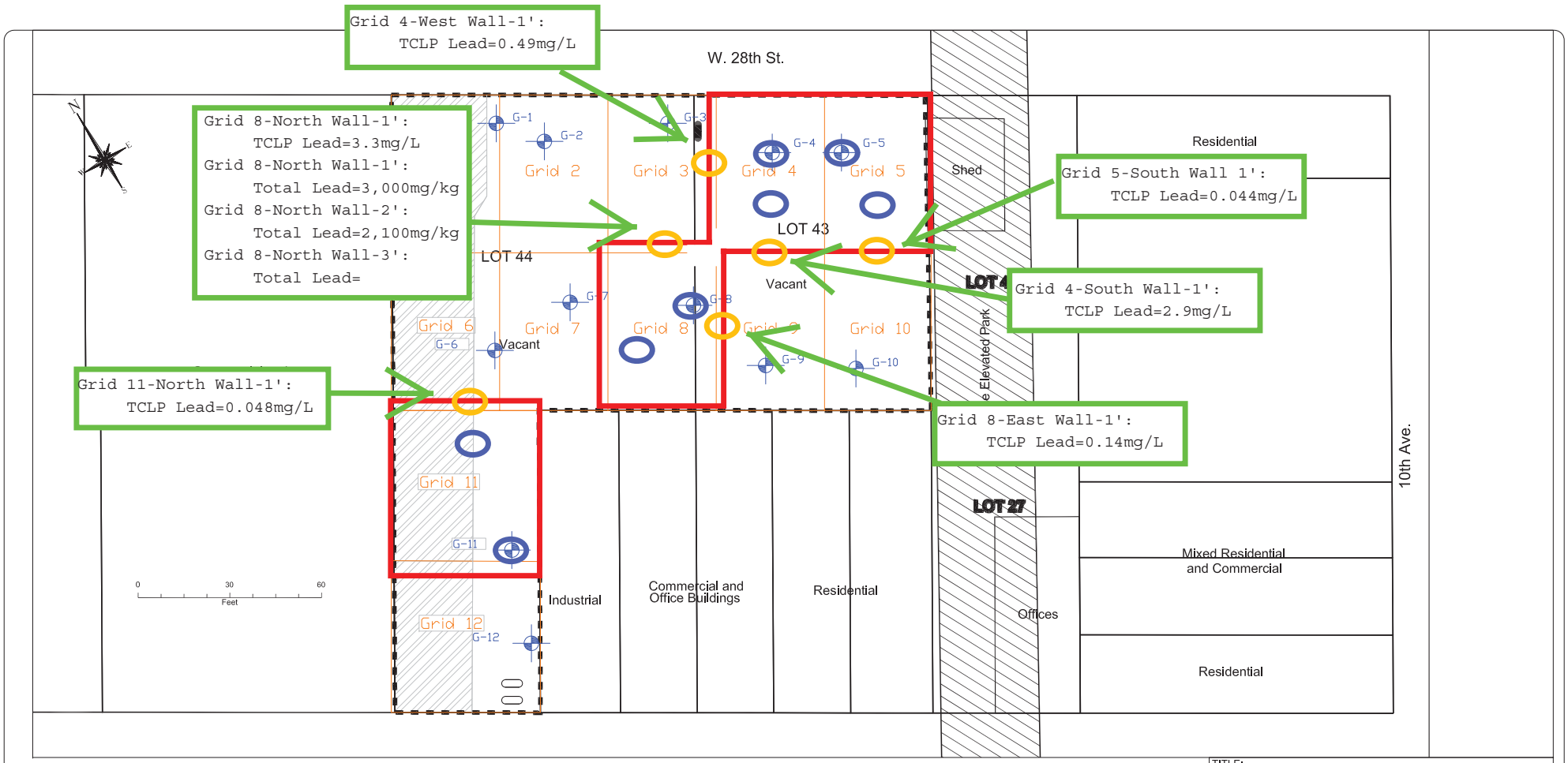
Volume I

6. Hazardous Material Delineation Map and Results



Legend

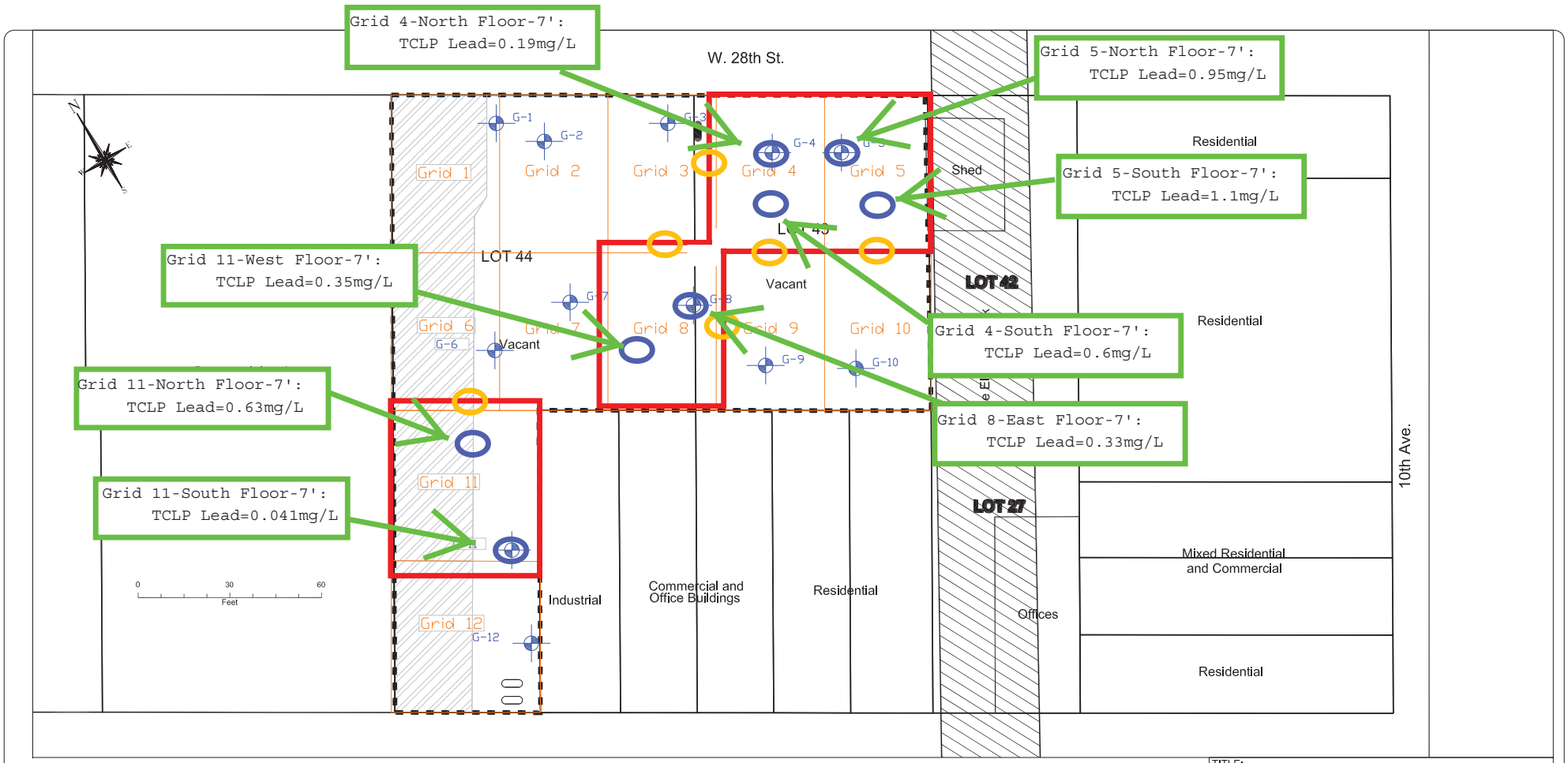
- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.
- Sidewall Sample Location
- Bottom Sample Location

TITLE: Endpoint Sampling Summary Map (Sidewalls)

514-520 West 28th Street, New York, NY

Date: 4/29/2014

Environmental Waste Minimization, Inc.
EWMI



Legend

- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.
- Sidewall Sample Location
- Bottom Sample Location

TITLE: Endpoint Sampling Summary Map (Bottoms)

514-520 West 28th Street, New York, NY

Date: 4/29/2014

Environmental Waste Minimization, Inc.
EWMI

James P. Mack LLC
Licensed Site Remediation Professional
25 Starview Drive
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908 448 6566
jamespmack@jpm-llc.com
Fill Material Evaluation Memorandum –
28th Street Project – 150 cubic yards stockpile
LSRP Donor Technical Memorandum Tracking No.:054

LSRP DONOR SITE EVALUATION TECHNICAL MEMORANDUM 054

Date: April 7, 2014

To: Tom Gallagher; Morris Companies
Keith Morris; Morris Companies
Randy Bonnell; Morris Companies

From: James Mack; LSRP; JPM LLC
LSRP of Record; Former Fairmount Chemical Site
LSRP License Number 576435

Re: Evaluation of Alternative Fill Material Testing Results for Suitability for Use at Blanchard Street Redevelopment Area located at Blanchard Street, Newark, New Jersey
28th Street Project – 150 cubic yard stockpile
514-520 W 28th St, New York, New York

This fill material donor site represents 150 cubic yards. This material is currently in a stockpile. The material was generated from trenching activities. This material has been characterized by three (3) TCLP Metals samples (one for TCLP lead only), two (2) discreet VOC samples, and 1 composite analyzed for SVOCS, Pesticides, Herbicides, PCBs, and Metals. Based upon the soil sampling results, the material is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

Introduction

This technical memorandum evaluates the suitability of fill material located at the 514-520 W 28th Street project for placement at the Blanchard Street Redevelopment Area. The Blanchard Street Redevelopment Area is located in an industrial portion of Newark New Jersey and is an area of brownfield redevelopment. The proposed redevelopment is a large warehouse (700,000 square feet). To allow for the construction of the warehouse, the site grades must be raised above the flood plain. This requires the importation of substantial amount of fill material. The fill

material will initially be used to surcharge the property and ultimately will be placed under site wide engineering and institutional controls. Specifically, the properties currently within the Blanchard Street Redevelopment Area are

- Former Fairmount Chemical Site (Block 2438; Lot 74 and Block 5001; Lot 40)
- Newark Housing Site (Block 2438; Lot 85)
- Lennard Property (Block 5001; Lot 42 and Block 5001; Lot 46)

The NJDEP Site Remediation Program PI# for the Fairmount Chemical Site is 015008 and the ISRA Case Number is E20020444. The Fairmount Chemical site is in compliance with regulatory obligations associated with these NJDEP case tracking numbers. Additionally, an *Alternative Fill/Soil Management Plan, Blanchard Street Redevelopment Area, Newark, New Jersey; Revision 1.1; dated November 2013* has been developed for the Blanchard Street Redevelopment by the LSRP of Record for the Fairmount Street Site. This plan establishes the management criteria for imported fill material for Blanchard Street Redevelopment Area and is the basis for evaluation the suitability of the use of the fill at the Blanchard Street Redevelopment Area. The 2008 RAWP identified one location where Cr+6 concentrations in soil were above the 240 ppm site specific soil remediation standard and required removal. That location is shown on the attached figure. Fill material should not be placed in this location until after the hexavalent chromium impacted soil has been removed.

The proposed amount of material is 150 cubic yard stockpile. The material was generated from trenching activities on the property. This material has been characterized by three (3) TCLP Metals samples (one for TCLP lead only), two (2) discreet VOC samples, and 1 composite analyzed for SVOCS, Pesticides, Herbicides, PCBs, and Metals. This analysis is based upon a review of the Disposal Compliance Package (DCP) prepared by Impact Environmental Consulting Inc. dated April 4, 2014.

Based upon the soil sampling results, the material is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

James P. Mack LLC
Licensed Site Remediation Professional
25 Starview Drive
Hillsborough, New Jersey 08844
908 448 6566
jamespmack@jpm-llc.com

Donor Site Information:

The donor site is located at 514 – 520 W 28th Street, New York, New York. The proposed amount of material is 150 cubic yards of fill material generated from trenching activities. The site is enrolled in the New York State Brownfield Cleanup Program (BCP) Site #C231082.

Environmental Investigations:

This material has been characterized by three (3) TCLP Metals samples (one for TCLP lead only), two (2) discreet VOC samples, and one (1) composite analyzed for SVOCS, Pesticides, Herbicides, PCBs, and Metals.

Environmental Testing:

Review of the testing data indicates that no VOCs were detected in the two (2) grab samples. The two grab samples tested for TCLP metals did not fail any RCRA criteria for hazardous waste regulatory limits as well as the composite Grid 9&10 SP which as tested for TCLP lead only. The composite sample WC-5A did not contain any PAHs, pesticides, herbicides or metals at concentrations that would prevent placement at BSRA.

