

From: [Arakhan, Samsudeen K \(DEC\)](#)
To: [Menz, Donald](#)
Cc: [Brezner, Kenneth B. \(DEC\)](#); "dluu@h2m.com"; [Smita Day](#); [Cuervo, Juan \(DDC\)](#); [Dolinar, Sarah](#); varnold@dny.nyc.gov; [Kallman, Holly](#); [Balarezo, Michael](#); [Bogatyrev, Viktor](#); [Saadi, Nabil](#); [Assi, Mahmoud \(DEC\)](#); [Farnan, Joseph L \(DEC\)](#)
Subject: RE: SW Brooklyn Lead Delineation Sample Results
Date: Friday, May 01, 2015 9:32:39 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Donald:

DEC staff have reviewed the hazardous waste delineation report, dated April 30, 2015, which was transmitted by your Letter No. 074. DEC staff agree with the proposed approach for contaminated soil removal and disposal, i.e., at a minimum, the contractor will remove and properly dispose of all soils within the limits of areas, shown on page 3 of the report, to a depth of eight feet; further, the excavated areas will be immediately refilled with gravel.

Please do not hesitate to contact me if you have any question.

Sam

Samsudeen K Arakhan, P.E.

Regional Solid Materials Engineer, Division of Materials Management
New York State Department of Environmental Conservation

47-40 21st Street, Long Island City, NY 11101

P: (718) 482-4894 | F: (718) 482-6391 | samsudeen.arakhan@dec.ny.gov

www.dec.ny.gov |  | 

From: Menz, Donald [<mailto:Menzd@liro.com>]
Sent: Thursday, April 30, 2015 2:54 PM
To: Arakhan, Samsudeen K (DEC)
Cc: [Brezner, Kenneth B. \(DEC\)](#); "dluu@h2m.com"; [Smita Day](#); [Cuervo, Juan \(DDC\)](#); [Dolinar, Sarah](#); varnold@dny.nyc.gov; [Kallman, Holly](#); [Balarezo, Michael](#); [Bogatyrev, Viktor](#); [Saadi, Nabil](#)
Subject: SW Brooklyn Lead Delineation Sample Results

Sam:

Please see the attached report which presents the lead delineation sample results and our proposed approach going forward. Any questions/comments, please advise.

Thanks.

Donald Menz, P.E.

Project Manager



Program/Construction Managers | Engineers | Architects

111 Broadway, Suite 501 | New York, New York | 10006

917-983-5607 [Field] | 973-715-7537 [M]

212-563-0280 [NY Office] | 212-563-1841 [NYO Fax] | www.liro.com



April 30, 2015

Mr. Samsudeen K. Arakhan, P.E.
Regional Solid Materials Engineer
New York State Dept. of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101

URS/LiRo JV Letter: 074

Re: SW Brooklyn Marine Transfer Station (Block 6943 Lot Part of 30)

Subject: Hazardous Waste Delineation Sampling Summary Report, Tests of Soil for Lead

Dear Mr. Arakhan:

Reference is made to our Letter No. 057 dated March 13, 2015, which transmitted to the NYS DEC a Hazardous Lead Delineation Plan for the three (3) soil grids (WC-51, WC-52, and WC-56) at the SW Brooklyn Marine Transfer Station Project Site.

Pursuant to the letter and Delineation Plan referenced above, please find attached a Hazardous Waste Sampling Summary Report from Impact Environmental dated April 20, 2015. The Report identifies the results of the additional sampling that was performed in order to define the limits of elevated levels of lead in the three grids that were previously identified.

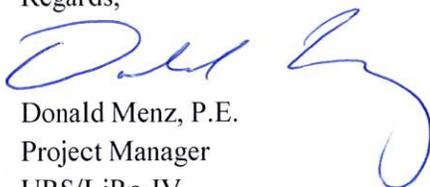
Per the Site Plan presented on Page 3 of this Report, test results indicated that the elevated levels of lead were limited to a distance of 5 and 10 feet from the original grid samples taken.

It is proposed that the Contractor will, as a minimum, remove and properly dispose of all of the soil within the limits of the areas indicated on Page 3 to a depth of eight feet. It is further proposed that the excavated area will immediately be re-filled with gravel. This will remove any soil of concern from the Project site and enable upcoming project work to be performed in this area unimpeded.

You are requested to review the attached Report and advise if you concur with the proposed approach for removal and disposal.

If you require any additional information, please do not hesitate to contact us.

Regards,



Donald Menz, P.E.
Project Manager
URS/LiRo JV

Attachments:

1. Prismatic Email dated 04/20/2015 with a copy of Impact Environmental's Lead Delineation Sampling Summary Report dated April 20, 2015.

Cc:

K. Brezner – NYS DEC
S. Day, D. Luu, H2M
J. Cuervo, - DDC
S. Dolinar, V. Arnold, H. Kallman – DSNY
M. Balarezo, V. Bogatyrev - URS/LiRo

Menz, Donald

From: Grant MacDonald <gmacdonald@prisdev.com>
Sent: Monday, April 20, 2015 5:57 PM
To: Menz, Donald; 'Balarezo, Michael'; Bogatyrev, Viktor; Lovaglio, Steven
Cc: Brian Theiss; Mike Cortese; Richard Tonnesen; Pete Lodato; Renee Palmer; Tom Zimmermann
Subject: FW: Brooklyn MTS Haz Delineation Report & Request for Removal Direction
Attachments: Brooklyn MTS Haz Delineation Report.pdf

Don,

Please see the attached results from the delineation sampling plan to determine the limits of the lead hazardous waste. The results give these limits and therefore the scope and amount of the removals. We need written direction on how to proceed with these removals, presumably starting thru the Hazardous Waste allowance. Time is of the essence with these removals since this area includes the piles and foundations for the Ramp structure. Please get back to us on this.

Grant Macdonald, P.E.
Project Manager

Prismatic Development Corp.

SW Brooklyn Marine Transfer Station
1824 Shore Parkway (Enter at 25th Ave)
Brooklyn, NY 11214
Phone: 914-458-3110 Direct Fax: 866-243-4284
Cell: 973-445-2900

From: Xin Yuan [mailto:xyuan@impactenvironmental.com]
Sent: Monday, April 20, 2015 5:31 PM
To: Grant MacDonald
Cc: Douglas Birkmire
Subject: Brooklyn MTS Haz Delineation Report

Grant, attached please find results of 11 samples that complete the delineation. Any question, please feel free to let me know.

Thank you.