Discussion with Regard to Acceptance of Fill Material for Placement at Blanchard Street Redevelopment Area

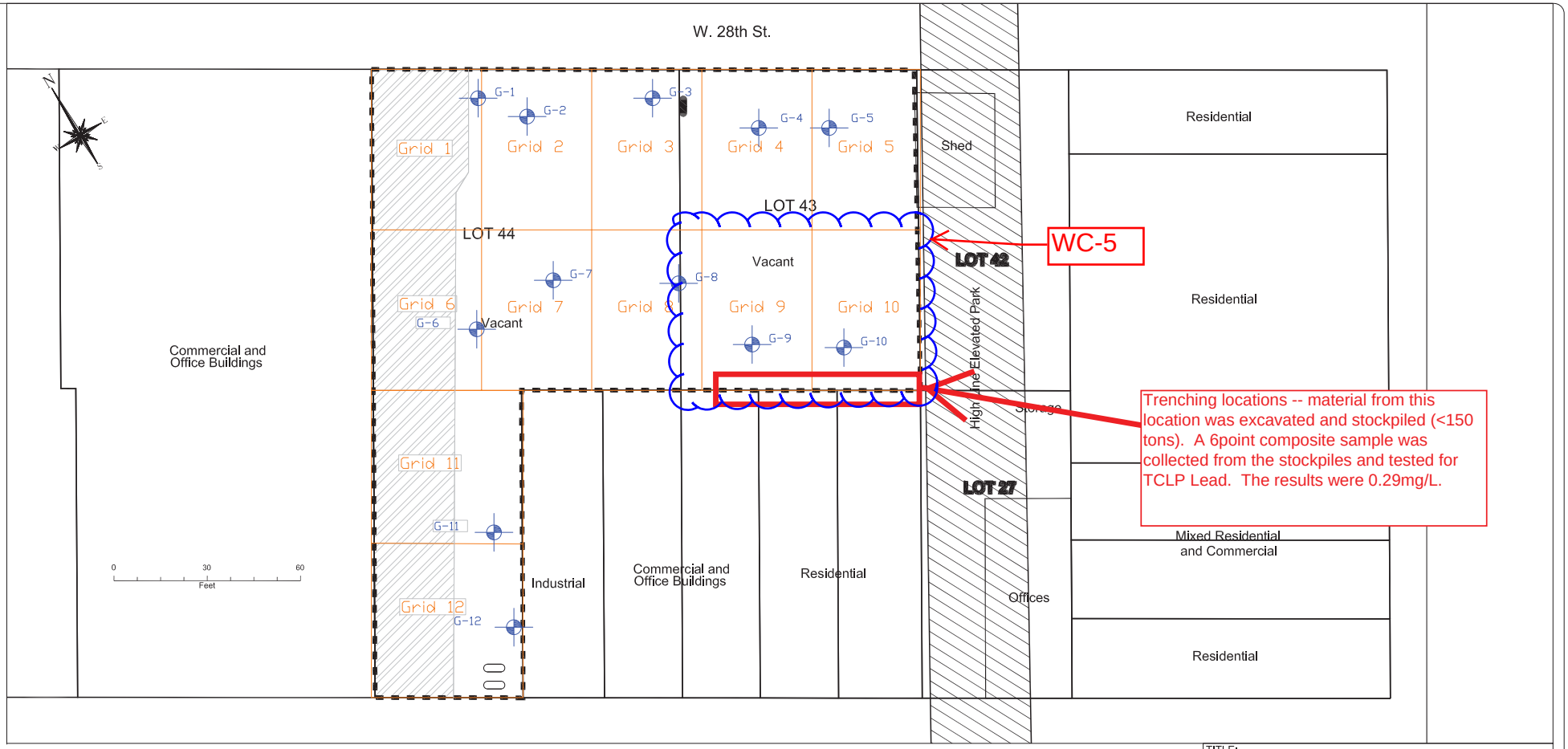
This fill material donor site represents 150 cubic yards. This material is currently in a stockpile. The material was generated from trenching activities. This material has been characterized by three (3) TCLP Metals samples (one for TCLP lead only), two (2) discreet VOC samples, and 1 composite analyzed for SVOCS, Pesticides, Herbicides, PCBs, and Metals. Based upon the soil sampling results, the material is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

The following non-analytical limitations will apply:

Permit #	TYPES OF ACCEPTABLE MATERIAL	PHOTO-IONIZATION DETECTOR LIMIT (PPM)	MATERIAL SIZE LIMITATION	MOISTURE CONTENT LIMITATION	TREATED & UNTREATED WOOD LIMITATION	SLAG/ASH/ CINDER LIMITATION	TYPES OF UNACCEPTABLE MATERIAL
SRP PI# 015 008	Soil and construction fill material meeting facility's criteria	1,000 ppm	12"	NO FREE-STANDING LIQUID	<1%	<3%	MSW, SLUDGE, DELETERIOUS DEBRIS, HAZARDOUS WASTE

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

Site Location



Legend

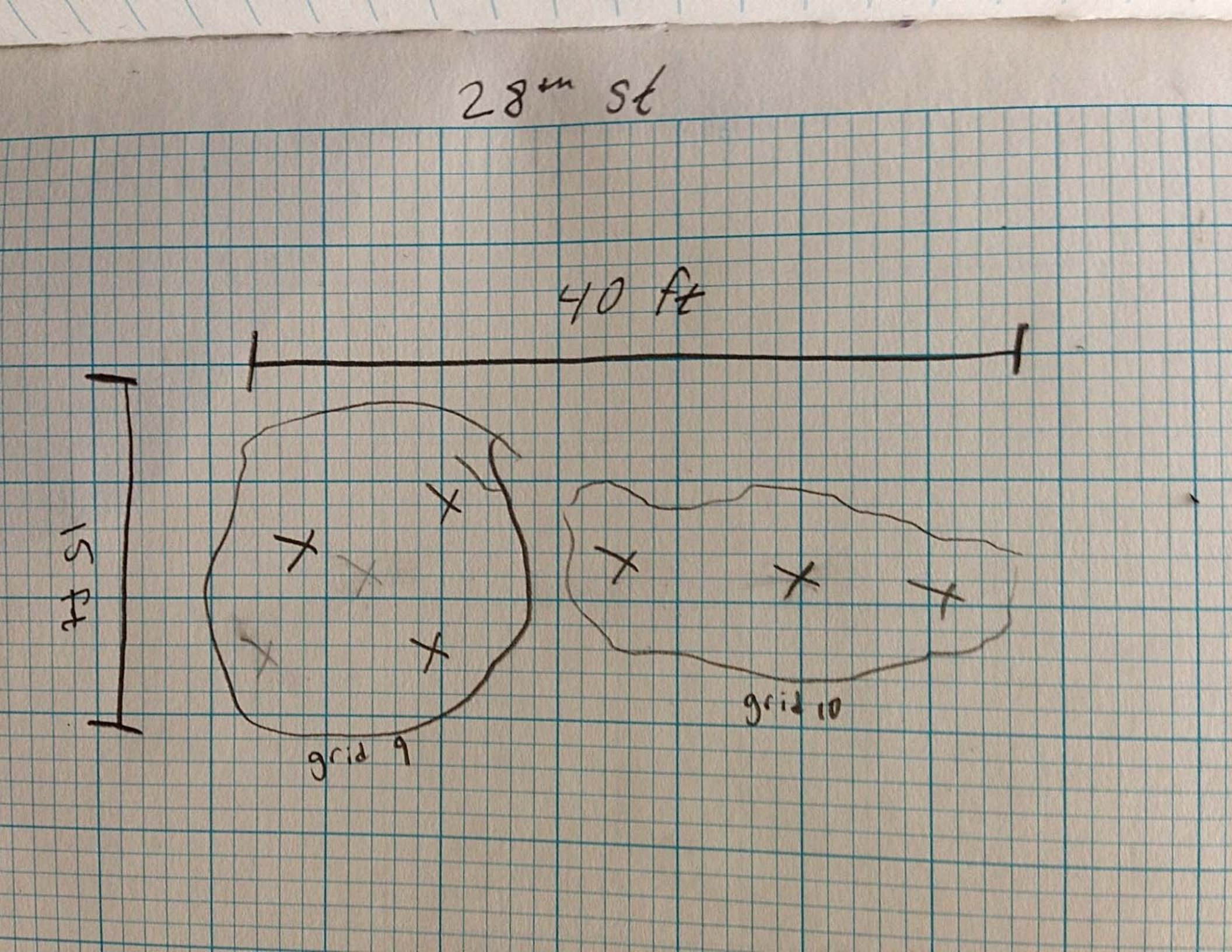
- Grid
- Area Not Accessible During Sampling
- Waste Characterization Soil Probe
- Site Boundary
- Tax Lot
- Potential Underground Storage Tank Identified During Utility Mark Out
- Inactive Gasoline Underground Storage Tank.

TITLE: Boring Location Map

514-520 West 28th Street, New York, NY

DRAWN BY:	DF	PROJECT #	6422
CHECKED BY:	DB		
DATE:	3/17/2014	PLATE #	01
SCALE:	1"= 30'		

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


28th st
40 ft
15 ft
grid 9
grid 10

5. Soil Analysis Summary Table

VOC Soil Analysis
Location: 514-520 W 28th St, Manhattan, NY

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	G-9A GRAB	G-10A GRAB
	Sample ID	Depth			
	Date				
	Unit		*ug/kg*	*ug/kg*	*ug/kg*
630-20-6	1,1,1,2-Tetrachloroethane	VOC	NA	< 5.2	< 4.4
71-55-6	1,1,1-Trichloroethane	VOC	290,000	< 5.2	< 4.4
79-34-5	1,1,2,2-Tetrachloroethane	VOC	1,000	< 5.2	< 4.4
79-00-5	1,1,2-Trichloroethane	VOC	2,000	< 5.2	< 4.4
75-34-3	1,1-Dichloroethane	VOC	8,000	< 5.2	< 4.4
75-35-4	1,1-Dichloroethene	VOC	11,000	< 5.2	< 4.4
96-12-8	1,2-Dibromo-3-Chloropropane	VOC	80	< 5.2	< 4.4
106-93-4	1,2-Dibromoethane	VOC	8	< 5.2	< 4.4
95-50-1	1,2-Dichlorobenzene	VOC	5,300,000	< 5.2	< 4.4
107-06-2	1,2-Dichloroethane	VOC	900	< 5.2	< 4.4
78-87-5	1,2-Dichloropropane	VOC	2,000	< 5.2	< 4.4
541-73-1	1,3-Dichlorobenzene	VOC	5,300,000	< 5.2	< 4.4
106-46-7	1,4-Dichlorobenzene	VOC	5,000	< 5.2	< 4.4
123-91-1	1,4-Dioxane	VOC	NA	< 100	< 88
78-93-3	2-Butanone	VOC	3,100,000	< 31	< 26
108-10-1	4-Methyl-2-Pentanone	VOC	NA	< 26	< 22
67-64-1	Acetone	VOC	70,000,000	< 50	< 44
107-02-8	Acrolein	VOC	500	< 26	< 22
107-13-1	Acrylonitrile	VOC	900	< 10	< 8.8
71-43-2	Benzene	VOC	2,000	< 5.2	< 4.4
74-97-5	Bromochloromethane	VOC	NA	< 5.2	< 4.4
75-27-4	Bromodichloromethane	VOC	1,000	< 5.2	< 4.4
75-25-2	Bromoform	VOC	81,000	< 5.2	< 4.4
74-83-9	Bromomethane	VOC	25,000	< 5.2	< 4.4
75-15-0	Carbon Disulfide	VOC	7,800,000	< 5.2	< 4.4
56-23-5	Carbon Tetrachloride	VOC	600	< 5.2	< 4.4
108-90-7	Chlorobenzene	VOC	510,000	< 5.2	< 4.4
124-48-1	Chlorodibromomethane	VOC	3,000	< 5.2	< 4.4
75-00-3	Chloroethane	VOC	220,000	< 5.2	< 4.4
67-66-3	Chloroform	VOC	600	< 5.2	< 4.4
74-87-3	Chloromethane	VOC	4,000	< 5.2	< 4.4
156-59-2	cis-1,2-Dichloroethene	VOC	230,000	< 5.2	< 4.4
75-71-8	Dichlorodifluoromethane	VOC	490,000	< 5.2	< 4.4
100-41-4	Ethylbenzene	VOC	7,800,000	< 5.2	< 4.4
98-82-8	Isopropylbenzene	VOC	NA	< 5.2	< 4.4
75-09-2	Methylene Chloride	VOC	34,000	1.5	< 4.4
1634-04-4	Methyl Tert-Butyl Ether	VOC	110,000	< 10	< 8.8
100-42-5	Styrene	VOC	90,000	< 5.2	< 4.4
75-65-0	Tertiary Butyl Alcohol	VOC	1,400,000	< 100	< 88
127-18-4	Tetrachloroethene	VOC	2,000	< 5.2	< 4.4
108-88-3	Toluene	VOC	6,300,000	< 5.2	< 4.4
1330-20-7	Total Xylenes	VOC	12,000,000	< 5.2	< 4.4
156-60-5	trans-1,2-Dichloroethene	VOC	300,000	< 5.2	< 4.4
79-01-6	Trichloroethene	VOC	7,000	< 5.2	< 4.4
75-69-4	Trichlorofluoromethane	VOC	23,000,000	< 5.2	< 4.4
108-05-4	Vinyl Acetate	VOC	NA	< 52	< 42
75-01-4	Vinyl Chloride	VOC	700	< 5.2	< 4.4
120-82-1	1,2,4-Trichlorobenzene	VOC	73,000	< 5.2	< 4.4

Notes: Shaded values indicate an exceedance of NYCRR 375 Residential, PA Clean Fill and NJ RDCSRS values.

TCLP Analysis: 514-520 W 28th St, New York, NY

Parameter Name	Parameter ID	TCLP Hazardous Waste Regulatory Levels	G-9A	G-10A	Composite-Grid 9&10 SP
Sample ID	Depth				
Unit		*mg/L*	*mg/L*	*mg/L*	*mg/L*
Arsenic, As	METAL	5	< 0.10	< 0.10	
Barium, Ba	METAL	100	0.75	0.66	
Cadmium, Cd	METAL	1	< 0.050	0.012	
Chromium, Cr	METAL	5	0.02	0.01	
Lead, Pb	METAL	5	< 0.10	0.03	0.29
Mercury, Hg	METAL	0.2	< 0.0002	< 0.0002	
Selenium, Se	METAL	1	< 0.10	< 0.10	
Silver, Ag	METAL	5	< 0.10	< 0.10	

Soil Analysis
Location: 514-520 W 28th St, Manhattan, NY

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	Morris - Blanchard Acceptance Criteria	WC-5A
	Sample ID	Depth			
	Date				
	Unit		*ug/kg*	*ug/kg*	*ug/kg*
92-52-4	1-1- Biphenyl	SVOC	3,100,000	34,000,000	< 260
91-20-3	Naphthalene	SVOC	6,000	17,000	< 260
87-68-3	Hexachlorobutadiene	SVOC	6,000	25,000	< 260
122-66-7	1,2- Diphenylhydrazine	SVOC	700	2,000	< 330
95-94-3	1,2,4,5-Tetrachlorobenzene	SVOC	NA	NA	< 260
58-90-2	2,3,4,6-Tetrachlorophenol	SVOC	NA	NA	< 260
95-95-4	2,4,5-Trichlorophenol	SVOC	6,100,000	68,000,000	< 260
88-06-2	2,4,6-Trichlorophenol	SVOC	19,000	74,000	< 150
102-83-2	2,4-Dichlorophenol	SVOC	NA	2,100,000	< 150
105-67-9	2,4-Dimethylphenol	SVOC	1,200,000	14,000,000	< 260
51-28-5	2,4-Dinitrophenol	SVOC	120,000	1,400,000	< 260
121-14-2	2,4-Dinitrotoluene	SVOC	700	3,000	< 150
606-20-2	2,6-Dinitrotoluene	SVOC	700	3,000	< 150
91-58-7	2-Chloronaphthalene	SVOC	NA	NA	< 260
95-57-8	2-Chlorophenol	SVOC	310,000	2,200,000	< 260
91-57-6	2-Methylnaphthalene	SVOC	230,000	2,400,000	< 260
95-48-7	2-Methylphenol	SVOC	310,000	3,400,000	< 260
88-74-4	2-Nitroaniline	SVOC	39,000	23,000,000	< 1800
88-75-5	2-Nitrophenol	SVOC	NA	NA	< 260
91-94-1	3,3-Dichlorobenzidine	SVOC	1,000	4,000	< 150
108-39-4	m-Cresol(s)	SVOC	NA	NA	< 260
99-09-2	3-Nitroaniline	SVOC	NA	NA	< 1800
534-52-1	4,6-Dinitro-2-methylphenol	SVOC	6,000	68,000	< 260
59-50-7	4-Chloro-3-methylphenol	SVOC	NA	NA	< 260
106-47-8	4-Chloroaniline	SVOC	NA	NA	< 740
106-44-5	4-Methylphenol	SVOC	31,000	340,000	< 260
100-01-6	4-Nitroaniline	SVOC	NA	NA	< 1800
100-02-7	4-Nitrophenol	SVOC	NA	NA	< 1800
83-32-9	Acenaphthene	SVOC	3,400,000	37,000,000	< 260
208-96-8	Acenaphthylene	SVOC	NA	300,000,000	< 150
98-86-2	Acetophenone	SVOC	2,000	5,000	< 260
120-12-7	Anthracene	SVOC	17,000,000	30,000,000	< 260
1912-24-9	Atrazine	SVOC	210,000	2,400,000	< 150
100-52-7	Benzaldehyde	SVOC	6,100,000	68,000,000	< 260
56-55-3	Benzo-a-Anthracene	SVOC	600	4,000	< 260
50-32-8	Benzo-a-Pyrene	SVOC	200	4,000	< 150
205-99-2	Benzo-b-Fluoranthene	SVOC	600	4,000	< 260
207-08-9	Benzo-k-Fluoranthene	SVOC	6,000	23,000	< 260
191-24-2	Benzo-g,h,i-Perylene	SVOC	380,000,000	30,000,000	< 260
100-51-6	Benzyl Alcohol	SVOC	NA	NA	< 330
111-44-4	Bis(2-Chloroethyl)ether	SVOC	400	2,000	< 150
108-60-1	Bis(2-Chloroisopropyl)ether	SVOC	23,000	67,000	< 260
117-81-7	Bis(2-Ethylhexyl)Phthalate	SVOC	35,000	140,000	< 260
85-68-7	Butylbenzylphthalate	SVOC	1,200,000	14,000,000	< 260
105-60-2	Caprolactam	SVOC	31,000,000	340,000,000	< 260
86-74-8	Carbazole	SVOC	24,000	96,000	< 1800
218-01-9	Chrysene	SVOC	62,000	230,000	< 260
75-99-0	Dalapon	SVOC	NA	NA	< 46
132-64-9	Dibenzofuran	SVOC	NA	NA	< 260
53-70-3	Dibenzo-a,h-Anthracene	SVOC	200	4,000	< 150
84-66-2	Diethyl Phthalate	SVOC	49,000,000	550,000,000	< 260
131-11-3	Dimethyl Phthalate	SVOC	NA	NA	< 260
84-74-2	Di-n-Butyl Phthalate	SVOC	6,100,000	68,000,000	< 260
117-84-0	Di-n-Octyl Phthalate	SVOC	2,400,000	27,000,000	< 260
206-44-0	Fluoranthene	SVOC	2,300,000	24,000,000	< 260
86-73-7	Fluorene	SVOC	2,300,000	24,000,000	< 260
118-74-1	Hexachlorobenzene	SVOC	300	1,000	< 150
77-47-4	Hexachlorocyclopentadiene	SVOC	45,000	110,000	< 260
67-72-1	Hexachloroethane	SVOC	35,000	140,000	< 150
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	600	4,000	< 260
78-59-1	Isophorone	SVOC	510,000	2,000,000	< 150
98-95-3	Nitrobenzene	SVOC	31,000	340,000	< 150
62-75-9	N-Nitrosodimethylamine	SVOC	700	700	< 260
621-64-7	N-Nitroso-di-n-Propylamine	SVOC	200	300	< 150
86-30-6	N-Nitrosodiphenylamine	SVOC	99,000	390,000	< 150
87-86-5	Pentachlorophenol	SVOC	3,000	10,000	< 260
85-01-8	Phenanthrene	SVOC	NA	300,000,000	< 150
108-95-2	Phenol	SVOC	18000000	210,000,000	< 260
129-00-0	Pyrene	SVOC	1,700,000	18,000,000	< 260

Soil Analysis
Location: 514-520 W 28th St, Manhattan, NY

CAS Number	Parameter Name	Parameter ID	NJ RDCSRS	Morris - Blanchard Acceptance Criteria	WC-5A
	Sample ID	Depth			
	Date				
	Unit		*ug/kg*	*ug/kg*	*ug/kg*
93-76-5	2,4,5-T	HERBICIDE	NA	NA	< 46
93-72-1	2,4,5-TP Acid	PESTICIDE	NA	NA	< 46
94-75-7	2,4-D	HERBICIDE	NA	NA	< 46
72-54-8	4,4-DDD	PESTICIDE	3,000	13,000	< 2.6
72-55-9	4,4-DDE	PESTICIDE	2,000	9,000	< 2.6
50-29-3	4,4-DDT	PESTICIDE	2,000	8,000	< 2.6
309-00-2	Aldrin	PESTICIDE	40	200	< 1.8
319-84-6	alpha-BHC	PESTICIDE	100	500	< 1.8
5103-71-9	Alpha Chlordane	PESTICIDE	NA	NA	< 3.6
12674-11-2	Aroclor 1016	PCB	NA	NA	< 36
1104-28-2	Aroclor 1221	PCB	NA	NA	< 36
11141-16-5	Aroclor 1232	PCB	NA	NA	< 36
53469-21-9	Aroclor 1242	PCB	NA	NA	< 36
12672-29-6	Aroclor 1248	PCB	NA	NA	< 36
11097-69-1	Aroclor 1254	PCB	NA	NA	< 36
11096-82-5	Aroclor 1260	PCB	NA	NA	< 36
11096-82-5	Aroclor 1262	PCB	NA	NA	< 36
37324-23-5	Aroclor 1268	PCB	NA	NA	< 36
319-85-7	beta-BHC	PESTICIDE	400	2,000	< 1.8
57-74-9	Chlordane	PESTICIDE	200	1,000	< 22
319-86-8	delta-BHC	PESTICIDE	NA	NA	< 1.8
1918-00-9	Dicamba	HERBICIDE	NA	NA	< 93
60-57-1	Dieldrin	PESTICIDE	40	200	< 1.8
115-29-7	Endosulfan	PESTICIDE	470,000	6,800,000	< 3.6
959-98-8	Endosulfan I	PESTICIDE	NA	NA	< 3.6
33213-65-9	Endosulfan II	PESTICIDE	NA	NA	< 3.6
1031-07-8	Endosulfan Sulfate	PESTICIDE	470,000	6,800,000	< 3.6
72-20-8	Endrin	PESTICIDE	23,000	340,000	< 1.8
58-89-9	gamma-BHC	PESTICIDE	400	2,000	< 1.8
5103-74-2	Gamma Chlordane	PESTICIDE	NA	NA	< 3.6
76-44-8	Heptachlor	PESTICIDE	100	700	< 1.8
1024-57-3	Heptachlor Epoxide	PESTICIDE	70	300	< 1.8
72-43-5	Methoxychlor	PESTICIDE	390,000	5,700,000	< 7.3
56-38-2	Parathion	PESTICIDE	NA	NA	< 330
1336-36-3	Polychlorinated Biphenyls	PESTICIDE	200	1,000	ND
8001-35-2	Toxaphene	PESTICIDE	600	3,000	< 180
	Unit		*mg/kg*	*mg/kg*	*mg/kg*
7429-90-5	Aluminum, Al	METAL	78,000	NA	9310
7440-36-0	Antimony, Sb	METAL	31	450	< 1.8
7440-38-2	Arsenic, As	METAL	19	19.00	1.6
7440-39-3	Barium, Ba	METAL	16,000	59,000	108
7440-41-7	Beryllium, Be	METAL	16	140	0.34
7440-43-9	Cadmium, Cd	METAL	78	78	0.32
7440-47-3	Chromium, Cr	METAL	NA	NA	16.2
18540-29-9	Chromium, hexavalent	METAL	240; ACD	240	< 0.45
16065-83-1	Chromium, trivalent	METAL	120,000	NA	16.2
7440-48-4	Cobalt, Co	METAL	NA	590	7.45
7440-50-8	Copper, Cu	METAL	NA	45000	23.4
57-12-5	Cyanide	METAL	1,600	23,000	< 0.56
7439-89-6	Iron, Fe	METAL	NA	NA	16400
7439-92-1	Lead, Pb	METAL	400	800	43.4
7439-96-5	Manganese, Mn	METAL	11,000	5,900	479
7439-97-6	Mercury, Hg	METAL	23	65.00	0.6
7440-02-0	Nickel, Ni	METAL	1,600	23,000	19.5
7782-49-2	Selenium, Se	METAL	390	5,700	< 1.4
7440-22-4	Silver, Ag	METAL	390	5,700	< 0.36
7440-28-0	Thallium, Ti	METAL	5	79	< 1.4
7440-62-2	Vanadium, V	METAL	78	1,100	20.9
7440-66-6	Zinc, Zn	METAL	23,000	110,000	66.9
	pH	pH	NA	NA	8.8

Notes: Shaded values indicate an exceedance of NJ RDCSRS and Morris-Blanchard Acceptance Criteria.

James P. Mack LLC
Licensed Site Remediation Professional
25 Starview Drive
Hillsborough, New Jersey 08844
908 448 6566
jamespmack@jpm-llc.com

LSRP DONOR SITE EVALUATION
TECHNICAL MEMORANDUM 069(Rev1.1)

Date: June 3, 2014

To: Tom Gallagher; Morris Companies
Keith Morris; Morris Companies
Randy Bonnell; Morris Companies

From: James Mack; LSRP; JPM LLC
LSRP of Record; Former Fairmount Chemical Site
LSRP License Number 576435

Re: Evaluation of Alternative Fill Material Testing Results for Suitability for Use at Blanchard Street Redevelopment Area located at Blanchard Street, Newark, New Jersey
28th Street Project
514 – 520 W 28th Street
New York, New York

This fill material donor site represents 18000 cubic yards. See LSRP Technical Memorandum #069 (May 13, 2014) for a detailed discussion of the waste characterization sampling and test results. In that effort, the proposed location for the fill material excavation was divided into 12 waste classification cells and soil sample sets (one set consists of a discrete sample for VOC analysis and a composite sample made up of five samples) were collected to characterize the material. A total of 42 discreet grab samples and 42 grid composite samples were collected. In addition to being divided into six waste classification grids, the material as also divided into four vertical layers corresponding to Layer A, B, C and D. Based upon the soil sampling results, the material from the following waste classification grids is suitable for placement at the Blanchard Street Redevelopment Area (BSRA).

- **Layer A: Waste Classification Cells - 1, 2, northern portion of 3, 6, 9, 10**
- **Layer B: Waste Classification Cells - 1 through 12**

- **Layer C: Waste Classification Cells - 1 through 12**
- **Layer D: Waste Classification Cells - 1 through 12 and Grid 4 & 5 Vault Area – El. (-7) to (-14.75)**

Two of the grids that were rejected in Technical Memorandum #069 were Surface Layer A Grids 3 and 8. The basis for rejecting Grid 8A and Grid 3A was elevated lead in Grid 8 and poor delineation between Grid 8 and Grid 3. Further detailed delineation between Grid 8 and Grid 3 has defined the boundary of the elevated lead. Based upon this delineation soil sampling for lead, the northern portion of Grid 3 is acceptable for placement at BSRA. The results of the delineation soil sampling and the southern boundary of Grid 3 is shown on the attached figures.

Clean Earth of North Jersey, Inc.

115 Jacobus Avenue, Kearny, NJ 07032 (973) 344-4004

Approval Code D) _____ B) _____

Generic Code D) _____ B) _____

Customer # _____

LSR # _____

Master WPS ☐ Yes ☐ No

Technical Rep. Initials _____

Broker Name (if applicable) _____

Approval Date _____

A. GENERATOR INFORMATION

Generator's Name 28th Highline Associates, LLC. c/o The Related Companies

Mailing Address 60 Columbus Circle, New York, NY

Waste Pickup Address 514-520 W 28th St, New York, NY 10001

EPA ID No. NYR000208587 MSDS Attached ☐ Yes ☒ No

Tech Contact Greg Gusher Phone (212)801-1160

Common Name of Waste RCRA Hazardous Lead Soil

Process Generating Waste Excavation activities related to the construction of a new building.

Biennial Report Codes: SIC Code _____ Source Code A G44 Form Code B W301

Origin Code _____ System Type H110

Is this waste from a plant closure or plant clean up? ☐ Yes ☒ No

B. PHYSICAL/CHEMICAL CHARACTERISTIC

REACTIVITY (PPM)

Total Cyanides 0.771ppm

Amenable Cyanides <200ppm

Reactive Sulfides <300ppm

Check if waste is:

- ☐ Water Reactive
- ☐ Air Reactive
- ☐ Shock Sensitive
- ☐ Generates Toxic Fumes when mixed with Acid, Base or H2O

ODOR

☒ None ☐ Mild ☐ Strong

Describe _____

COLOR Brown/Grey

PHYSICAL STATE @ 70°F

- ☒ Solid
- ☐ Liquid
- ☐ Powder
- ☐ Semi-Solid
- ☐ Single Phase
- ☐ Bi-Layered
- ☐ Multi-Layered
- ☐ Gas/Aerosol

CORROSIVITY (pH)

- ☐ ≤2.0
- ☐ 2.01 - 5.0
- ☒ 5.01 - 9.0
- ☒ 9.01 - 12.49
- ☐ ≥12.50

_____ Exact pH

PERCENT LIQUID/SOLID

Total Solids 100 %

Suspended Solids 0 %

Free Liquid 0 %

Water 3-10 %

IGNITABILITY

Liquids:

Flash Point °F

- ☐ <100°
- ☐ ≥100° ≤140°
- ☐ >140° ≤200°
- ☒ >200°
- ☐ Actual

Ignitable Solids: ☐ Yes ☒ No

SPECIFIC GRAVITY

- ☐ <.8
- ☐ ≥.8 ≤1
- ☐ >1 ≤1.2
- ☒ >1.2

Exact: _____

C. CHEMICAL COMPOSITION

	Check if SARA Title III Sec 313	Check if SARA III EHS Sec 302	Range Min.-Max.	
Historic Fill/Soil (sand, gravel, ash, brick/concrete/rock sized <18" & <20% of load)	☐	☐	100	%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
	☐	☐		%
		TOTAL		%

Please note the chemical composition total in the range (Max.) column must be greater than or equal to 100 percent.