Xin Yuan
Environmental Analyst

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

Corporate Headquarters



April 20, 2015

Grant McDonald
Prismatic Development
400 Bay 41st Street
Brooklyn, NY 11214

RE: IMP #7336-01-01-1001
SW Brooklyn Marine Transfer Station, Brooklyn, NY
Hazardous Waste Delineation Sampling Summary Report

Dear Mr. McDonald:

We prepared this Hazardous Waste Delineation Sampling Summary Report (HWDSSR) for the Southwest Brooklyn Marine Transfer Station Project (project) located at 400 Bay 41st Street, Brooklyn, NY 11214 (site). The Project involves the redevelopment of the Site into a marine waste transfer station. This HWDSSR documents hazardous lead delineation sampling completed by Impact Environmental Consulting, Inc. (Impact) and includes a description of sampling methodology, a presentation of sample results and related conclusions. The purpose of the report is to provide information to help evaluate construction costs related to the management and disposal of excess soil generated during construction, and to comply with The Resource Conservation and Recovery Act (RCRA) and other applicable federal, state and local laws.

SAMPLING METHODOLOGY

Impact mobilized a track-mounted Geoprobe 6610DT to the site on April 8, 9 and 10, 2015 to construct soil borings and collect delineation samples for waste characterization grid WC51, WC52 and WC56 (Figure 1, Hazardous Lead Delineation Results). The initial waste characterization samples for WC51, WC52 and WC56 exceeded the RCRA hazardous waste limit for lead; therefore, two rounds of step-out samples (5 foot and 10 foot offset) were collected surrounding the initial waste characterization sample locations until samples were obtained for which the analytical data were below the RCRA hazardous waste limit for lead. All delineation samples were collected from the depth interval corresponding to the depths of the initial waste characterization samples that exceeded the RCRA hazardous waste limit for lead.

A total of 11 samples were submitted to Phoenix Environmental Laboratories, Inc. (587 Middle Turnpike E, Manchester, CT 06040) for total and Toxicity characteristic leaching procedure (TCLP) lead analysis (method SW6010C).

RESULTS

The results are summarized in Table 1 and compared against RCRA hazardous waste limit for lead. All reported concentrations of lead are below the RCRA hazardous waste limit (5 milligrams per liter [mg/L]) except for WC56D5. WC56D5 has a TCLP lead concentration of 6.4 mg/L, which exceeds the RCRA hazardous waste limit.

In general, a 3-4 foot-thick historic fill layer was observed underneath the pavement, underlain by materials consisting of fine to coarse light brown sand. This observation is in agreement with previous findings.

CONCLUSIONS

The hazardous waste lead in WC51, WC52 and WC56 was delineated to the north, west, south and east of the initial waste characterization sample locations. Materials within the extent of hazardous waste must be managed and disposed of as RCRA characteristic hazardous lead waste (**Figure 1**, Hazardous Lead Delineation Results).

CLOSING

Should you have any questions regarding the findings presented in this report, please feel free to call us at 631-269-8800.

Sincerely,

IMPACT ENVIRONMENTAL

A handwritten signature in black ink, appearing to read 'Xin Yuan', followed by a horizontal line.

Xin Yuan

Senior Environmental Analyst

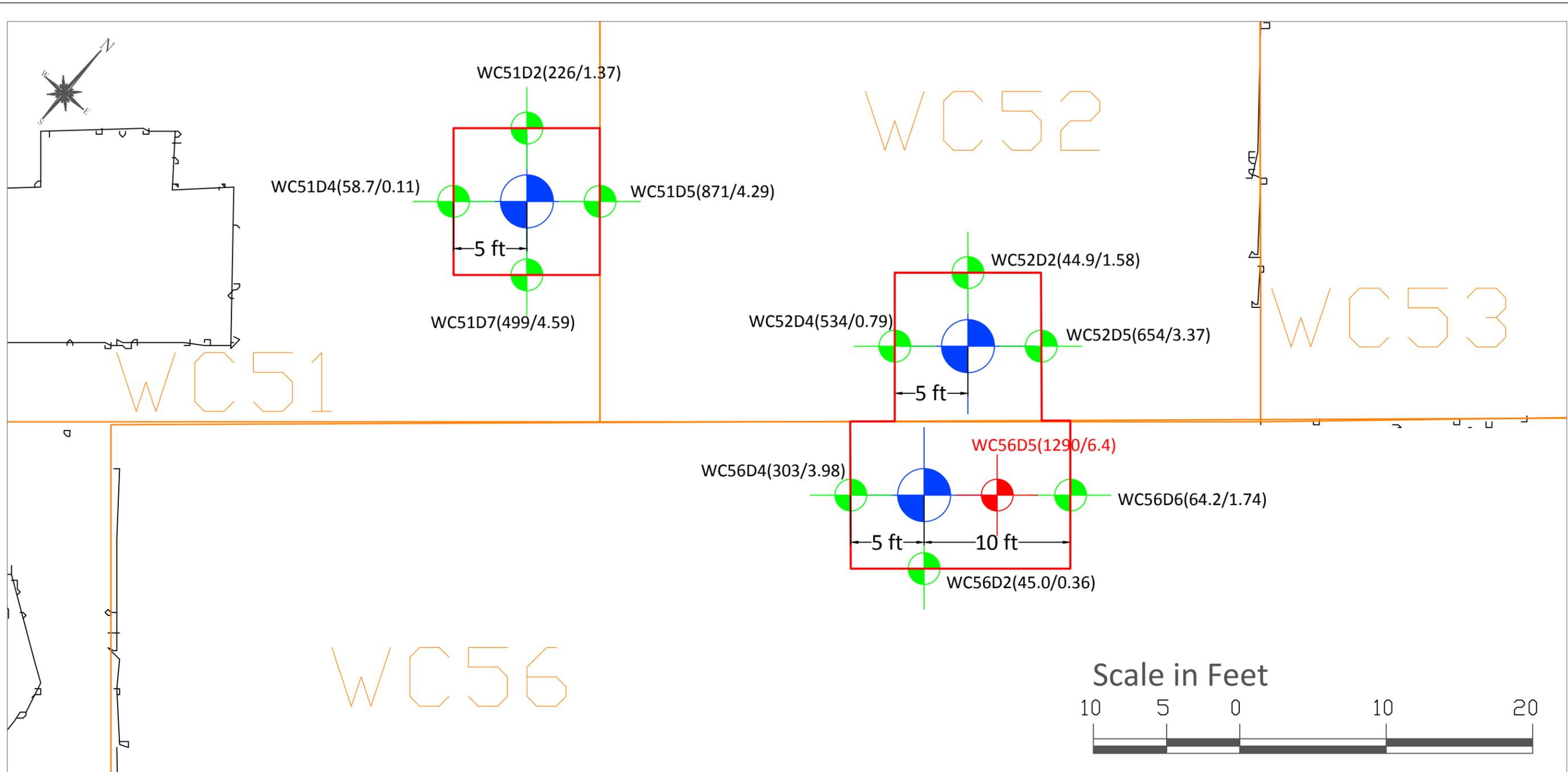
Enclosures:

Figure 1: Hazardous Lead Delineation Results

Table 1: Summary of Delineation Results

Attachment 1: Soil Boring Logs

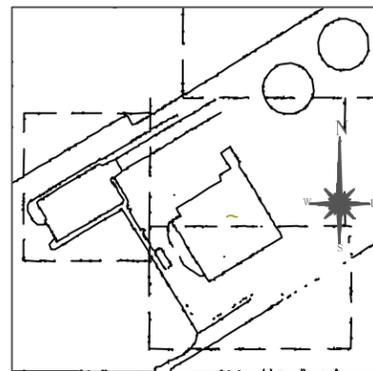
Attachment 2: Laboratory Analytical Reports



Legend

-  Initial Waste Characterization Sample Location
-  Waste Characterization Grid
-  Extent of Hazardous Waste
-  Delineation Sample Location (mg/kg total lead/mg/L TCLP lead)

WC56D1(64.2/1.74)



TITLE: Hazardous Lead Delineation Results <i>Southwest Brooklyn Marine Transfer Station</i> 1824 Shore Parkway Brooklyn, New York	DRAWN BY:	XY	PROJECT #	7336
	CHECKED BY:	RP	FIGURE #	1
	DATE:	04/20/2015		
	SCALE:			
			IMPACT ENVIRONMENTAL 170 KEYLAND COURT BOHEMIA, NEW YORK 11716 TEL (631) 269-8800 FAX (631) 269-1599	



Table 1: Summary of Delineation Results

Southwest Brooklyn Marine Transfer Station Project

Parameter Name	TCLP Hazardous Waste Regulatory Levels	BH99977		BH99978		BH99979		BH99980		BJ00627		BJ00628	
Sample ID		WC 56 D2		WC 56 D5		WC 56 D4		WC 52 D2		WC 52 D4		WC 52 D5	
Collection Date		4/8/2015		4/8/2015		4/8/2015		4/8/2015		4/9/2015		4/9/2015	
		Result	MDL										
Lead, TCLP (mg/L)	5	0.36	0.010	6.4	0.010	3.98	0.010	1.58	0.010	0.79	0.010	3.37	0.010
Lead, Total (mg/kg)	NA	45	0.36	1290	4.0	303	3.5	44.9	0.37	534	3.4	654	3.4

Parameter Name	TCLP Hazardous Waste Regulatory Levels	BJ00629		BJ00630		BJ00946		BJ00947		BH99985	
Sample ID		WC 51 D7		WC 51 D5		WC 51 D4		WC 51 D2		WC 56 D6	
Collection Date		4/9/2015		4/9/2015		4/10/2015		4/10/2015		4/8/2015	
		Result	MDL	Result	MDL	Result	MDL	Result	MDL	Result	MDL
Lead, TCLP (mg/L)	5	4.59	0.010	4.29	0.010	0.11	0.010	1.37	0.010	1.74	0.01
Lead, Total (mg/kg)	NA	499	3.6	871	3.3	58.7	0.34	226	3.5	64.2	3.7

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram (ppm)
 MDL = Minimum Detection Limit
 NA = Not Applicable

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC51D2	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/10/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>8'</u> Depth to Water: <u>7'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					4 ft.	1 ft. Asphalt & gravel	
2	0.0						2 ft. Dark brown sand w/brick & gravel	
3	0.0						1ft. Light brown sand	
4	0.0							
5	0.0				3 ft.	1 ft. Dark brown sand w/gravel		
6	0.0						2.5 ft. Light brown sand	
7	0.0						End of Boring	
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC51D4	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/10/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>8'</u> Depth to Water: <u>7'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					5 ft.	1 ft. Asphalt & gravel	
2	0.0						2.5 ft. Dark brown sand w/brick, gravel, and trace ash	
3	0.0						1.5 ft. Light brown sand	
4	0.0							
5	0.0							
6	0.0				3 ft.	6 inches Dark brown sand		
7	0.0					2.5 ft. Light brown sand		
8	0.0					End of Boring		
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC51D5	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/9/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>8'</u> Depth to Water: <u>7'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					5 ft.	6 inches of Asphalt	
2	0.0						3 ft. Dark brown sand w/gravel, trace ash, and wood	
3	0.0						1.5 ft. Light brown sand w/gravel	
4	0.0							
5	0.0							
6	0.0				3 ft.	Light brown sand		
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8	0.0						End of Boring	
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC51D7	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/9/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>8'</u> Depth to Water: <u>7'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					4 ft.	6 inches of Asphalt & gravel	
2	0.0						2 ft. Dark brown sand w/brick and trace ash	
3	0.0						1.5 ft. Light brown sand w/trace brick	
4	0.0							
5	0.0							
6	0.0					3 ft.	1 ft. Dark brown sand	
7	0.0						2 ft. Light brown sand	
8	0.0						End of Boring	
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC52D2	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/8/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: 7.5' Depth to Water: N/A		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					4 ft.	6 inches Asphalt and gravel 6 inches Dark brown sand 6 inches Concrete/rock	
2	0.0						1 ft. Dark brown sand	
3	0.0							
4	0.0						1.5 ft. Light brown sand	
5	0.0							
6	0.0				2.5 ft.	1 ft. Gravel and Dark brown sand		
7	0.0						1.5 ft. Light brown sand	
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC52D4	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/9/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: 7.5' Depth to Water: N/A		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					5 ft.	6 inches Asphalt 6 inches Gravel	
2	0.0						2 ft. Dark brown sand w/Gravel, trace wood, and ash	
3	0.0							
4	0.0						2 ft. Light brown sand w/gravel	
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6	0.0					0 ft.		End of Boring
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC52D5	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/9/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: 7.5' Depth to Water: N/A		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					4 ft.	6 inches Asphalt 6 inches Gravel	
2	0.0						2 ft. Dark brown sand w/Gravel, trace wood, and ash	
3	0.0							
4	0.0						1 ft. Light brown sand w/gravel	
5	0.0						Light brown sand	
6	0.0				.5 ft		End of Boring	
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TRACE = 1 - 10% LITTLE = 11 - 20% SOME = 21 - 35% AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC56D2	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/8/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>9'</u> Depth to Water: <u>7'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
0	0.0						6 inches Asphalt and gravel	
1	0.0						1 ft. Dark brown sand w/gravel	
2	0.0					4 ft.	Light brown sand	
3	0.0							
4	0.0							
5	0.0							
6	0.0					4 ft.	Light brown sand w/gravel	
7	0.0							
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9	0.0						End of Boring	
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TRACE = 1 - 10%