7/23/2013

D. TOXICITY CHARACTERISTICS

Contaminant	EPA Waste #	Regulatory Level (mg/L)	Actual Level
Arsenic	D004	5.0	0.07
Barium	D005	100.0	2.28
Cadmium	D006	1.0	0.126
Chromium	D007	5.0	0.07
Chromium CR+6	D007	5.0	<5.0
Lead	D008	5.0	11.7
Mercury	D009	0.2	<0.0002
Selenium	D010	1.0	<0.10
Silver	D011	5.0	<0.10
Benzene	D018	0.5	<0.5
Carbon Tetrachloride	D019	0.5	<0.5
Chlordane	D020	0.03	<0.03
Chlorobenzene	D021	100.0	<100.0
Chloroform	D022	6.0	<6.0
o-Cresol	D023	200.0 **	<200.0
m-Cresol	D024	200.0 **	<200.0
p-Cresol	D025	200.0 **	<200.0
Cresol	D026	200.0 **	<200.0
2,4-D	D016	10.0	<10.0
1,4-Dichlorobenzene	D027	7.5	<7.5
1,2-Dichloroethane	D028	0.5	<0.5
1,1-Dichloroethylene	D029	0.7	<0.7
2,4-Dinitrotoluene	D030	0.13 *	<0.13
Endrin	D012	0.02	<0.02
Heptachlor (and its epoxide)	D031	0.008	<0.008
Hexachlorobenzene	D032	0.13 *	<0.13
Hexachlorobutadiene	D033	0.5	<0.5
Hexachloroethane	D034	3.0	<3.0
Lindane	D013	0.4	<0.4
Methoxychlor	D014	10.0	<10.0
Methyl Ethyl Ketone	D035	200.0	<200.0
Nitrobenzene	D036	2.0	<2.0
Pentachlorophenol	D037	100.0	<100.0
Pyridine	D038	5.0 *	<5.0
Tetrachloroethylene	D039	0.7	<0.7
Toxaphene	D015	0.5	<0.5
Trichloroethylene	D040	0.5	<0.5
2,4,5-Trichlorophenol	D041	400.0	<400.0
2,4,6-Trichlorophenol	D042	2.0	<2.0
2,4,5-TP (Silvex)	D017	1.0	<1.0
Vinyl chloride	D043	0.2	<0.2

* Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

** If o-,m- and p-Cresol concentrations cannot be differentiated, the total Cresol (D026) concentration is used. The regulatory level of total Cresol is 200mg/L.

E. HAZARDOUS CHARACTERISTICS

- ☐ Radioactive
- ☐ Infectious
- ☒ Toxic
- ☐ Explosive
- ☐ Pyrophoric
- ☐ Oxidizer
- ☐ Corrosive
- ☐ Other Describe _____
- ☐ Corrosive
- ☐ None of the above
- ☐ Compressed Gas
- ☐ Flammable Solid
- ☐ Organic Peroxide
- ☐ Shock Sensitive
- ☐ Reactive Metals (Specify in section C)

F. IDENTIFY THE HEALTH HAZARD CHARACTERISTICS FROM THE TABLE BELOW

Immediate (Acute) Health Hazard
- ☐ None
- ☐ Highly Toxic
- ☐ Toxic
- ☐ Irritant
- ☐ Sensitizer
- ☐ Corrosive
- ☐ Other Hazardous Chemicals with an adverse effect on a target organ that generally occurs as a result of short term exposure and with a short duration.

Delayed (Chronic) Health Hazard
- ☐ Carcinogens (if carcinogens are known to be in waste, specify the carcinogen in Section C)
- ☒ Other Hazardous Chemicals with an adverse effect on a target organ that generally occurs as a result of long term exposure and with a long duration.

G. SHIPPING INFORMATION

- ☐ Bulk Liquid
- ☒ Bulk Solid
- ☐ Bulk Sludge
- ☐ Other Describe _____
- ☐ Drums (Steel)
- ☐ Drums (Poly)

Shipping Frequency: Quantity 4500 tons Per Event

H. MANIFEST INFORMATION

Is this a DOT Hazardous Material? ☒ Yes ☐ No

Proper DOT shipping name (49CFR table 172.101) RQ, NA3077, Hazardous Waste Solid, nos (lead, soil) Rq. Units (lb/kg) 10

DOT Hazard Class / Division: 9 UN/UA NA3077 Packing Group (select one) ☐ I ☐ II ☒ III

Additional descriptions requirements (49CFR 172.203) _____

Emergency response telephone number (49CFR 172.604) 1-877-460-1038 (Rapid Response, Inc). Contact (print name) Scott Soden

I. WASTE CHARACTERISTICS

Is this a US EPA Hazardous Waste? ☒ Yes ☐ No US EPA Hazardous Waste Number(s) D008 Hazard Codes E

If yes, if the waste is a characteristic hazardous waste, does it contain underlying hazardous constituents (as defined at 40CRT 268.2(l)) Above the Universal Treatment Standard.

☐ Yes ☒ No If yes, please complete the UHC Waste Profile Addendum.

State Non-Hazardous Waste Number(s) N/A

Does this waste contain any PCBs? ☒ Yes ☐ No If yes, indicate level 0.22mg/kg Are PCBs TSCA Regulated? ☐ Yes ☒ No

Does this waste contain any herbicides, pesticides, dioxin or residues thereof? ☐ Yes ☒ No If yes, list compound and concentration in Section C.

Is this waste prohibited from land disposal under 40CFR Part 268? ☒ Yes ☐ No

If yes, list waste subcategory description, if applicable A - Restricted Waste Requires Treatment or check none ☐ None

Is this waste a (check one) ☒ Non-Wastewater ☐ Wastewater? (See 40CFR 268.2)

Benzene NESHAP applicability: Is waste subject to management under National Emission Standards for Benzene Waste Operations as provided in 40CFR Part 61 Subpart FF?

☐ Yes ☒ No If yes, give benzene concentration _____

If this waste is a RCRA Hazardous Waste, does it contain VOCs in concentrations ≥500 PPM (40CFR Subpart CC)? ☐ Yes ☒ No

Are there any special handling instructions for the disposal of this waste? ☐ Yes ☒ No If yes, specify _____

J. AUTHORIZATION TO CORRECT WMPS

I AUTHORIZE CLEAN EARTH OF NORTH JERSEY TO MAKE CORRECTIONS TO THIS WMPS. CORRECTIONS MUST BE CONSISTENT WITH THE RESULTS OF SAMPLE ANALYSIS AND REGULATORY REQUIREMENTS. I UNDERSTAND THAT A CORRECTED COPY OF THE WMPS WILL BE SENT TO ME.

Signature _____

K. SPECIAL HANDLING COMMENTS

L. OFFICIAL USE ONLY

M. APPROVAL

Safety _____

Environ _____

N. POLYCHLORINATED BIPHENYL (PCB), HERBICIDE, INSECTICIDE/ALUMINUM AND REACTIVE METAL WARRANTY

I hereby warrant that the material transferred to Clean Earth of North Jersey (CENJ) for transportation, treatment, storage and/or disposal is not radioactive waste, does not contain >1% asbestos and is not contaminated by either Polychlorinated Biphenyl or Herbicide/Pesticide/Insecticide or Dioxins or Furans of any value unless it is listed in Section C and approved by CENJ, nor does it contain Elemental Aluminum or Reactive Metal Paste, Powder, or Pigment unless it is listed in Section C and approved by CENJ and hereby agree to indemnify and hold CENJ harmless from any costs, damages, or other liability resulting from breach of this warranty or any other terms and conditions of this Waste Material Profile Sheet, including the indemnification listed on the back page.

O. The inforamtion on this Waste Material Profile Sheet (WMPS) may have been prepared by other individuals. By signing Section O of this WMPS, I certify that all information, including any attached information, is complete and is an accurate representation of the waste and its known or suspected hazards.

Date	Printed Name	Title	Signature
03/27/14	Michael Giuliano	Senior Project Mgr.	

Clean Earth of North Jersey has all of the appropriate permits for and will accept the waste that has been characterized/identified by this Approved Waste Material Profile Sheet.

7/23/2013

28th Highline Associates, LLC

Waste Profile CBU Sheet
Addendum

Generator Name 28th Highline Associates, LLC. c/o The Related Companies

Address 514-520 W 28th St

New York, NY 10001

Customer Name W 28th Street Project

Approval Number

Does your waste stream contain any of the below constituents? [x] Yes [ ] No

If yes, indicate either less than the listed value or state the actual level in the appropriate column.

Constituent	PPMW*	Less Than	Actual Level
Arsenic	4,000		6.1
Cadmium	4,000		4.96
Chromium +6	21,400		<0.46
Lead	80,000		663
Mercury	80		1.48
Beryllium	800		0.33
Nickel	80,000		27.7
Benzene	400		<5.3
Chlorobenzene	400		<5.3
Cumene	960		<960
Ethylene Glycol	56,000		<56,000
Methanol	4,800		<4,800
Methylene Chloride	880		0.027
Methyl Ethyl Ketone	800		<0.032
Methyl Isobutyl Ketone	1,360		<1360
Phenol	1,360		<2.6
Tetrachloroethylene	400		<.0053
Toluene	560		<0.0053
Trichloroethylene	480		<0.0053
Xylene	1,200		<0.0053

*mg/Kg

Certification

I certify that the information provided to Clean Earth of North Jersey is complete and is an accurate representation of the waste.

Generator's Name Print Michael Giuliano c/o 28th Highline Associates, LLC

Signature

7/23/2013

CLeANeARTH

Faster, smarter, greener solutions.

March 27, 2014

Mr. Ian Gerencser
EWMI
14 Brick Kiln Ct.
Northampton, PA 18067

Re: 520 West 28th Street
514-520 West 28th Street NY, NY 10001

Dear Mr. Gerencser:

Clean Earth of North Jersey (CENJ) has reviewed the lab data submitted for the above referred project. The soil representative of this data is acceptable for shipment to the CENJ TSDF located in Kearny NJ.

The data completed by Phoenix Labs with below referenced lab report designations was reviewed to make this determination.

a. G-4A
   i. Phoenix Lab Report BG19342, 3/24/14
   ii. Phase Lab Report BG19368, 3/24/2014
b. G-SA
   i. Phoenix Lab Report BG19345, 3/24/2014
   ii. Phoenix Lab Report BG1931, 3/24/2014
c. G-7A
   i. Phoenix Lab Report BG19348, 3/24/2014
   ii. BG19374, 3/24/2014
d. G-8A
   i. Phoenix Lab Report BG19351, 3/24/2014
   ii. Phoenix Lab Report BG19377, 3/18/2014
e. G-11A
   i. Phoenix Lab Report BG19360, 3/24/2014
   ii. Phoenix Lab Report BG19386, 3/18/2014
f. G-12A
   i. Phoenix Lab Report BG19364, 3/24/2014
   ii. Phoenix Lab Report BG19390, 3/18/2014
g. WC-3A
   i. Phoenix Lab Report BG19395, 3/24/2014
h. WC-4A
   i. Phoenix Lab Report BG19396, 3/24/2014
i. WC-6A
   i. Phoenix Lab Report BG19404, 3/24/2014

1. G-9A:
    a. Phoenix Lab Report BG19354, dated 3/24/2014
    b. Phoenix Lab Report BG19380, dated 3/18/2014
2. G-10A:
    a. Phoenix Lab Report BG19357, dated 3/24/2014
    b. Phoenix Lab Report BG19380, dated 3/18/2014
3. WC-5A:
    a. Phoenix Lab Report BG19401, 3/24/2014

In compliance with 40 CFR Part 264.12 (b) and 6 NYCRR 373-2.2 (d) (2) this letter notifies you that Clean Earth of North Jersey (CENJ) has the appropriate permits and the capacity to accept the above referred waste stream.

CENJ will accept this material throughout project duration pending an approved Waste Material Profile Sheet. If you may have any questions concerning this approval please call us at your earliest convenience.

Robert Fixter
General Manager

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 24, 2014

FOR: Attn: Mr Jeff Bogoian
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	03/13/14	12:50
Location Code:	IMPACT	Received by:	SW	03/14/14	17:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	5422				

Laboratory Data

SDG ID: GBG19342
Phoenix ID: BG19354

Project ID: W 28TH ST
Client ID: G 9A GRAB

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100			%	03/14/14	I	E160.3
1,4-dioxane							
1,4-dioxane	ND	100	100	ug/kg	03/15/14	JLI	SW8260B
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.2	1.0	ug/Kg	03/15/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.2	1.0	ug/Kg	03/15/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.2	0.73	ug/Kg	03/15/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.2	0.50	ug/Kg	03/15/14	JLI	SW8260
1,1-Dichloroethane	ND	5.2	1.0	ug/Kg	03/15/14	JLI	SW8260
1,1-Dichloroethene	ND	5.2	1.1	ug/Kg	03/15/14	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.2	0.69	ug/Kg	03/15/14	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.2	0.61	ug/Kg	03/15/14	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	1.4	ug/Kg	03/15/14	JLI	SW8260
1,2-Dibromoethane	ND	5.2	1.4	ug/Kg	03/15/14	JLI	SW8260
1,2-Dichlorobenzene	ND	5.2	0.57	ug/Kg	03/15/14	JLI	SW8260
1,2-Dichloroethane	ND	5.2	0.45	ug/Kg	03/15/14	JLI	SW8260
1,2-Dichloropropane	ND	5.2	0.73	ug/Kg	03/15/14	JLI	SW8260
1,3-Dichlorobenzene	ND	5.2	0.76	ug/Kg	03/15/14	JLI	SW8260
1,4-Dichlorobenzene	ND	5.2	0.81	ug/Kg	03/15/14	JLI	SW8260
2-Hexanone	ND	26	2.3	ug/Kg	03/15/14	JLI	SW8260
4-Methyl-2-pentanone	ND	26	1.2	ug/Kg	03/15/14	JLI	SW8260
Acetone	ND	50	50	ug/Kg	03/15/14	JLI	SW8260
Acrolein	ND	26	4.1	ug/Kg	03/15/14	JLI	SW8260
Acrylonitrile	ND	10	2.9	ug/Kg	03/15/14	JLI	SW8260
Benzene	ND	5.2	1.0	ug/Kg	03/15/14	JLI	SW8260
Bromochloromethane	ND	5.2	0.75	ug/Kg	03/15/14	JLI	SW8260

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 24, 2014

FOR: Attn: Mr Jeff Bogoian
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	03/13/14	11:10
Location Code:	IMPACT	Received by:	SW	03/14/14	17:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	5422				