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SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC56D4	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/8/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>9'</u> Depth to Water: <u>8'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
0	0.0						6 inches Asphalt	
1	0.0					5 ft.	2 ft. Dark brown sand w/trace brick	
2	0.0						Light brown sand w/gravel	
3	0.0							
4	0.0							
5	0.0							
6	0.0					4 ft.	Light brown sand w/gravel	
7	0.0							
8	0.0							
9	0.0						End of Boring	
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC56D5	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/8/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: <u>9'</u> Depth to Water: <u>8'</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
—	0.0					4 ft.	6 inches Asphalt	
1	0.0						1 ft. Gravel	
2	0.0						Dark brown sand w/gravel, trace ash, brick, wood, and glass	
3	0.0							
4	0.0							
5	0.0					4 ft.	Light brown sand w/gravel	
6	0.0							
7	0.0							
8	0.0							
9	0.0						End of Boring	
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TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %

SOIL BORING LOG

Client: Prismatic Development Corp.	Boring No.: WC56D6	Impact Environmental 170 Keyland Court Bohemia, NY 11217 (631) 269-8800
Project #: 7336	Sheet 1 of 1	
Site Location: SW Marine Transfer Station, Brooklyn, NY	Date: 4/8/2015	
Drilling Co: Impact Environmental	<i>FORMAT FOR CHARACTERIZATION</i>	
Method: Direct Push	Ex.1: brown, loose F SILTY-SAND, with some C Gravel	
Personnel: Blake Kimbro, Xin Yuan	Ex.2: grey & brown mottled soft CLAY and brown F SAND, with trace organics	
Total Sample Depth: 9' Depth to Water: 8'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery (inches)	Soil Classification	Remarks
1	0.0					4 ft.	1 ft. Asphalt and gravel	
2	0.0						2 ft. Dark brown sand w/gravel and trace brick	
3	0.0						1 ft. Light brown sand	
4	0.0							
5	0.0							
6	0.0				4 ft.	Light brown sand w/gravel		
7	0.0							
8	0.0							
9	0.0						End of Boring	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20%

SOME = 21 - 35%

AND = 36 - 50 %



Thursday, April 16, 2015

Attn: Xin Yuan
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Project ID: SW MTS
Sample ID#s: BH99977 - BH99980, BH99985

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

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

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

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

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report

April 16, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

04/08/15
 04/08/15

Time

7:30
 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99977

Project ID: SW MTS
 Client ID: WC 56 D2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	45.0	0.36	0.36	mg/Kg	1	04/10/15	LK	SW6010C
TCLP Lead	0.36	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	89			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

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

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

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 16, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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

Analysis Report

April 16, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

Time

04/08/15 8:00
 04/08/15 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99978

Project ID: SW MTS
 Client ID: WC 56 D5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	1290	4.0	4.0	mg/Kg	10	04/13/15	LK	SW6010C
TCLP Lead	6.40	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	85			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

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

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Phyllis Shiller, Laboratory Director

April 16, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



Environmental Laboratories, Inc.
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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 16, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

Time

04/08/15 8:30
 04/08/15 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99979

Project ID: SW MTS
 Client ID: WC 56 D4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	303	3.5	3.5	mg/Kg	10	04/13/15	LK	SW6010C
TCLP Lead	3.98	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	91			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

April 16, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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

Analysis Report

April 16, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

04/08/15
 04/08/15

Time

9:00
 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99980

Project ID: SW MTS
 Client ID: WC 52 D2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	44.9	0.37	0.37	mg/Kg	1	04/10/15	LK	SW6010C
TCLP Lead	1.58	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	93			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

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

April 16, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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

Analysis Report

April 16, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

04/08/15
 04/08/15

Time

11:30
 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99985

Project ID: SW MTS
 Client ID: WC 56 D6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	64.2	3.7	3.7	mg/Kg	10	04/14/15	LK	SW6010C
TCLP Lead	1.74	0.10	0.010	mg/L	1	04/14/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/14/15	I/I	SW3005A
Percent Solid	90			%		04/13/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/13/15	I	SW1311
Total Metals Digest	Completed					04/13/15	CB/AG	SW3050B

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

April 16, 2015

Reviewed and Released by: Kathleen Cressia, QA/QC Officer



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



QA/QC Report

April 16, 2015

QA/QC Data

SDG I.D.: GBH99977

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 303936 (mg/kg), QC Sample No: BH99686 (BH99977, BH99978, BH99979, BH99980)													
<u>ICP Metals - Soil</u>													
Lead	BRL	0.33	61.4	66.2	7.50	98.3	100	1.7	99.1	98.7	0.4	75 - 125	30
QA/QC Batch 303980 (mg/L), QC Sample No: BH99947 (BH99977, BH99978, BH99979, BH99980)													
<u>ICP Metals - TCLP Extraction</u>													
Lead	BRL	0.10	0.02	0.02	NC	108	109	0.9	108	105	2.8	75 - 125	20
QA/QC Batch 304357 (mg/L), QC Sample No: BJ00852 (BH99985)													
<u>ICP Metals - TCLP Extraction</u>													
Lead	BRL	0.10	2.72	3.37	21.3	106	108	1.9	104	111	6.5	75 - 125	20
QA/QC Batch 304447 (mg/kg), QC Sample No: BJ01353 (BH99985)													
<u>ICP Metals - Soil</u>													
Lead	BRL	0.30	3.49	3.73	6.60	90.5	88.4	2.3	88.8	87.6	1.4	75 - 125	30

r = This parameter is outside laboratory rpd specified recovery limits.

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

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


 Phyllis Shiller, Laboratory Director
 April 16, 2015

Sample Criteria Exceedences Report

GBH99977 - IMPACT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BH99978	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	6.40	0.10	5	5	mg/L

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



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



NY Temperature Narration

April 16, 2015

SDG I.D.: GBH99977

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Yanling Phoenix

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 1 of 2



LAB NAME: Phoenix

RECEIVED DATE:

Client Information			Project Information			Analytical Information			Matrix Codes					
Company Name Impact Environmental Address 170 Keyland Court City Bohemia Project Contact Xin Yuan Phone # 631-269-8800 Fax # 631-269-1599 E-mail xyuan@impactenvironmental.com			Project Name SW MTS Street 1820 Shore Parkway City Brooklyn Project # 7336 Sampler's Name Xin Yuan Sampler's Signature <i>Xin Yuan</i>			VOC 8260 (Analyte List for NY Part 375 and NJ NRDC) Impact Analytical Package C** Impact Analytical Package B** Impact Analytical Package A*			L - Liquid S - Soil A - Air OL - Oil W - Wipe PC - Paint Chips SL - Sludge SD - Solid DW - Drinking Water DISS - Dissolved Sample Type G - Grab C - Composite B - Blank (LAB USE ONLY) 99977 99978 99979 99980 99981 99982 99983 99984 99985 99986					
Sample Information			Sample Collection			Sample Containers			REFERENCES					
SAMPLE # (LAB USE ONLY)	Sample ID	IEC Project Code	Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	Number of Each Preserved Bottle	OTHER*	IC	HQ	Metalist (USEPA 5053)	Sodium Bisulfate (EPA 5053)	
1	WC56D2		S	C	4/8	7:30	1							
2	WC56D5					8:00								
3	WC56D4					8:30								
4	WC52D3					9:00								
5	WC52D1					9:30								
6	WC52D7					10:00								
7	WC56D1					10:30								
8	WC56D9					11:00								
9	WC56D6					11:30								
10	WC56D8					12:00								
*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and detection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary)- Same as Package B plus RCRA characteristics and Full TCLP														
(LAB USE ONLY) Turnaround Time (Business Days) <input type="checkbox"/> Standard - 5 day <input type="checkbox"/> Standard - 4 day <input checked="" type="checkbox"/> Standard - 3 day Rush Service <input type="checkbox"/> 48 Hour RUSH <input type="checkbox"/> 24 Hour RUSH														
Data Deliverable Information <input type="checkbox"/> Results Only (Level-1) <input type="checkbox"/> Results plus Misc. QC (Level-2) <input type="checkbox"/> Results plus ALL QC (Level-3) <input type="checkbox"/> PA QC Package <input type="checkbox"/> NJ QC Package (LevaGN) (EDD Formats: Excel, pdf, EQUIS, xls, gisKEY, SPDES, ASCII, TAGM, OEN) <input type="checkbox"/> CLP Category A (Level-2) <input type="checkbox"/> CLP Category B (Level-4) <input type="checkbox"/> ASP QC Package (Level-4) <input type="checkbox"/> Other <input checked="" type="checkbox"/> EDD Format <i>pdf + excel</i>														
Sample custody must be documented below, each time samples change possession, with a signature, date, and time.														
Relinquished by Sampler: 1 <i>[Signature]</i> Relinquished by: 3 <i>[Signature]</i> Relinquished by: 5 <i>[Signature]</i>			Date / Time: 1 4/8 2:00 Date / Time: 3 4/8 5:15 Date / Time: 5			Relinquished by: 2 <i>[Signature]</i> Relinquished by: 4 <i>[Signature]</i>			Date / Time: 2 4-8-11 Date / Time: 4			Received By: 2 Received By: 4 COOLER INFORMATION Cooler Temp: <input type="checkbox"/> On Ice <input type="checkbox"/> Sample Receipt Discrepancy (attach information)		

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel) 631-269-8800 (Fax) 631-269-1599

Page 2 of 2



LAB NAME: *Phoebix*

RECEIVED DATE:

Client Information			Project Information			Analytical Information			Matrix Codes		
Company Name Impact Environmental			Project Name SW MTS			VOC 8260 (Analyte List for NY Part 375 and NJ NRDC)			L - Liquid		
Address 170 Keyland Court			Street 1820 Shore Parkway			Impact Analytical Package B **			S - Soil		
City Bohemia			City Brooklyn			Impact Analytical Package C ***			A - Air		
Project Contact Xih Yuan			Project # 7336			Impact Analytical Package A *			OL - Oil		
Phone # 631-269-8800			Fax # 631-269-1599			VOCs 8260 (CP51 Analyte List)			W - Wipe		
E-mail xian@impactem.com			Sampler's Name Xih Yuan			GP82 Analysis			PC - Paint Chips		
E-mail xian@impactem.com			Sampler's Signature <i>Xih Yuan</i>			VOCs 8260 (CP51 Analyte List)			ST - Sludge		
Sample Information			Sample Collection			REFERENCES			DW - Drinking Water		
Sample ID			Matrix Code			*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and detection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary)-Same as Package B plus RCRA characteristics and Full TCLP			DISS - Dissolved		
1 WC56 D3			S			NOTES/COMMENTS:			Sample Type		
2 WC56 D7			S			CLP Category A (Level-2)			G-Grab		
3						CLP Category B (Level-4)			C-Composite		
4						ASP QC Package (Level-4)			B-Blank		
5						PA QC Package			(LAB USE ONLY)		
6						NJ QC Package (Level 3U)			99957		
7						(EDD Formats: Excel, pdf, EQUIS, GIS, GISKEY, SPDES, Ascd, TAGN, OEN)			99958		
8						Results Only (Level-1)					
9						Results plus Misc. QC (Level-2)					
10						Results plus ALL QC (Level-3)					
						PA QC Package					
						Other					
						EDD Format: <i>excel+pdf</i>					
						Turnaround Time (Business Days)					
						(LAB USE ONLY)					
						TAT Approved By / Date:					
						Standard - 5 day					
						Standard - 4 day					
						Standard - 3 day					
						Rush Service					
						48 Hour RUSH					
						24 Hour RUSH					
Relinquished by Sampler:			Date / Time:			Received By:			Date / Time:		
1 <i>[Signature]</i>			1 4/8/15 2:00			1 <i>[Signature]</i>			2 4/8/15		
Relinquished by:			Date / Time:			Received By:			Date / Time:		
3 <i>[Signature]</i>			3 4/8/15 12:34			4 <i>[Signature]</i>			4		
Relinquished by:			Date / Time:			Received By:			Date / Time:		
5			5			5			4		
Cooler Temp:			pH:			Cooler Information					
						<input type="checkbox"/> On Ice <input type="checkbox"/> Sample Receipt Discrepancy (attach information)					

Loreen - Phoenixlabs

From: Michael - Phoenixlabs [michael@phoenixlabs.com]
Sent: Monday, April 13, 2015 4:02 PM
To: 'Loreen - Phoenixlabs'
Cc: 'Bobbi - Phoenixlabs'
Subject: FW: Results

Loreen:

Please see the below from Xin, our ID is 99985. Standard TAT. Thank you.

Regards,
Michael Lapman
Account Manager
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
T-860-812-0086 / C-917-449-0850 / F-860-645-0823
www.phoenixlabs.com



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From: Xin Yuan [mailto:xyuan@impactenvironmental.com]
Sent: Monday, April 13, 2015 3:50 PM
To: Michael - Phoenixlabs
Cc: Douglas Birkmire
Subject: RE: Results

Thanks Michael. Can you please start analyzing WC56D6 for total and tclp Pb? It was picked up on the 8th too.