Laboratory Data

SDG ID: GBG19356
Phoenix ID: BG19357

Project ID: W 28TH ST
Client ID: G 10A GRAB

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Percent Solid	100			%	03/14/14	I	E160.3
1,4-dioxane							
1,4-dioxane	ND	88	88	ug/kg	03/15/14	JLI	SW8260B
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.4	0.88	ug/Kg	03/15/14	JLI	SW8260
1,1,1-Trichloroethane	ND	4.4	0.88	ug/Kg	03/15/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.4	0.62	ug/Kg	03/15/14	JLI	SW8260
1,1,2-Trichloroethane	ND	4.4	0.43	ug/Kg	03/15/14	JLI	SW8260
1,1-Dichloroethane	ND	4.4	0.87	ug/Kg	03/15/14	JLI	SW8260
1,1-Dichloroethene	ND	4.4	0.96	ug/Kg	03/15/14	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.4	0.59	ug/Kg	03/15/14	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.4	0.52	ug/Kg	03/15/14	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.4	1.2	ug/Kg	03/15/14	JLI	SW8260
1,2-Dibromoethane	ND	4.4	1.2	ug/Kg	03/15/14	JLI	SW8260
1,2-Dichlorobenzene	ND	4.4	0.48	ug/Kg	03/15/14	JLI	SW8260
1,2-Dichloroethane	ND	4.4	0.39	ug/Kg	03/15/14	JLI	SW8260
1,2-Dichloropropane	ND	4.4	0.62	ug/Kg	03/15/14	JLI	SW8260
1,3-Dichlorobenzene	ND	4.4	0.65	ug/Kg	03/15/14	JLI	SW8260
1,4-Dichlorobenzene	ND	4.4	0.70	ug/Kg	03/15/14	JLI	SW8260
2-Hexanone	ND	22	2.0	ug/Kg	03/15/14	JLI	SW8260
4-Methyl-2-pentanone	ND	22	1.0	ug/Kg	03/15/14	JLI	SW8260
Acetone	ND	44	4.4	ug/Kg	03/15/14	JLI	SW8260
Acrolein	ND	22	3.5	ug/Kg	03/15/14	JLI	SW8260
Acrylonitrile	ND	8.8	2.5	ug/Kg	03/15/14	JLI	SW8260
Benzene	ND	4.4	0.87	ug/Kg	03/15/14	JLI	SW8260
Bromochloromethane	ND	4.4	0.64	ug/Kg	03/15/14	JLI	SW8260

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 18, 2014

FOR: Attn: Mr Jeff Bogoian
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	03/13/14	12:55
Location Code:	IMPACT	Received by:	SW	03/14/14	17:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	5422				

Laboratory Data

SDG ID: GBG19374
Phoenix ID: BG19380

Project ID: W 28TH ST
Client ID: G 9A COMP

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
TCLP Silver	< 0.10		0.10	0.05	mg/L	03/17/14	EK	SW6010
TCLP Arsenic	< 0.10		0.10	0.040	mg/L	03/17/14	EK	SW6010
TCLP Barium	0.75		0.10	0.010	mg/L	03/17/14	EK	SW6010
TCLP Cadmium	< 0.050		0.050	0.0050	mg/L	03/17/14	EK	SW6010
TCLP Chromium	0.02	B*	0.10	0.0070	mg/L	03/17/14	EK	SW6010
TCLP Mercury	< 0.0002		0.0002	0.0002	mg/L	03/17/14	RS	SW7470
TCLP Lead	< 0.10		0.10	0.017	mg/L	03/17/14	EK	SW6010
TCLP Selenium	< 0.10		0.10	0.10	mg/L	03/17/14	EK	SW6010
TCLP Metals Digestion	Completed					03/17/14	I/I	SW3005
TCLP Digestion Mercury	Completed					03/17/14	I/I	E1311/7470
TCLP Extraction for Metals	Completed					03/14/14	I	EPA 1311

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
March 18, 2014
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 18, 2014

FOR: Attn: Mr Jeff Bogoian
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	03/13/14	11:10
Location Code:	IMPACT	Received by:	SW	03/14/14	17:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	5422				

Laboratory Data

SDG ID: GBG19374
Phoenix ID: BG19383

Project ID: W 28TH ST
Client ID: G 10A COMP

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
TCLP Silver	< 0.10		0.10	0.05	mg/L	03/17/14	EK	SW6010
TCLP Arsenic	< 0.10		0.10	0.040	mg/L	03/17/14	EK	SW6010
TCLP Barium	0.66		0.10	0.010	mg/L	03/17/14	EK	SW6010
TCLP Cadmium	0.012	B	0.050	0.0050	mg/L	03/17/14	EK	SW6010
TCLP Chromium	0.01	B*	0.10	0.0070	mg/L	03/17/14	EK	SW6010
TCLP Mercury	< 0.0002		0.0002	0.0002	mg/L	03/17/14	RS	SW7470
TCLP Lead	0.03	B	0.10	0.017	mg/L	03/17/14	EK	SW6010
TCLP Selenium	< 0.10		0.10	0.10	mg/L	03/17/14	EK	SW6010
TCLP Metals Digestion	Completed					03/17/14	I/I	SW3005
TCLP Digestion Mercury	Completed					03/17/14	I/I	E1311/7470
TCLP Extraction for Metals	Completed					03/14/14	I	EPA 1311

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

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Phyllis Shiller, Laboratory Director
March 18, 2014
Reviewed and Released by: Bobbi Aloisa, Vice President

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

NY # 11301

Analysis Report

March 24, 2014

FOR: Attn: Mr Jeff Bogoian
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	03/12/14	13:05
Location Code:	IMPACT	Received by:	SW	03/14/14	17:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	5422				

Laboratory Data

SDG ID: GBG19394
Phoenix ID: BG19401

Project ID: W 28TH ST
Client ID: WC-5A

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.36		0.36	0.22	mg/Kg	03/17/14	LK	SW6010	
Aluminum	9310		36	7.2	mg/Kg	03/17/14	LK	SW6010	
Arsenic	1.6		0.7	0.72	mg/Kg	03/17/14	LK	SW6010	
Barium	108	N*	7.2	1.4	mg/Kg	03/17/14	LK	SW6010	
Beryllium	0.34		0.29	0.14	mg/Kg	03/17/14	LK	SW6010	
Calcium	27100		36	33	mg/Kg	03/17/14	LK	SW6010	
Cadmium	0.32	B*	0.36	0.14	mg/Kg	03/17/14	LK	SW6010	
Cobalt	7.45		0.36	0.14	mg/Kg	03/17/14	LK	SW6010	
Chromium	16.2		0.36	0.14	mg/Kg	03/17/14	LK	SW6010	
Copper	23.4	*	0.36	0.29	mg/kg	03/17/14	LK	SW6010	
Iron	16400		36	36	mg/Kg	03/17/14	LK	SW6010	
Mercury	0.60	N	0.07	0.04	mg/Kg	03/17/14	RS	SW-7471	
Potassium	4370		72	28	mg/Kg	03/17/14	LK	SW6010	
Magnesium	12400		36	2.2	mg/Kg	03/17/14	LK	SW6010	
Manganese	479	N	3.6	1.4	mg/Kg	03/17/14	LK	SW6010	
Sodium	306	N*	7	3.1	mg/Kg	03/18/14	LK	SW6010	B*
Nickel	19.5		0.36	0.14	mg/Kg	03/17/14	LK	SW6010	
Lead	43.4	N*	0.7	0.22	mg/Kg	03/17/14	LK	SW6010	
Antimony	< 1.8		1.8	1.8	mg/Kg	03/17/14	LK	SW6010	
Selenium	< 1.4		1.4	1.2	mg/Kg	03/17/14	LK	SW6010	
Thallium	< 1.4		1.4	1.4	mg/Kg	03/17/14	LK	SW6010	
Trivalent Chromium	16.2		0.50		mg/kg	03/18/14	KDB	Calculation	
Vanadium	20.9		0.4	0.14	mg/Kg	03/17/14	LK	SW6010	
Zinc	66.9	N*	0.7	0.36	mg/Kg	03/17/14	LK	SW6010	
Percent Solid	89				%	03/14/14	I	E160.3	
Chromium, Hexavalent	< 0.45		0.45	0.45	mg/Kg	03/18/14 11:22	KDB	SW3060/7196	
pH - Soil	8.80		0.10		pH Units	03/14/14 20:20	DH/KDB	4500-H B/9045	1
Redox Potential	210		1.0		mV	03/14/14	DH/KDB	SM2580B	1

Project ID: W 28TH ST
Client ID: WC-5A

Phoenix I.D.: BG19401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Cyanide	< 0.56	0.56	0.28	mg/Kg	03/16/14	O/GD	SW 9010/9012
Soil Extraction for PCB	Completed				03/14/14	BB/V	SW3545
Soil Extraction for Pesticide	Completed				03/14/14	BB	SW3545
Soil Extraction for SVOA	Completed				03/14/14	BJ/FV	SW3545
Mercury Digestion	Completed				03/17/14	I/I	SW7471
EPH Extraction	Completed				03/14/14	BS/K	NJDEP 10-08 R3
Soil Extraction for Herbicide	Completed				03/14/14	P/D	SW8151
Total Metals Digest	Completed				03/14/14	CB/AG	SW846 - 3050
NJ EPH Category 1 (Fuel #2/Diesel)							
>C28-C40	ND	56	4.5	mg/kg	03/18/14	BB	NJEPH 10-08 R3 1
C9-C28	ND	56	4.5	mg/kg	03/18/14	BB	NJEPH 10-08 R3 1
Total EPH	ND	56	4.5	mg/kg	03/18/14	BB	NJEPH 10-08 R3 1
QA/QC Surrogates							
% COD (surr)	84			%	03/18/14	BB	NJEPH 10-08 R3
% Terphenyl (surr)	79			%	03/18/14	BB	NJEPH 10-08 R3
Chlorinated Herbicides							
2,4,5-T	ND	46	46	ug/Kg	03/17/14	CE	SW8151
2,4,5-TP (Silvex)	ND	46	46	ug/Kg	03/17/14	CE	SW8151
2,4-D	ND	46	46	ug/Kg	03/17/14	CE	SW8151
2,4-DB	ND	460	460	ug/Kg	03/17/14	CE	SW8151
Dalapon	ND	46	46	ug/Kg	03/17/14	CE	SW8151
Dicamba	ND	93	93	ug/Kg	03/17/14	CE	SW8151
Dichloroprop	ND	46	46	ug/Kg	03/17/14	CE	SW8151
Dinoseb	ND	93	93	ug/Kg	03/17/14	CE	SW8151
QA/QC Surrogates							
% DCAA	57			%	03/17/14	CE	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	03/15/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	52			%	03/15/14	AW	30 - 150 %
% TCMX	46			%	03/15/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.6	2.6	ug/Kg	03/16/14	MH	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	03/16/14	MH	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	03/16/14	MH	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	03/16/14	MH	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081

Project ID: W 28TH ST
Client ID: WC-5A

Phoenix I.D.: BG19401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
b-BHC	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
Chlordane	ND	22	22	ug/Kg	03/16/14	MH	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	03/16/14	MH	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	03/16/14	MH	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	03/16/14	MH	SW8081
Endrin	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	03/16/14	MH	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	03/16/14	MH	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	03/16/14	MH	SW8081
Methoxychlor	ND	7.3	7.3	ug/Kg	03/16/14	MH	SW8081
Toxaphene	ND	180	180	ug/Kg	03/16/14	MH	SW8081
QA/QC Surrogates							
% DCBP	55			%	03/16/14	MH	30 - 150 %
% TCMX	52			%	03/16/14	MH	30 - 150 %
Alpha Chlordane	ND	5	5	ug/Kg	03/16/14	MH	SW8081
Semivolatiles							
1,1-Biphenyl	ND	260	110	ug/Kg	03/15/14	DD	SW 8270
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	03/15/14	DD	SW 8270
2,3,4,6-tetrachlorophenol	ND	260	170	ug/Kg	03/15/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	03/15/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	150	120	ug/Kg	03/15/14	DD	SW 8270
2,4-Dichlorophenol	ND	150	130	ug/Kg	03/15/14	DD	SW 8270
2,4-Dimethylphenol	ND	260	92	ug/Kg	03/15/14	DD	SW 8270
2,4-Dinitrophenol	ND	260	260	ug/Kg	03/15/14	DD	SW 8270
2,4-Dinitrotoluene	ND	150	150	ug/Kg	03/15/14	DD	SW 8270
2,6-Dinitrotoluene	ND	150	120	ug/Kg	03/15/14	DD	SW 8270
2-Chloronaphthalene	ND	260	100	ug/Kg	03/15/14	DD	SW 8270
2-Chlorophenol	ND	260	100	ug/Kg	03/15/14	DD	SW 8270
2-Methylnaphthalene	ND	260	110	ug/Kg	03/15/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	03/15/14	DD	SW 8270
2-Nitroaniline	ND	1800	370	ug/Kg	03/15/14	DD	SW 8270
2-Nitrophenol	ND	260	230	ug/Kg	03/15/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	03/15/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	150	150	ug/Kg	03/15/14	DD	SW 8270
3-Nitroaniline	ND	1800	800	ug/Kg	03/15/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	260	260	ug/Kg	03/15/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	03/15/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	03/15/14	DD	SW 8270
4-Chloroaniline	ND	740	170	ug/Kg	03/15/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	03/15/14	DD	SW 8270
4-Nitroaniline	ND	1800	120	ug/Kg	03/15/14	DD	SW 8270
4-Nitrophenol	ND	1800	170	ug/Kg	03/15/14	DD	SW 8270
Acenaphthene	ND	260	110	ug/Kg	03/15/14	DD	SW 8270

Project ID: W 28TH ST
Client ID: WC-5A

Phoenix I.D.: BG19401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Acenaphthylene	ND	150	100	ug/Kg	03/15/14	DD	SW 8270	
Acetophenone	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Anthracene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Atrazine	ND	150	150	ug/Kg	03/15/14	DD	SW 8270	
Benz(a)anthracene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Benzaldehyde	ND	260	110	ug/Kg	03/15/14	DD	SW 8270	
Benzo(a)pyrene	ND	150	120	ug/Kg	03/15/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	130	ug/Kg	03/15/14	DD	SW 8270	
Benzo(ghi)perylene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Benzyl butyl phthalate	ND	260	95	ug/Kg	03/15/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	03/15/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	150	100	ug/Kg	03/15/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	03/15/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	03/15/14	DD	SW 8270	
Caprolactam	ND	260	260	ug/Kg	03/15/14	DD	SW 8270	
Carbazole	ND	1800	280	ug/Kg	03/15/14	DD	SW 8270	
Chrysene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	150	120	ug/Kg	03/15/14	DD	SW 8270	
Dibenzofuran	ND	260	110	ug/Kg	03/15/14	DD	SW 8270	
Diethyl phthalate	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Dimethylphthalate	ND	260	110	ug/Kg	03/15/14	DD	SW 8270	
Di-n-butylphthalate	ND	260	98	ug/Kg	03/15/14	DD	SW 8270	
Di-n-octylphthalate	ND	260	95	ug/Kg	03/15/14	DD	SW 8270	
Fluoranthene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Fluorene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Hexachlorobenzene	ND	150	110	ug/Kg	03/15/14	DD	SW 8270	
Hexachlorobutadiene	ND	260	130	ug/Kg	03/15/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	03/15/14	DD	SW 8270	
Hexachloroethane	ND	150	110	ug/Kg	03/15/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Isophorone	ND	150	100	ug/Kg	03/15/14	DD	SW 8270	
Naphthalene	ND	260	110	ug/Kg	03/15/14	DD	SW 8270	
Nitrobenzene	ND	150	130	ug/Kg	03/15/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	260	100	ug/Kg	03/15/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	150	120	ug/Kg	03/15/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	150	140	ug/Kg	03/15/14	DD	SW 8270	
Pentachlorophenol	ND	260	140	ug/Kg	03/15/14	DD	SW 8270	
Phenanthrene	ND	150	110	ug/Kg	03/15/14	DD	SW 8270	
Phenol	ND	260	120	ug/Kg	03/15/14	DD	SW 8270	
Pyrene	ND	260	130	ug/Kg	03/15/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	80			%	03/15/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	71			%	03/15/14	DD	30 - 115 %	
% 2-Fluorophenol	60			%	03/15/14	DD	25 - 121 %	
% Nitrobenzene-d5	72			%	03/15/14	DD	23 - 120 %	
% Phenol-d5	64			%	03/15/14	DD	24 - 113 %	
% Terphenyl-d14	80			%	03/15/14	DD	18 - 137 %	

Project ID: W 28TH ST
Client ID: WC-5A

Phoenix I.D.: BG19401

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,2-Diphenylhydrazine	ND	330	330	ug/Kg	03/17/14	DD	SW8270	
Benzyl Alcohol	ND	330	330	ug/Kg	03/17/14	DD	SW8270	
Parathion	ND	330	330	ug/Kg	03/17/14	DD	SW8270	LO

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

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

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

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

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

Phyllis Shiller, Laboratory Director
March 24, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

THR

GENERATOR WASTE PROFILE SHEET

Requested Disposal Facility: Tunnell Hill Reclamation LLC

Waste Profile #: THR 202

I. Generator Information

Date: 4/18/2014

Generator Name: 28th Highline Associates, LLC. c/o The Related Companies

Generator Site Address: 514-520 W 28th St, New York, NY 10001

City: New York | County: New York | State: NY | Zip: 10001

Generator State ID Number: | SIC Code Number:

Generator Mailing Address (if different): 60 Columbus Circle

City: New York | County: New York | State: NY | Zip:

Generator Contact Name: Greg Gushee

Phone Number: 212-801-1160 | Fax Number:

II. Transporter Information

Transporter Name: Cardella Trucking, Inc.