Xin

From: Michael - Phoenixlabs [mailto:michael@phoenixlabs.com]
Sent: Monday, April 13, 2015 3:47 PM
To: Xin Yuan
Cc: Douglas Birkmire
Subject: Results

Attached.....

Regards,
Michael Lapman
Account Manager



Tuesday, April 14, 2015

Attn: Xin Yuan
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Project ID: SW MTS 1820 SHORE PARKWAY
Sample ID#s: BJ00946 - BJ00947

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

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

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

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

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report

April 14, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOIL
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: B
 Analyzed by: see "By" below

Date

04/10/15
 04/10/15

Time

7:30
 15:32

Laboratory Data

SDG ID: GBJ00946
 Phoenix ID: BJ00946

Project ID: SW MTS 1820 SHORE PARKWAY
 Client ID: WC51D4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	58.7	0.34	0.34	mg/Kg	1	04/11/15	LK	SW6010C
TCLP Lead	0.11	0.10	0.010	mg/L	1	04/13/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/13/15	I/I	SW3005A
Percent Solid	94			%		04/10/15	i	SW846-%Solid
TCLP Extraction for Metals	Completed					04/10/15	I	SW1311
Total Metals Digest	Completed					04/10/15	CB/AG	SW3050B

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

April 14, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

April 14, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOIL
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: B
 Analyzed by: see "By" below

Date

04/10/15
 04/10/15

Time

8:00
 15:32

Laboratory Data

SDG ID: GBJ00946
 Phoenix ID: BJ00947

Project ID: SW MTS 1820 SHORE PARKWAY
 Client ID: WC51D2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	226	3.5	3.5	mg/Kg	10	04/13/15	LK	SW6010C
TCLP Lead	1.37	0.10	0.010	mg/L	1	04/13/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/13/15	I/I	SW3005A
Percent Solid	93			%		04/10/15	i	SW846-%Solid
TCLP Extraction for Metals	Completed					04/10/15	I	SW1311
Total Metals Digest	Completed					04/10/15	CB/AG	SW3050B

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

Comments:

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

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

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 14, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



QA/QC Report

April 14, 2015

QA/QC Data

SDG I.D.: GBJ00946

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 304268 (mg/kg), QC Sample No: BH99667 (BJ00946, BJ00947)													
<u>ICP Metals - Soil</u>													
Lead	BRL	0.30	5.79	4.83	18.1	99.8	99.8	0.0	97.5	98.1	0.6	75 - 125	30
QA/QC Batch 304355 (mg/L), QC Sample No: BJ00944 (BJ00946, BJ00947)													
<u>ICP Metals - TCLP Extraction</u>													
Lead	BRL	0.010	0.233	0.227	2.60	108	111	2.7	104	105	1.0	75 - 125	20

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

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


 Phyllis Shiller, Laboratory Director
 April 14, 2015

Sample Criteria Exceedences Report

GBJ00946 - IMPACT

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

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



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



NY Temperature Narration

April 14, 2015

SDG I.D.: GBJ00946

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599



LAB NAME: Phoenix

RECEIVED DATE:

Page 1 of 1

Client Information			Project Information				Analytical Information				Matrix Codes	
Company Name Impact Environmental Address 170 Keyland Court City Bohemia Project Contact <u>Xin Yuan</u> Phone # 631-269-8800 Fax # 631-269-1599 E-mail <u>Xyuan@impactenvironmental.com</u>			Project Name <u>SW MTS</u> Street <u>1820 Shore Parkway</u> City <u>Brooklyn</u> State <u>NY</u> Zip <u>7336</u> Sampler's Name <u>Xin Yuan</u> Sampler's Signature <u>[Signature]</u>				VOC 8260 (Analyte List for NY Part 375 and NJ NRDCC) Impact Analytical Package C *** Impact Analytical Package B ** Impact Analytical Package A *				L - Liquid S - Soil A - Air OL - Oil W - Wipe PC - Paint Chips SL - Sludge SD - Solid DW - Drinking Water DISS - Dissolved Sample Type G - Grab C - Composite B - Blank (LAB USE ONLY)	
SAMPLE #	LAB	Sample ID	Sample Collection			Sample Containers				VOCs 8260 (CP51 Analyte List)	GP82 Analysis	(LAB USE ONLY)
			Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	OTHER	ICE			
1		WC51P4	S		4/10	7:30	1					00946
2		WC51P2	I		8:00	1						00947
3		WC51P1	I		8:45	1						00948
4		WC51P3	I		9:30	1						00949
5												
6												
7												
8												
9												
10												

Standard Service (LAB USE ONLY)
 Standard - 5 day
 Standard - 4 day
 Standard - 3 day
 Rush Service
 48 Hour RUSH
 24 Hour RUSH

Turnaround Time (Business Days)
 (LAB USE ONLY)
 TAT Approved By / Date:

REFERENCES
 *Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and detection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary)- Same as Package B plus RCRA characteristics and Full TCLP

NOTES / COMMENTS:

Relinquished by sampler: Xin Yuan
 Date / Time: 14/10 10:00
 Relinquished by: [Signature]
 Date / Time: 3
 Relinquished by: [Signature]
 Date / Time: 5

Relinquished by: [Signature]
 Date / Time: 2 4:05
 Relinquished by: [Signature]
 Date / Time: 4 4/10 5:15
 Relinquished by: [Signature]
 Date / Time: 5 15:32

COOLER INFORMATION
 On Ice Sample Receipt Discrepancy (attach information)
 pH: _____ Cooler Temp: _____



Monday, April 13, 2015

Attn: Xin Yuan
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Project ID: SW MTS
Sample ID#s: BJ00627 - BJ00629, BJ00638

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

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

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

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

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOIL
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: LB
 Analyzed by: see "By" below

Date Time
 04/09/15 7:00
 04/09/15 17:02

Laboratory Data

SDG ID: GBJ00627
 Phoenix ID: BJ00627

Project ID: SW MTS
 Client ID: WC52D4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	534	3.4	3.4	mg/Kg	10	04/11/15	LK	SW6010C
TCLP Lead	0.79	0.10	0.010	mg/L	1	04/11/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/10/15	I/I	SW3005A
Percent Solid	92			%		04/09/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/09/15	I	SW1311
Total Metals Digest	Completed					04/09/15	CB/AG	SW3050B

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

Comments:

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Phyllis Shiller, Laboratory Director

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOIL
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: LB
 Analyzed by: see "By" below