Transporter Address:

City: | County: | State: | Zip:

Transporter Contact Name:

Phone Number: | Fax Number:

State Transportation Number:

III. Waste Stream Information

Name of Waste: Non-hazardous Soil

Process Generating Waste: Excavation to install building foundation

Type of Waste: ☐ INDUSTRIAL PROCESS WASTE or ☒ POLLUTION CONTROL WASTE

Physical State: ☒ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID ☐ OTHER:

Method of Shipment: ☒ BULK ☐ DRUM ☐ BAGGED ☐ OTHER:

Estimated Annual Volume: ☐ CUBIC YARDS: ☒ TONS: 5,000 ☐ OTHER:

Frequency: ☐ ONE TIME ☐ DAILY ☐ WEEKLY ☐ MONTHLY ☒ OTHER: Event

Special Handling Instructions: None

IV. Representative Sample Certification

☐ NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☒ YES or ☐ NO

Sample Date: April 2014 | Type of Sample: ☒ COMPOSITE SAMPLE ☒ GRAB SAMPLE

Sampler's Employer: Environmental Waste Minimization, Inc.

Sampler's Name (printed): Nick Acker | Signature:

THR

GENERATOR WASTE PROFILE SHEET (continued)

Waste Profile #
THR202

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Historic Fill/Soil (soil, sand, gravel, coal ash)	70-100
2. Concrete/brick/block sized <2ft	0-20
3. 6mil Plastic Liners from Stockpile Management	0-10

Color:	Odor (describe):	Free Liquids:	% Solids:	pH:	Flash Point:	Phenol
brown	none	☐ YES or ☒ NO Content ___ %	100	4-9	N/A °F	___ ppm

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ YES or ☒ NO
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ YES or ☒ NO
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this waste generated at a Federal Superfund Clean Up Site?	☐ YES or ☒ NO

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Tunnell Hill Reclamation LLC.

Michael Giuliano - Sr. Project Mgr. — AUTHORIZED REPRESENTATIVE NAME AND TITLE (Printed)

28th Highline Associates, LLC — COMPANY NAME

AUTHORIZED REPRESENTATIVE SIGNATURE

05/19/14 — DATE

VII. Tunnell Hill Reclamation Decision

☒ Approved ☐ Rejected Expiration: upon completion / 12 months

Conditions:

Waste Profile # THR202 must be posted on manifests,

Rod Reeds / Gm — Name, Title

Signature

5/20/14 — Date

Tunnel Hill Partners

05/16/2014

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

Dear Mr. Gerencser,

The Generator Waste Profile (GWP) utilized by Tunnell Hill Reclamation, LLC (THR) provides for special waste disposal authorization. The approval is valid for three years with annual renewal requirements. This is for a proven consistent waste stream. As the waste materials included in the 514-520 W 28th St. New York GWP is generated from a site clean-up, the THR approval number is good for the specific amount and analytical information unique to the project. This is for a one time disposal based upon those submitted data. THR is in receipt of the Cardella Waste Westside Environmental letter dated 05/15/2014 from Michael Cardella and approves the process for waste isolation and shipping protocol proposed for this project. If you have any questions regarding this project please contact me directly.

Respectfully,

Thomas Flippo

Manager – Environmental Compliance
Tunnel Hill Partners, LLC

O: 740.342.1180
F: 740.342.1331
C: 614.325.6788

For Tom Flippo

Westside Environmental

CARDELLA WASTE
FOR A GREENER TOMORROW™

April 28, 2014

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

RE: 514-520 W. 28th Street, New York, New York

Dear Mr. Gerencser:

Westside Transload, LLC has received the information about the above referenced project ("the project site"), and has made the necessary arrangements to transload material from the project site location listed above to the Tunnel Hill Reclamation Landfill ("Tunnel Hill") facility in New Lexington, OH. Tunnel Hill will dispose of the material in accordance with a permit issued by the Ohio Department of Environmental Protection.

The approved materials are referenced from mapped grid locations designated by the generator and provided to Westside Transload LLC.

Materials received will be scaled at our certified scale. We will perform no processing on the material while it is at our facility.

Please contact me if you have any questions or comments.

Sincerely,
Westside Transload, LLC

Michael Cardella, President

May 15, 2014

Kevin McCarty
Integral Consulting Inc.
61 Broadway, Suite 1601
New York, New York 10006

RE: 520 West 28th Street

Dear Mr. McCarty,

Thank you for taking the time to speak with Westside Transload LLC ("Westside") in regard to the project located at 520 West 28th Street (the "project site"). Pursuant to your request, please find below the process by which Westside will manage the material received from the project site to the Tunnel Hill Reclamation Landfill ("Tunnel Hill") located in New Lexington, Ohio.

- Inbound Material:
  - Vehicles loaded with pre-approved materials are permitted to deliver material to Westside.
  - Each load leaving the project site is accompanied by an individually-numbered manifest, signed by the Generator or an Authorized Agent thereof, signifying the conformity of the material. ("Inbound Manifest") One copy of the signed manifest remains at the project site.
  - The loaded vehicle entering Westside is initially weighed in at Westside's state-certified scale. Each driver is required to provide the Authorized Official Transporter's information and certify delivery of the material to Westside on the Inbound Manifest.
  - Westside's certified Scalemaster reviews all inbound material documents, confirming that each Inbound Manifest submitted with the load contains the following items:
    - Generator's or Authorized Agent's name and signature
    - Shipment date
    - Authorized Official Transporter's business, permit, and vehicle information
    - Driver Signature and Delivery date
  - The Scalemaster then notes the gross weight of the loaded vehicle into the recording system, certifies that the material has been received by Westside by providing his signature in the destination portion of the Internal Manifest and retains the remaining five copies of the Internal Manifest.
  - The driver is then provided with a Westside Internal Manifest ("Internal Manifest"), which denotes the project, vehicle number, and associated Inbound Manifest number. The driver is directed to the transfer station, approximately one (1) mile to the rear of the facility in order to unload the material.

- Each driver is met in the unloading area by Westside's Facility Supervisor. The driver provides the Facility Supervisor with the Internal Manifest, who then directs the driver to the appropriate designated area to unload the material. Each designated dumping area ensures that material from each project, including the project site here, is isolated from all other material, such that material from the project site is loaded without being combined with material from any other project, site, etc.

- When the material is unloaded, the Facility Supervisor and driver each sign the Internal Manifest, indicating completion of the work. One copy of the Internal Manifest is retained by the Facility Supervisor and the other is provided to the driver for submission to the Scalemaster.

- Prior to leaving the facility, the vehicle returns to the scale house in order to obtain the unloaded, or tare, weight and submits the Westside Internal Manifest to the Scalemaster.

- The Scalemaster inputs the vehicle's tare weight into the recording system and returns to the driver with one (1) copy of the completed and certified Inbound Manifest and the corresponding weight ticket.

- Outbound Material:

  - Westiside has designated specific railcars for use with regard to the project site. Upon arrival of empty railcars at the Westside facility, the Facility Supervisor loads the outgoing railcars with material from the project site. Material from the project site will be loaded on outbound railcars and released to Tunnel Hill within twenty-four (24) hours of receipt of the subject material.

  - The loaded railcar is then weighed by the Facility Supervisor using Westside's railway scale. The loaded weight and Internal Manifest are provided to the Scalemaster, who records the weight into the system and creates a corresponding weight ticket.

  - An Outbound Manifest previously provided by Tunnel Hill is completed for each loaded railcar, indicating the generator and project name and location, transporter, and destination. Upon release of the railcar to Tunnel Hill, Westside will provide the completed Outbound Manifests as well as all Inbound Manifests of loads related to the subject railcar to Tunnel Hill.

  - EWMI will be notified upon the release of each railcar to Tunnel Hill from the Westside Facility.

  - Railcars will be tracked on a daily basis and the location of the railcars provided to EWMI.

  - Weather-related effects on the material, such as moisture from rain or snow, will not affect the acceptance of the material into Tunnel Hill.

  - Upon arrival of railcars to Tunnel Hill, Tunnel Hill will notify EWMI and Westside that the railcars have arrived, inspection has been completed and railcars contain the approved

material. All Inbound and Outbound Manifests will be signed by Tunnel Hill and provided to Westside. Upon receipt and processing, Westside will email a scanned copy and mail original, executed manifests to all related parties.

Thank you for your attention to this matter. If you should have any questions or require anything further, please do not hesitate to contact this office.

Very truly yours,
Westside Transload, LLC

Michael Cardella, President

THR

GENERATOR WASTE PROFILE SHEET

Requested Disposal Facility: Tunnell Hill Reclamation LLC

Waste Profile #

I. Generator Information — **Date:** 4/18/2014

Generator Name: 28th Highline Associates, LLC. c/o The Related Companies			
Generator Site Address: 514-520 W 28th St, New York, NY 10001			
City: New York	County: New York	State: NY	Zip: 10001
Generator State ID Number:		SIC Code Number:	
Generator Mailing Address (if different): 60 Columbus Circle			
City: New York	County: New York	State: NY	Zip:
Generator Contact Name: Greg Gushee			
Phone Number: 212-801-1160		Fax Number:	

II. Transporter Information

Transporter Name: Cardella Trucking, Inc.			
Transporter Address:			
City:	County:	State:	Zip:
Transporter Contact Name:			
Phone Number:		Fax Number:	
State Transportation Number:			

III. Waste Stream Information

Name of Waste: Non-hazardous Soil	
Process Generating Waste: Excavation to install building foundation	
Type of Waste:	☐ INDUSTRIAL PROCESS WASTE or ☒ POLLUTION CONTROL WASTE
Physical State:	☒ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID ☐ OTHER: ____
Method of Shipment:	☒ BULK ☐ DRUM ☐ BAGGED ☐ OTHER: ____
Estimated Annual Volume:	☐ CUBIC YARDS: ____ ☒ TONS: 5,000 ☐ OTHER: ____
Frequency:	☐ ONE TIME ☐ DAILY ☐ WEEKLY ☐ MONTHLY ☒ OTHER: Event
Special Handling Instructions: None	

IV. Representative Sample Certification — ☐ NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	☒ YES or ☐ NO	
Sample Date: April 2014	Type of Sample: ☒ COMPOSITE SAMPLE	☒ GRAB SAMPLE
Sampler's Employer: Environmental Waste Minimization, Inc.		
Sampler's Name (printed): Nick Acker	Signature:	

THR

GENERATOR WASTE PROFILE SHEET (continued)

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Historic Fill/Soil (soil, sand, gravel, coal ash)	70-100
2. Concrete/brick/block sized <2ft	0-20
3. 6mil Plastic Liners from Stockpile Management	0-10

Color:	Odor (describe):	Free Liquids:	% Solids:	pH:	Flash Point:	Phenol
brown	none	☐ YES or ☒ NO Content ____%	100	4-9	N/A °F	____ppm

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ YES or ☒ NO
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ YES or ☒ NO
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ YES or ☒ NO
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ YES or ☒ NO
Is this waste generated at a Federal Superfund Clean Up Site?	☐ YES or ☒ NO

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Tunnell Hill Reclamation LLC.

Michael Giuliano - Sr. Project Mgr. — AUTHORIZED REPRESENTATIVE NAME AND TITLE (Printed)

28th Highline Associates, LLC — COMPANY NAME

AUTHORIZED REPRESENTATIVE SIGNATURE

05/19/14 — DATE

VII. Tunnell Hill Reclamation Decision

☐ Approved ☐ Rejected Expiration: _____

Conditions:

_____

_____

_____

_____

_____

Name, Title _____ Signature _____ Date _____

PROFILE APPROVAL

Date: 5-12-2014

Customer: EWMI

Generator: 28th Highline Associates, LLC. C/o The Related Companies

Profile Description: Lead Contaminated Soil

Profile Number: 640405 **Expiration Date:** 5/30/2015

Waste Category: STABB07

Analytical Summary: The following information has been reviewed by our materials management group and has been approved pending a signed profile and PCB certification letter.

Field Sampling Summary 5-9-2014 (Impact Environmental Consulting)
Treatability Sample (PSC Hatfield)

Volume: 4,500 Tons

Daily Acceptance: Maximum 12-15 Loads/day

This Material will be accepted throughout the life of the above project under approval number 640405 at the PSC Hatfield facility EPA ID 085690592 (operating permit under Republic Environmental Systems (PA), LLC.

Based on a review of the information and or analytical data provided we have determined that PSC Environmental Services – Hatfield TSDF has the capability, capacity, and possesses the necessary insurance and permits to dispose of this waste material in accordance with all federal, state, and local regulations.

TSD Destination Facility – PSC Environmental Services (Republic Environmental Systems, (PA) LLC 2869 Sandstone Drive, Hatfield, PA 19440

PSC

Waste Characterization Report

Sales Rep.	Process Code	Reference #	Approval Code
Robert W Jones			

☒ Republic Env. Systems (PA), Inc.
2869 Sandstone Drive Hatfield, PA 19440
(215) 822-2676 Fax (215) 997-8219
PAD085690592

☐ Northland Environmental
275 Allens Avenue Providence, RI 02905
(401) 781-6340 Fax (401) 781-9710
RID040098352

☐ Chemical Pollution Control
120 S Fourth St. Bayshore, NY 11706
(631) 586-0333 Fax (631) 586-0727
NYD082785429

☐ PSC – Allworth, Inc.
500 Medco Road Birmingham, AL 35217
(205) 841-1707 Fax (205) 841-1744
ALD094476793

☐ PSC – Georgia Recovery Systems
8025 Spence Road Fairburn, GA 30213
(770) 969-7886 Fax (770) 964-9531
GAR000026088

I Generator Information

E Mail Address

Generator Name	28th Highline Associates, LLC. c/o The Related Companies	S.I.C/NAICS Code		US EPA ID #.	NYR000208587		
Address (site) .	514-520 W 28th Street	City:	New York	State:	NY	Zip	10001
Address (mailing).	60 Columbus Circle	City	New York	State.	NY	Zip:	10023
Contact:	Greg Gusher	Phone:	(212) 801-1160	Fax		Form Code:	W301

II Invoicing Information

Customer Name.	EWMI	E Mail Address:	AStephens@EWMI-info.com		
Address:	14 Brick Kiln Court				
City:	Northampton	State:	PA	Zip Code:	18067
Contact.	Arlene Stephens	Phone:	484-275-6900	Fax:	484-275-6970

III Waste Information

Waste Common Name: RCRA Hazardous Lead Soil

Detailed description of process generating waste. (attach additional sheets if necessary): Excavation activities related to the construction of a new building.

IV General Information

1. Has laboratory analysis been performed on the waste?	☒ Yes	☐ No	If yes, please attach a copy.	
2. Is this waste a commercial product or spill residue?	☐ Yes	☒ No	If yes, please provide MSDS(s)	
3. Is a representative sample provided which matches the description on this form?	☒ Yes	☐ No		
a. Where was sample taken? Grid 5	b. Date sample obtained	5/1/2014	c. Sampling device.	Excavator
4. Does your company have an approved facilities list?	☐ Yes	☒ No	If yes, please attach a copy	
5. Are there any specific requirements for the disposal of this waste?	☐ Yes	☒ No	If yes, please indicate	

V Regulatory Information

1. Is this a US EPA hazardous waste?	☒ Yes	☐ No	7. Is this waste infectious or medical waste?	☐ Yes	☒ No
2. Is this a state hazardous waste?	☐ Yes	☒ No	8. Is this waste radioactive?	☐ Yes	☒ No
3. Is this waste subject to Categorical Discharge Standards?	☐ Yes	☒ No	9. Is this waste explosive	☐ Yes	☒ No
4. Is this a PCB waste regulated under TSCA?	☐ Yes	☒ No	10 Does this waste contain asbestos?	☐ Yes	☒ No
5. Is this waste generated from a CERCLA cleanup action?	☐ Yes	☒ No	11. Is this waste subject to RCRA subpart CC Regulations? (Contains >500 ppm VOC's by weight)	☐ Yes	☒ No
6 Is this a dioxin bearing waste as per 40 CFR part 261.31?	☐ Yes	☒ No	12. Is this waste subject to benzene NESHAP regulations?	☐ Yes	☒ No

Comments

VI Chemical Composition

List all constituents of this waste (Both hazardous and non hazardous, trade names are not acceptable, ranges must be less than 30%). If any of the below listed constituents are subject to Toxic Release Inventory reporting requirements under 40 CFR, Part 372 please indicate by checking the box marked TRI

1	Historic Fill/Soil (sand, gravel, ash, brick/concrete sized <18" & < 20% of load	☐ TRI	Range %	100%
2		☐ TRI	Range %	
3		☐ TRI	Range %	
4		☐ TRI	Range %	
5		☐ TRI	Range %	

G Physical Characteristics

Odor: ☒ None ☐ Mild ☐ Strong Description: _____ Specific Gravity: ☐ <0.8 ☐ 0.8-1.0 ☒ >1.0 Actual _____

Viscosity: ☐ Low ☐ Medium ☒ High Layering: ☐ Single Layer ☐ Multilayered

Flash Point (F) ☐ <70 ☐ 70-100 ☐ 100-140 ☒ >140 Actual _____ Color: Brown/Black

pH ☐ <2.0 ☐ 2.01-5.0 ☒ 5.01-9.0 ☐ 9.01-12.49 ☐ >12.50 Actual _____

Reactivity: ☐ Unstable ☐ Water reactive ☐ Cyanides ☐ Sulfides ☒ None Pumpable? ☐ Yes ☒ No % Free Liquids 0%

Physical State: ☒ Solid ☐ Liquid ☐ Solid/liquid ☐ Semi-solid ☐ Powder Fuel Info: BTU/lb. _____ % Halogens _____

H Organics

Results based on ☐ Generator Knowledge ☒ Analysis
Results expressed in ☐ TCLP (mg/l) ☒ Total (mg/kg)

Endrin	☐ <0.02	<0.002	1,2-Dichloroethane	☐ <0.8	<0.006
Lindane	☐ <0.4	<0.002	1,1 Dichloroethylene	☐ <0.7	<0.006
Methoxychlor	☐ <10.0	<0.015	2,4 Dinitrotoluene	☐ <0.13	<0.13
Toxaphene	☐ <0.5	<0.010	Heptachlor	☐ <0.008	<0.008
2,4-D	☐ <10.0	<0.046	Hexachlorobenzene	☐ <0.13	<0.13
Silvex (2,4,5-TP)	☐ <1.0	<0.046	Hexachlorobutidiene	☒ <0.5	
Benzene	☐ <0.5	<0.006	Hexachloroethane	☐ <3.0	<0.13
Carbon Tetrachloride	☐ <0.5	<0.006	Methyl Ethyl Ketone	☐ <200	<0.013
Chlordane	☐ <0.03	<0.032	Nitrobenzene	☐ <2.0	<0.13
Chlorobenzene	☐ <100	<0.006	Pentachlorophenol	☐ <100	<0.26
Chloroform	☐ <6.0	<0.006	Pyridine	☒ <5.0	
O-Cresol	☐ <200	<0.26	Tetrachloroethylene	☐ <0.7	<0.006
M-Cresol	☐ <200	<0.23	Trichloroethylene	☐ <0.5	<0.006
P-Cresol	☐ <200	<0.23	2,4,5 Trichlorophenol	☐ <400	<0.26
Cresol	☐ <200	<0.23	2,4,6 Trichlorophenol	☐ <2.0	<0.13
1,4 Dichlorobenzene	☐ <7.5	<0.006	Vinyl Chloride	☐ <0.2	<0.006

I Heavy Metals

Results based on ☐ Generator Knowledge ☐ Analysis
Results expressed in ☒ TCLP (mg/l) ☐ Total (mg/kg)

Arsenic	☒ <5.0		Selenium	☒ <1.0	
Barium	☒ <100		Silver	☒ <5	
Cadmium	☒ <1		Copper		60mg/kg
Chromium	☒ <5		Nickel		38mg/kg
Lead	☐ <5	741	Zinc		202mg/k
Mercury	☒ <0.2		Other		

J Other Components (mg/kg) (ranges are acceptable)

Total Cyanide	<1	Amenable cyanide	<1
Total Sulfide	<100	Reactive Sulfide	<50
Pesticides	see data	Herbicides	see data
Ammonia	see data	Total PCB's	<0.22-1(.05
Total HOC's	see data	Total VOC's	see data

K Land Disposal Restrictions

Is this waste subject to land ban restrictions? ☒ Yes ☐ No
Is this waste considered RCRA debris? ☐ Yes ☒ No

Is this waste a ☐ Waste water? or ☒ Non-waste water?

Identify all UHC's in this waste: None

Identify all waste Subcategories: _____

L DOT Information

Is this waste DOT hazardous? ☒ Yes ☐ No Marine Pollutant? ☐ Yes ☒ No Poison Inhalation Hazard? ☐ Yes ☒ No Zone _____

DOT Shipping Name: RQ, Hazardous Waste Solid, nos Technical Constituents: lead, soil

DOT UN/NA #: NA3077 Hazard Class: 9 Packaging Group: III

EPA/State Hazardous Waste Numbers: D008

M Frequency and Mode of Shipments

Method of shipment: ☐ Bulk liquid ☒ Bulk solid ☐ Drums ☐ Other _____ Container type/size: Trixle

Volume per shipment: 25 ☐ Gallons ☒ Tons ☐ Drums ☐ Other _____

Frequency: ☐ One time ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly ☒ Other Event

N Pennsylvania Facility Specific Information (to be completed only if waste is destined for a TSDF in PA)

1. If this waste is considered non-regulated, please indicate the appropriate Pennsylvania Residual Waste Code, and complete question #2 N/A
2. Describe any source reduction strategies currently in place or being evaluated to reduce the volume of this waste N/A

O Generator Certification

I hereby certify that the above and attached information is complete and accurate and that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed.

Title: Senior Project Manager Date: 05/29/14

Name: Michael Giuliano as agent for Signature: [signature]

P TSD Facility Use Only: 28M Highline Associates, LLC

I certify that I have reviewed and am familiar with the information in the application submitted for approval. I believe the information provided herein conforms to the facilities approved waste analysis plan and operating permits

Title: _____ Date _____

Name: _____ Signature: _____

OFFICIAL PROFILE APPROVAL

Date: 5-30-2014

Customer: EWMI

Generator: 28th Highline Associates, LLC. C/o The Related

Profile Description: Lead Contaminated Soil

Profile Number: 640405 **Expiration Date**: 5/30/2015

Waste Category: STABB07

Analytical Summary: Field Sampling Summary 5-9-2014(Impact Environmental Consulting Inc.)
Treatability Sample (PSC Hatfield)

Volume: 4,500 Tons

Daily Acceptance: Maximum 13 Loads/day

This Material will be accepted throughout the life of the above project under permit #PAD085690592

Based on a review of the information and or analytical data provided we have determined that PSC Environmental Services – Hatfield TSDF has the capability, capacity, and possesses the necessary insurance and permits to dispose of this waste material in accordance with all federal, state, and local regulations.

TSD Destination Facility – PSC Environmental Services (Republic Environmental Systems, (PA) LLC 2869 Sandstone Drive, Hatfield, PA 19440

Ian Gerencser

From: Alana Carroll [acarroll@integral-corp.com]
Sent: Thursday, May 29, 2014 8:53 AM
To: Michael Giuliano
Cc: Ian Gerencser; Giuliano, Michael; Kevin McCarty; Eddie Ferris; echiarelli@newyorkconcrete.com; James Sherrier
Subject: Re: PSC - Approvals Package

Michael,

The PSC package is approved for Related's signature. Please note that Greg's last name is misspelled on the profile.

Alana Carroll
Integral Consulting Inc.

On May 29, 2014, at 7:36 AM, "James Sherrier" <jsherrier@ewmi-info.com> wrote:

> Can we get this signed and sent back this morning. Upon receipt we will provide final approval letter. First day of shipment we can only send 2 trucks. I'd like to do this Friday so next week we have more flexibility.
>
> Jim
>
> Sent from my iPhone
>
> On May 28, 2014, at 4:27 PM, "Ian Gerencser" <igerencser@ewmi-info.com> wrote:
>
> > Alana,
> >
> > > Good afternoon.
> > > Attached is clarification regarding PSC's testing procedures and copied below:
> >
> > On the incoming loads:
> >
> > Each load will be sampled and tested for the following
> > - Ignitability, pH, reactivity, Rad Screen, and color
> > - The first 2 loads will have PCBs run, we will spot check for PCBs once a week thereafter
> >
> > Each treated load that leaves the facility will be sampled and tested for the following
> > - TCLP Metals, Total VOA, PCBs, and pH
> >
> > Please let me know if you need any additional information.
> > Thanks for your help,
> >
> > Ian Gerencser
> > Environmental Waste Minimization, Inc.
> > 14 Brick Kiln Ct.
> > Northampton, PA 18067
> > 484-275-6955 (direct)
> > 484-788-3293 (cell)

IGerencser@EWMI-Info.com

From: Alana Carroll [mailto:acarroll@integral-corp.com]
Sent: Wednesday, May 28, 2014 12:53 PM
To: Ian Gerencser; Giuliano, Michael
Cc: Kevin McCarty; James Sherrier; Eddie Ferris; echiarelli@newyorkconcrete.com
Subject: RE: PSC - Approvals Package

Ian,

The following paragraph taken from the PSC Package indicates that all material coming to that facility will be sampled for consistency with the preapproved profile. Can you please specify what the material will be analyzed for (e.g. VOCs, SVOCs, PCBs, etc.).

Thank you,
Alana

Upon Arrival at the Facility
When the material is received, the shipping documents are reviewed and material is inspected
and sampled to assure it is consistent with the preapproved profile. Any discrepancies must be
resolved before the material can be accepted and the manifest signed to acknowledge receipt.
Following receipt, the material is managed utilizing different site processes depending on the
characteristics of the material.

Alana Carroll | Managing Scientist
Integral Consulting Inc. | www.integral-corp.com
61 Broadway, Suite 1601 | New York, NY 10006
Direct: 212.440.6706 | Cell: 646.895.1430 | Fax: 212.962.4302

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Ian Gerencser [mailto:igerencser@ewmi-info.com]
Sent: Wednesday, May 28, 2014 9:25 AM
To: Giuliano, Michael
Cc: Kevin McCarty; Alana Carroll; James Sherrier; Eddie Ferris; echiarelli@newyorkconcrete.com
Subject: PSC - Approvals Package

Michael,

PSC Approvals Package attached for review.
Please sign and return page 3 & 4 if possible.

Thanks for your help,

Ian Gerencser
Environmental Waste Minimization, Inc.
14 Brick Kiln Ct.
Northampton, PA 18067

484-275-6955 (direct)
484-788-3293 (cell)
IGerencser@EWMI-Info.com

<5 520 West 28th Street - Acceptance Testing Clarification Email per PSC 5-28-2014.pdf>

Waste Characterization Report

Sales Rep.	Process Code	Reference #	Approval Code
Robert W Jones			

☒ Republic Env. Systems (PA), Inc.
2869 Sandstone Drive **Hatfield, PA** 19440
(215) 822-2676 Fax (215) 997-8219
PAD085690592

☐ Northland Environmental
275 Allens Avenue **Providence, RI** 02905
(401) 781-6340 Fax (401) 781-9710
RID040098352

☐ Chemical Pollution Control
120 S. Fourth St. **Bayshore, NY** 11706
(631) 586-0333 Fax (631) 586-0727
NYD082785429

☐ PSC – Allworth, Inc.
500 Medco Road **Birmingham, AL** 35217
(205) 841-1707 Fax (205) 841-1744
ALD094476793

☐ PSC – Georgia Recovery Systems
8025 Spence Road **Fairburn, GA** 30213
(770) 969-7886 Fax (770) 964-9531
GAR000026088

A Generator Information

E Mail Address:

Generator Name: 28th Highline Associates, LLC. c/o The Related Companies — S.I.C/NAICS Code: — US EPA ID #: NYR000208587

Address (site): 514-520 W 28th Street — City: New York — State: NY — Zip: 10001

Address (mailing): 60 Columbus Circle — City: New York — State: NY — Zip: 10023

Contact: Greg Gusher — Phone: (212) 801-1160 — Fax: — Form Code: W301

B Invoicing Information

Customer Name: EWMI — E Mail Address: AStephens@EWMI-info.com

Address: 14 Brick Kiln Court

City: Northampton — State: PA — Zip Code: 18067

Contact: Arlene Stephens — Phone: 484-275-6900 — Fax: 484-275-6970

C Waste Information

Waste Common Name: RCRA Hazardous Lead Soil

Detailed description of process generating waste. (attach additional sheets if necessary): Excavation activities related to the construction of a new building

D General Information

1. Has laboratory analysis been performed on the waste? ☒ Yes ☐ No — If yes, please attach a copy.
2. Is this waste a commercial product or spill residue? ☐ Yes ☒ No — If yes, please provide MSDS(s)
3. Is a representative sample provided which matches the description on this form? ☒ Yes ☐ No
   a. Where was sample taken? Grid 5 — b. Date sample obtained: 5/1/2014 — c. Sampling device: Excavator
4. Does your company have an approved facilities list? ☐ Yes ☒ No — If yes, please attach a copy.
5. Are there any specific requirements for the disposal of this waste? ☐ Yes ☒ No — If yes, please indicate.