Date

Time

04/09/15 7:30
 04/09/15 17:02

Laboratory Data

SDG ID: GBJ00627
 Phoenix ID: BJ00628

Project ID: SW MTS
 Client ID: WC52D5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	654	3.4	3.4	mg/Kg	10	04/11/15	LK	SW6010C
TCLP Lead	3.37	0.10	0.010	mg/L	1	04/11/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/10/15	I/I	SW3005A
Percent Solid	92			%		04/09/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/09/15	I	SW1311
Total Metals Digest	Completed					04/09/15	CB/AG	SW3050B

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

Comments:

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

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOIL
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: LB
 Analyzed by: see "By" below

Date Time
 04/09/15 8:00
 04/09/15 17:02

Laboratory Data

SDG ID: GBJ00627
 Phoenix ID: BJ00629

Project ID: SW MTS
 Client ID: WC51D7

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	499	3.6	3.6	mg/Kg	10	04/11/15	LK	SW6010C
TCLP Lead	4.59	0.10	0.010	mg/L	1	04/11/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/10/15	I/I	SW3005A
Percent Solid	93			%		04/09/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/09/15	I	SW1311
Total Metals Digest	Completed					04/09/15	CB/AG	SW3050B

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

Comments:

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Phyllis Shiller, Laboratory Director

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOIL
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by:
 Received by: LB
 Analyzed by: see "By" below

Date

04/09/15
 04/09/15

Time

13:30
 17:02

Laboratory Data

SDG ID: GBJ00627
 Phoenix ID: BJ00638

Project ID: SW MTS
 Client ID: WC51D5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	871	3.3	3.3	mg/Kg	10	04/11/15	LK	SW6010C
TCLP Lead	4.29	0.10	0.010	mg/L	1	04/11/15	LK	SW6010C
TCLP Metals Digestion	Completed					04/10/15	I/I	SW3005A
Percent Solid	91			%		04/09/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/09/15	I	SW1311
Total Metals Digest	Completed					04/09/15	CB/AG	SW3050B

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

Comments:

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

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



QA/QC Report

April 13, 2015

QA/QC Data

SDG I.D.: GBJ00627

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 304208 (mg/L), QC Sample No: BJ00543 (BJ00627, BJ00628, BJ00629, BJ00638)													
<u>ICP Metals - TCLP Extraction</u>													
Lead	BRL	0.010	0.455	0.478	4.90	109	106	2.8	104	107	2.8	75 - 125	20
QA/QC Batch 304134 (mg/kg), QC Sample No: BJ00620 (BJ00627, BJ00628, BJ00629, BJ00638)													
<u>ICP Metals - Soil</u>													
Lead	BRL	0.30	85.2	69.1	20.9	88.8	92.0	3.5	84.7	83.4	1.5	75 - 125	30

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

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


 Phyllis Shiller, Laboratory Director
 April 13, 2015

Monday, April 13, 2015

Criteria: None

State: NY

Sample Criteria Exceedences Report

Page 1 of 1

GBJ00627 - IMPACT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

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



NY Temperature Narration

April 13, 2015

SDG I.D.: GBJ00627

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

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 2 of 2



LAB NAME: *Phoenia*
RECEIVED DATE:

you hold

Client Information			Project Information			Analytical Information			Matrix Codes					
Company Name Impact Environmental Address 170 Keyland Court City Bohemia Project Contact Xin Yuan Phone # 631-269-8800 Fax # 631-269-1599 E-mail xyuan@impactenvironmental.com			Project Name SW MTS Street 1820 Shore Parkway City Brooklyn State NY Zip Project # 7336 Sampler's Name Sampler's Signature 			Impact Analytical Package A* Impact Analytical Package B** Impact Analytical Package C*** VOC 8260 (Analyte List for NY Part 375 and NJ NRDC) VOCs 8260 (CP51 Analyte List) GR82 Analysis VOCs 8260 (CP51 Analyte List)			Matrix Codes L - Liquid S - Soil A - Air OL - Oil W - Wipe PC - Paint Chips SL - Sludge SD - Solid DW - Drinking Water DISS - Dissolved Sample Type G - Grab C - Composite B - Blank (LAB USE ONLY) 00636 00637 00638 00639 00640					
Sample Information			Sample Collection			Sample Containers			Data Deliverable Information					
LAB SAMPLE #	Sample ID	IEC Project Code	Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	OTHER	ICL	ICR	Methanol (USE 5035)	Sodium Bisulfate (EPA 5035)		
1	WC51D6		3	G	4/19	12:00	1							
2	WC51D8		1	G	4/19	13:00	1							
3	WC51D5		1	G	4/19	13:30	1							
4	WC51D10		1	G	4/19	2:00	1							
5	WC51D3		1	G	4/19	2:15	1							
6														
7														
8														
9														
10														
Turnaround Time (Business Days)			(LAB USE ONLY)			REFERENCES			NOTES / COMMENTS:					
Standard Service <input type="checkbox"/> Standard - 5 day <input type="checkbox"/> Standard - 4 day <input checked="" type="checkbox"/> Standard - 3 day Rush Service <input type="checkbox"/> 48 Hour RUSH <input type="checkbox"/> 24 Hour RUSH			Results Only (Level-1) <input type="checkbox"/> Results plus Misc. QC (Level-2) <input type="checkbox"/> Results plus ALL QC (Level-3) <input type="checkbox"/> <input type="checkbox"/> PA QC Package <input type="checkbox"/> NJ QC Package (LeveBNI) (EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDS, ASCII, TAGM, OEN)			CLP Category A (Level-2) <input type="checkbox"/> CLP Category B (Level-4) <input type="checkbox"/> ASP QC Package (Level-4) <input type="checkbox"/> Other <input checked="" type="checkbox"/> EDD Format <i>Excel, pdf</i>			*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCRS & NY Part 375 parameters and detection limits. **Package B (proprietary) - Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary) - Same as Package B plus RCRA characteristics and Full TCLP			*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCRS & NY Part 375 parameters and detection limits. **Package B (proprietary) - Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary) - Same as Package B plus RCRA characteristics and Full TCLP		
Relinquished by Sampler: 1 <i>Xin Yuan</i> Relinquished by: 3 <i>RKrup</i> Relinquished by: 5			Received By: 1 Received By: 3 Received By: 5			Relinquished By: 2 Relinquished By: 4			Received By: 2 <i>RKrup</i> Received By: 4 <i>RKrup</i>			Day / Time: 4/19/15 17:00 Date / Time: 4/19/15 17:00 COOLER INFORMATION <input type="checkbox"/> On Ice <input type="checkbox"/> Sample Receipt Discrepancy (attach information) pH: _____ Cooler Temp: _____		