E Regulatory Information

1. Is this a US EPA hazardous waste?	☒ Yes	☐ No	7. Is this waste infectious or medical waste?	☐ Yes	☒ No
2. Is this a state hazardous waste?	☐ Yes	☒ No	8. Is this waste radioactive?	☐ Yes	☒ No
3. Is this waste subject to Categorical Discharge Standards?	☐ Yes	☒ No	9. Is this waste explosive	☐ Yes	☒ No
4. Is this a PCB waste regulated under TSCA?	☐ Yes	☒ No	10. Does this waste contain asbestos?	☐ Yes	☒ No
5. Is this waste generated from a CERCLA cleanup action?	☐ Yes	☒ No	11. Is this waste subject to RCRA subpart CC Regulations? (Contains >500 ppm VOC's by weight)	☐ Yes	☒ No
6. Is this a dioxin bearing waste as per 40 CFR part 261.31?	☐ Yes	☒ No	12. Is this waste subject to benzene NESHAP regulations?	☐ Yes	☒ No

Comments

F Chemical Composition

List all constituents of this waste. (Both hazardous and non hazardous, trade names are not acceptable, ranges must be less than 30%). If any of the below listed constituents are subject to Toxic Release Inventory reporting requirements under 40 CFR, Part 372 please indicate by checking the box marked TRI.

1	Historic Fill/Soil (sand, gravel, ash, brick/concrete sized <18" & < 20% of load	☐ TRI	Range %	100%
2		☐ TRI	Range %	
3		☐ TRI	Range %	
4		☐ TRI	Range %	
5		☐ TRI	Range %	

G Physical Characteristics

Odor: ☒ None ☐ Mild ☐ Strong Description: _____ **Specific Gravity:** ☐ <0.8 ☐ 0.8-1.0 ☒ >1.0 Actual _____

Viscosity: ☐ Low ☐ Medium ☒ High **Layering:** ☐ Single Layer ☐ Multilayered

Flash Point (F) ☐ <70 ☐ 70-100 ☐ 100-140 ☒ >140 Actual _____ **Color:** Brown/Black

pH ☐ <2.0 ☐ 2.01-5.0 ☒ 5.01-9.0 ☐ 9.01-12.49 ☐ >12.50 Actual _____

Reactivity: ☐ Unstable ☐ Water reactive ☐ Cyanides ☐ Sulfides ☒ None **Pumpable?** ☐ Yes ☒ No % Free Liquids 0%

Physical State: ☒ Solid ☐ Liquid ☐ Solid/liquid ☐ Semi-solid ☐ Powder **Fuel Info:** BTU/lb _____ % Halogens _____

H Organics

Results based on ☐ Generator Knowledge ☒ Analysis
Results expressed in ☐ TCLP (mg/l) ☒ Total (mg/kg)

Endrin	☐ <0.02	<0.002	1,2-Dichloroethane	☐ <0.8	<0.006
Lindane	☐ <0.4	<0.002	1,1 Dichloroethylene	☐ <0.7	<0.006
Methoxychlor	☐ <10.0	<0.015	2,4 Dinitrotoluene	☐ <0.13	<0.15
Toxaphene	☐ <0.5	<0.019	Heptachlor	☐ <0.008	<0.002
2,4-D	☐ <10.0	<0.046	Hexachlorobenzene	☐ <0.13	<0.15
Silvex (2,4,5-TP)	☐ <1.0	<0.046	Hexachlorobutidiene	☒ <0.5	
Benzene	☐ <0.5	<0.006	Hexachloroethane	☐ <3.0	<0.15
Carbon Tetrachloride	☐ <0.5	<0.006	Methyl Ethyl Ketone	☐ <200	<0.032
Chlordane	☐ <0.03	<0.022	Nitrobenzene	☐ <2.0	<0.15
Chlorobenzene	☐ <100	<0.006	Pentachlorophenol	☐ <100	<0.26
Chloroform	☐ <6.0	<0.006	Pyridine	☒ <5.0	
O-Cresol	☐ <200	<0.26	Tetrachloroethylene	☐ <0.7	<0.006
M-Cresol	☐ <200	<0.25	Trichloroethylene	☐ <0.5	<0.006
P-Cresol	☐ <200	<0.25	2,4,5 Trichlorophenol	☐ <400	<0.26
Cresol	☐ <200	<0.25	2,4,6 Trichlorophenol	☐ <2.0	<0.15
1,4 Dichlorobenzene	☐ <7.5	<0.006	Vinyl Chloride	☐ <0.2	<0.006

I Heavy Metals

Results based on ☐ Generator Knowledge ☐ Analysis
Results expressed in ☒ TCLP (mg/l) ☐ Total (mg/kg)

Arsenic	☒ <5.0		Selenium	☒ <1.0	
Barium	☒ <100		Silver	☒ <5	
Cadmium	☒ <1		Copper	80mgkg	
Chromium	☒ <5		Nickel	28mgkg	
Lead	☐ <5	7.41	Zinc	298mgk	
Mercury	☒ <0.2		Other		

J Other Components (mg/kg) (ranges are acceptable)

Total Cyanide	<1	Amenable cyanide	<1
Total Sulfide	<100	Reactive Sulfide	<50
Pesticides	see data	Herbicides	see data
Ammonia	see data	Total PCB's	<0.22-11.05
Total HOC's	see data	Total VOC's	see data

K Land Disposal Restrictions

Is this waste subject to land ban restrictions? ☒ Yes ☐ No Is this waste a ☐ Waste water? or ☒ Non-waste water?
Is this waste considered RCRA debris? ☐ Yes ☒ No

Identify all UHC's in this waste: None Identify all waste Subcategories: _____

L DOT Information

Is this waste DOT hazardous? ☒ Yes ☐ No Marine Pollutant? ☐ Yes ☒ No Poison Inhalation Hazard? ☐ Yes ☒ No Zone _____

DOT Shipping Name: RQ, Hazardous Waste Solid, nos Technical Constituents: lead, soil

DOT UN/NA #: NA3077 Hazard Class: 9 Packaging Group: III

EPA/State Hazardous Waste Numbers: D008

M Frequency and Mode of Shipments

Method of shipment: ☐ Bulk liquid ☒ Bulk solid ☐ Drums ☐ Other _____ Container type/size: Triaxle

Volume per shipment: 25 ☐ Gallons ☒ Tons ☐ Drums ☐ Other _____

Frequency: ☐ One time ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly ☒ Other Event

N Pennsylvania Facility Specific Information (to be completed only if waste is destined for a TSDF in PA)

1. If this waste is considered non-regulated, please indicate the appropriate **Pennsylvania Residual Waste Code**, and complete question #2. N/A
2. Describe any source reduction strategies currently in place or being evaluated to reduce the volume of this waste. N/A

O Generator Certification

I hereby certify that the above and attached information is complete and accurate and that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed.

Title: Senior Project Manager Date: 05/29/14

Name: Michael Giuliano as agent for 28TH Highline Associates, LLC Signature: [signature]

P TSD Facility Use Only:

I certify that I have reviewed and am familiar with the information in the application submitted for approval. I believe the information provided herein conforms to the facilities approved waste analysis plan and operating permits.

Title: _____ Date: _____

Name: _____ Signature: _____

To whom it may concern,

This letter has been prepared in response to the questions raised regarding PCB contamination in/from 28th Highline Associates, LLC c/o The Related Companies, Approval Number 640405. The waste is profiled and subsequent testing revealed PCB concentration of 12 ppm.

The waste in question is not a PCB waste and did not come from a TSCA source, transformers or capacitors. We do not have any PCB materials on site greater than 50 ppm and do not anticipate in the near future. The actual source of the PCB's found in the soil is not known. We do not know how the PCB's got into the soil nor where they came from.

Based on the process generating the waste and the fact the 514-520 W 28th St. New York, New York 10001 does not have any PCB materials or equipment on site, the waste will not be regulated as PCB-TSCA waste. Thereby we certify that no known sources of PCB's were mixed in the waste and, therefore, the waste will be managed based on analysis as non-TSCA regulated waste.

Sincerely,

Signature: _____ Date: 05/29/14

as agent for
28th Highline Associates, LLC

PSC Environmental Services Hatfield Facility
2869 Sandstone Drive, Hatfield, PA 19440
EPA ID Number: PAD085690592

P Park NJ
100 Planten Ave.

6/26/2014

Ian Gerenscer
Environmental Waste Minimization, Inc.
14 Brick Kiln Ct
Northampton, PA 18067

Re: 520 West 28th Street Project
514-520 West 28th Street
New York, NY 10001

Dear Ian,

P Park NJ, LLC (P Park) has prepared this Approval Letter for Environmental Waste Minimization, Inc. (EWMI) with regards to material from the above-referenced site. P Park has reviewed the laboratory data you provided and compared it with our current protocols for acceptance. The analytical results were reviewed for the purposes of determining if the material on the subject site is acceptable for placement at P Park located in Prospect Park, NJ.

The analytical results provided support that material from specific portions of the site meet P Park's Clean Fill Protocol. All the analytical results provided, were reviewed and compared to the NJDEP Remediation Standards for Residential Direct Contact Soil Cleanup Criteria and several areas were found to be below the standards. **Acceptance of the specified material is based on the existing data collected at the site and supplied to P Park. It is not predicated on any additional testing.** This approval is based solely upon the information provided on this application and the following documents submitted with this application:

- Impact Environmental Consulting Inc. field sampling report #6422 (4/9/2014).
- Phoenix Environmental Laboratories analytical data report #BG18394 – BG18431 (3/12/2014).
- Site maps indicating boring locations, grids, elevations and proposed excavation areas.

The applicant warrants that the material proposed for shipment to P Park is in fact, the same material which was tested and is represented by the sample results provided with this application. Furthermore, it is our understanding that material encountered within the scope of the 520 West 28th Street project which does not meet P Park NJ, LLC's protocol will be sent to a separate disposal facility permitted to take the material. EWMI further warrants that a proper QA/QC plan will be in place during the excavation and loading of the material to ensure that only approved soils are sent to the P Park facility.

The material approved for import into P Par is identified in the provided data as:

Grid	WC	Depth(bgs)
G-1B	WC-1B	6'ft – 12'ft
G-1C	WC-1C	12'ft – 18'ft
G-1D	WC-1D	12'ft – 24'ft
G-2C	WC-2C	12'ft – 18'ft
G-2D	WC-2D	18'ft – 24'ft
G-3C	WC-2B	12'ft – 18'ft
G-3D	WC-2C	18'ft – 24'ft
G-4B	WC-3B	7'ft – 12'ft
G-4C	WC-3C	12'ft – final grade
G-5B	WC-3B	7'ft – 12'ft
G-5C	WC-3C	12'ft – final grade
G-6B	WC-1B	6'ft – 12'ft
G-6C	WC-1C	12'ft – 18'ft
G-6D	WC-1D	18'ft- 24'ft
G-7C	WC-4C	12'ft – 18'ft
G-8C	WC-4C	12'ft – 18'ft
G-9B	WC-5B	6'ft – 12'ft
G-9C	WC-5C	12'ft – 18'ft
G-10B	WC-5B	6'ft – 12'ft
G-10C	WC-5C	12'ft – 18'ft
G-11D	W6-6D	18'ft – 24'ft
G-12D	WC-6D	18'ft – 24'ft

The total material approval is for 18,525 tons.

P Park NJ LLC's compliance engineers, WCD Consultants reviewed all analytical data and site background information and determined the material profiled meets our current acceptance criteria for approval and placement into the facility. Based upon our review, the results and application have been accepted and given the WCD approval # PPNJ-061814-0152 and P Park has issued the project #14-292.

All deliveries **must** be scheduled in advance with Lori Ripp via email at lripp@pparknj.com .

Please contact me if you have any questions.

Sincerely,

Gary Roth
General Manager
P. Park NJ, LLC

IMPACT ENVIRONMENTAL
170 Keyland Court| Bohemia| NY | 11716 | 631.269.8800
welcome to solid ground…
www.impactenvironmental.com

August 12, 2014

Mr. Ian Gerencser
Environmental Waste Minimization, Inc.
14 Brick Kiln Ct
Northampton, PA 18067

RE: Source: 514-520 W 28th St, New York, NY 10023

Mr. Gerencser:

Impact Environmental Consulting, Inc. is the authorized environmental compliance engineer for the disposal facility at the former NJ Zinc site in Palmerton, PA. As compliance engineer, Impact Environmental reviews analytical data and site background information for site-specific sources to evaluate acceptance of materials into the facility in compliance with the facility permit.

Impact Environmental has reviewed information regarding material from the above referenced site ("site"). The review included an evaluation of the following documents:

- Field Sampling Summary Report, prepared by Impact Environmental dated April 9, 2014
- Field Sampling Plan, prepared by Impact Environmental dated March 6, 2014
- Endpoint Sampling Summary Map, prepared by EWMI dated May 20, 2014
- Field Notes dated July 24, 2014
- Laboratory Reports, prepared by TestAmerica dated April 20 – May 23 and July 30, 2014

The analytical data subject to the reports was reviewed and compared with the facility permit requirements. Soils represented by the following sample ID's are acceptable and approved for reuse at the NJ Zinc – West Plant site:

Composite Samples	**VOCs Samples**	
WC-1B	G-1B Grab	G-6B Grab
WC-6B	G-11B Grab	G-12B Grab
Petroleum Stockpile Comp		

The material meets the definition of Regulated fill as defined in General Permit No. WMGR096. Soil will be accepted and managed in accordance with facility permits. Please feel free to contact me with any questions.

Sincerely,
IMPACT ENVIRONMENTAL

Richard Parrish
President