Monday, April 13, 2015

Attn: Xin Yuan
Impact Environmental
170 Keyland Court
Bohemia NY 11716

Project ID: SW MTS
Sample ID#s: BH99977 - BH99980

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

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

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

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

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

Time

04/08/15 7:30
 04/08/15 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99977

Project ID: SW MTS
 Client ID: WC 56 D2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	45.0	0.36	0.36	mg/Kg	1	04/10/15	LK	SW6010C
TCLP Lead	0.36	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	89			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
 This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date Time
 04/08/15 8:00
 04/08/15 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99978

Project ID: SW MTS
 Client ID: WC 56 D5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	1290	4.0	4.0	mg/Kg	10	04/13/15	LK	SW6010C
TCLP Lead	6.40	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	85			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

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

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Phyllis Shiller, Laboratory Director

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

04/08/15
 04/08/15

Time

8:30
 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99979

Project ID: SW MTS
 Client ID: WC 56 D4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	303	3.5	3.5	mg/Kg	10	04/13/15	LK	SW6010C
TCLP Lead	3.98	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	91			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

April 13, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

April 13, 2015

FOR: Attn: Xin Yuan
 Impact Environmental
 170 Keyland Court
 Bohemia NY 11716

Sample Information

Matrix: SOLID
 Location Code: IMPACT
 Rush Request: 72 Hour
 P.O.#:

Custody Information

Collected by: XY
 Received by: SW
 Analyzed by: see "By" below

Date

04/08/15
 04/08/15

Time

9:00
 17:54

Laboratory Data

SDG ID: GBH99977
 Phoenix ID: BH99980

Project ID: SW MTS
 Client ID: WC 52 D2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Lead	44.9	0.37	0.37	mg/Kg	1	04/10/15	LK	SW6010C
TCLP Lead	1.58	0.10	0.010	mg/L	1	04/09/15	EK	SW6010C
TCLP Metals Digestion	Completed					04/09/15	I/I	SW3005A
Percent Solid	93			%		04/08/15	I	SW846-%Solid
TCLP Extraction for Metals	Completed					04/08/15	I	SW1311
Total Metals Digest	Completed					04/08/15	CB/AG	SW3050B

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

Comments:

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

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

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Phyllis Shiller, Laboratory Director

April 13, 2015

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QA/QC Report

April 13, 2015

QA/QC Data

SDG I.D.: GBH99977

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 303936 (mg/kg), QC Sample No: BH99686 (BH99977, BH99978, BH99979, BH99980)													
<u>ICP Metals - Soil</u>													
Lead	BRL	0.33	61.4	66.2	7.50	98.3	100	1.7	99.1	98.7	0.4	75 - 125	30
QA/QC Batch 303980 (mg/L), QC Sample No: BH99947 (BH99977, BH99978, BH99979, BH99980)													
<u>ICP Metals - TCLP Extraction</u>													
Lead	BRL	0.10	0.02	0.02	NC	108	109	0.9	108	105	2.8	75 - 125	20

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

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


 Phyllis Shiller, Laboratory Director
 April 13, 2015

Sample Criteria Exceedences Report

GBH99977 - IMPACT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BH99978	TCLP-PB	TCLP Lead	EPA / 40 CFR 261.24 / Toxicity Characteristics	6.40	0.10	5	5	mg/L

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



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NY Temperature Narration

April 13, 2015

SDG I.D.: GBH99977

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel) 631-269-8800 (Fax) 631-269-1599



LAB NAME: *Phoenix*

RECEIVED DATE:

Client Information Company Name: Impact Environmental Address: 170 Keyland Court City: Bohemia Project Contact: <i>Xih Yuan</i> Phone #: 631-269-8800 Fax #: 631-269-1599 E-mail: <i>xiaoyan@impactenvironmental.com</i>		Project Information Project Name: <i>SW MTS</i> Street: <i>1820 Shore Parkway</i> City: <i>Brooklyn</i> State: <i>NY</i> Zip: _____ Project #: <i>7336</i> Sampler's Name: <i>Xih Yuan</i> Sampler's Signature: _____		Analytical Information Impact Analytical Package A* Impact Analytical Package B** Impact Analytical Package C*** VOC 8260 (Analyte List for NY Part 375 and NJ NRDC) GP82 Analysis VOCs 8260 (CP51 Analyte List) Matrix Codes: L - Liquid, S - Soil, A - Air, OL - Oil, W - Wipe, PC - Paint Chips, SL - Sludge, SD - Solid, DW - Drinking Water, DISS - Dissolved	
Sample Information Sample ID: <i>WC56 D3</i> IEC Project Code: _____ Matrix Code: <i>S</i>		Sample Collection Sample Type: <i>C</i> Sample Date: <i>4/18/15</i> Total # of bottles: <i>1</i>		Sample Containers Number of Each Preserved Bottle: HCL, ICE, METANOL (USPA 5035), SODIUM BURETTE (EPA 5035)	
Standard Services <input type="checkbox"/> Standard - 5 day <input type="checkbox"/> Standard - 4 day <input checked="" type="checkbox"/> Standard - 3 day		Data Deliverable Information <input type="checkbox"/> Results Only (Level-1) <input type="checkbox"/> Results plus Misc. QC (Level-2) <input type="checkbox"/> Results plus ALL QC (Level-3) <input type="checkbox"/> PA QC Package <input type="checkbox"/> NJ QC Package (Level 3DU) (EDD Formats: Excel, pdf, EQUIS, GIS, GISKEY, SPDES, Ascd, TAGN, OEN)		REFERENCES *Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and detection limits. **Package B (proprietary) - Same as Package A, plus TCLP Metals & TPH. ***Package C (proprietary) - Same as Package B plus RCRA characteristics and Full TCLP	
Rush Service <input type="checkbox"/> 48 Hour RUSH <input type="checkbox"/> 24 Hour RUSH		Turnaround Time (Business Days) (LAB USE ONLY) TAT Approved By / Date: _____		NOTES/COMMENTS _____	
Relinquished by Sampler: Date / Time: <i>1 4/18/15 2:00</i> Signature: _____		Relinquished By: Date / Time: <i>3 4/18/15 12:34</i> Signature: _____		Relinquished By: Date / Time: <i>2 4/18/15</i> Signature: _____	
Relinquished by: Date / Time: _____ Signature: _____		Relinquished By: Date / Time: _____ Signature: _____		Relinquished By: Date / Time: _____ Signature: _____	
Standard Service 5		Rush Service 5		COOLER INFORMATION Cooler Temp: _____ <input type="checkbox"/> On Ice <input type="checkbox"/> Sample Receipt Discrepancy (attach information)	