Appendix L-3
Non-Chrome Fill Reuse As-Built Diagram and Analytical Data

SITE 114

Block 21501
Lot 18.01

SITE 143

Block 21510
Lot 1

SITE 132

Block 21510
Lot 2

SITE 137A

Block 21510
Lot 3

GARFIELD AVENUE

CARTERET AVENUE

Gas Line
Approx. 3' BGS

0+00 0+30 0+60 0+90 1+20 1+50 1+80 2+10 2+40 2+70 3+00 3+30 3+60 3+90 4+20 4+50 4+80 5+10 5+40 5+70

REFER TO SHEET 2

MATCHLINE

LEGEND

- PROPERTY LINE
- FENCE
- EDGE OF CONCRETE
- EXISTING SHEET PILE
- CURB
- EXISTING BUILDING
- GAS UTILITY LINE
- WATER UTILITY LINE
- UNDERGROUND ELECTRIC UTILITY LINE
- SEWER UTILITY LINE
- COMMUNICATION UTILITY LINE
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- COMBINED SEWER MANHOLE
- CATCH BASIN INLET
- FIRE HYDRANT
- WATER VALVE
- PRE-EXCAVATION GROUND SURFACE ELEVATION CONTOURS 1' INTERVAL 5' INDEX LIMIT OF EXCAVATION
- NON-CHROME FILL REUSE ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- STONE
- SITE BOUNDARY
- CENTERLINE
- 0+30 STATION NUMBER (IN FEET)
- NON-CHROME FILL REUSE BOUNDARY

ABBREVIATIONS:

ft	FEET
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
U.S	UNITED STATES

NOTES

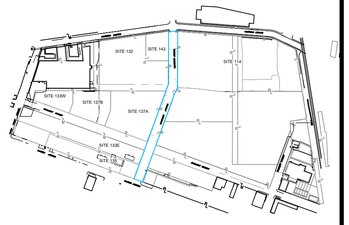
S1. PRE-CONSTRUCTION TOPOGRAPHIC CONTOURS, PROPERTY LINES, BUILDING EXTENTS, AND SITE FEATURES ARE SOURCED FROM SURVEYS CONDUCTED BETWEEN NOVEMBER 2006 AND JULY 2014 BY BORBAS SURVEYING AND MAPPING, LLC.

S2. UNDERGROUND UTILITIES SHOWN ARE BASED ON THE CATCH BASIN-RECEPTOR EVALUATION SURVEY, PPG SITE 114, THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY, CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, DATED APRIL 15, 2011, AND ON PLANS PROVIDED BY THE CITY OF JERSEY CITY.

S3. NON-CHROME FILL ELEVATION POINTS WERE SOURCED FROM SURVEYS CONDUCTED BETWEEN DECEMBER 4, 2019 AND DECEMBER 16, 2019 BY BORBAS SURVEYING AND MAPPING, LLC.

S4. ELEVATION VERTICAL DATUM IS NAVD88, IN U.S. SURVEY ft.

MAP LOCATION



AECOM

10 0 20
GRAPHIC SCALE IN FEET

PPG
GARFIELD AVENUE GROUP SITES
JERSEY CITY, NEW JERSEY

NON-CHROME FILL REUSE AS-BUILT

DATE: 02/26/2021 | DRWN: JJA – AT | **SHEET 1 OF 2**

File: C:\Users\Austin.Grieves\AECOM Directory\PPG - 60513193 CAD\20_SHEETS\NAR\Content\Figures\As-Built\20211202-23 Content Non-Cr Fill Re-Use As-Built.dwg Layout: 1 User: austin.Grieves Plotted: Feb 26, 2021 - 9:21am

LEGEND

- PROPERTY LINE
- FENCE
- EDGE OF CONCRETE
- EXISTING SHEET PILE
- CURB
- EXISTING BUILDING
- GAS UTILITY LINE
- WATER UTILITY LINE
- UNDERGROUND ELECTRIC UTILITY LINE
- SEWER UTILITY LINE
- COMMUNICATION UTILITY LINE
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- COMBINED SEWER MANHOLE
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- PRE-EXCAVATION GROUND SURFACE ELEVATION CONTOURS 1' INTERVAL 5' INDEX LIMIT OF EXCAVATION
- NON-CHROME FILL REUSE ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- STONE
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- NON-CHROME FILL REUSE BOUNDARY

ABBREVIATIONS:

ft	FEET
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
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NOTES:

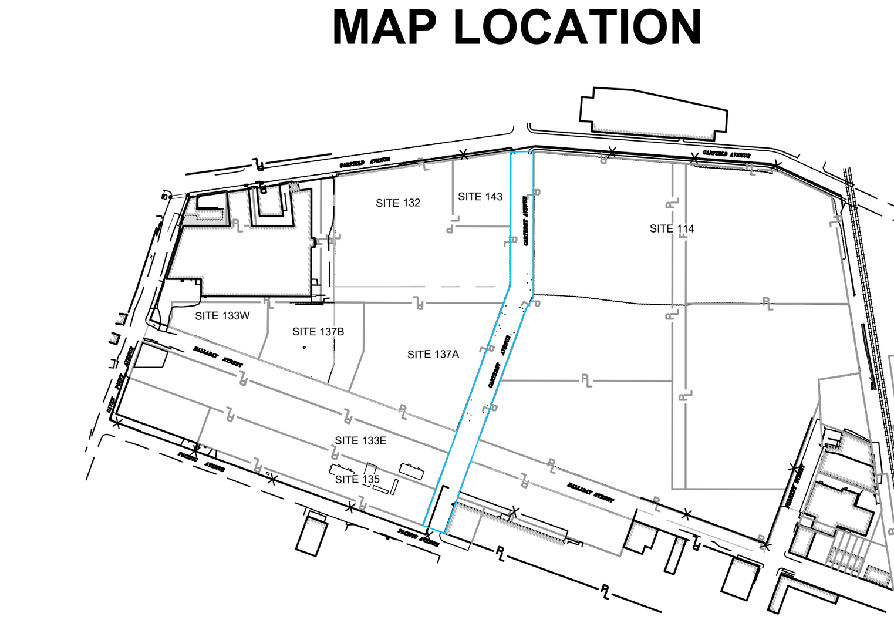
S1. PRE-CONSTRUCTION TOPOGRAPHIC CONTOURS, PROPERTY LINES, BUILDING EXTENTS, AND SITE FEATURES ARE SOURCED FROM SURVEYS CONDUCTED BETWEEN NOVEMBER 2006 AND JULY 2014 BY BORBAS SURVEYING AND MAPPING, LLC.

S2. UNDERGROUND UTILITIES SHOWN ARE BASED ON THE CATCH BASIN-RECEPTOR EVALUATION SURVEY, PPG SITE 114, THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY, CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, DATED APRIL 15, 2011, AND ON PLANS PROVIDED BY THE CITY OF JERSEY CITY.

S3. NON-CHROME FILL ELEVATION POINTS WERE SOURCED FROM SURVEYS CONDUCTED BETWEEN DECEMBER 4, 2019 AND DECEMBER 16, 2019 BY BORBAS SURVEYING AND MAPPING, LLC.

S4. ELEVATION VERTICAL DATUM IS NAVD88, IN U.S. SURVEY ft.

MAP LOCATION



AECOM

10 0 20
GRAPHIC SCALE IN FEET

PPG
GARFIELD AVENUE GROUP SITES
JERSEY CITY, NEW JERSEY

NON-CHROME FILL REUSE AS-BUILT

DATE: 02/26/2021 DRWN: JJA — AT

SHEET 2 OF 2

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 143-DD1-B03

Project Name: PPG Garfield Ave	**Drilling Company:** SGS	
Project Number: 60237614.846GARF.A	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 683186
Date Started Drilling: 12/5/2011	**Rig Type:** 7728DT	**Coordinates (NJSPNAD83) y:** 610822
Date Finished Drilling: 12/5/2011	**Core Size:** 2.0 in	**Boring Total Depth:** 5 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 1.5 ft
Physical Location: Site 143 - Back lot		**Surface Elevation:** 12.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	2.5	0.2	Dry	CONCRETE		Concrete, dry, no staining.	
			Moist	FILL		Black very fine to fine SAND, trace Fill (slag, cinders), loose. Slight oil odor.	DD1-B03-0.5
1		0.1					
			Wet	FILL		Black fine SAND and Coal fragments, little Ash and Cinders, loose. No odor.	DD1-B03-1.5
2							
				NR		No Recovery	
3							
4							
5						End of boring at 5 ft.	

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromite ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: Boring used to identify historic fill. No COPR/GGM identified in boring.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: EF-64

Project Name: PPG Soil RIWP	**Drilling Company:** SGS North America	
Project Number: 6015-4801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 610816.628
Date Started Drilling: 6/2/2011	**Rig Type:** Airknife/Geoprobe	**Coordinates (NJSPNAD83) y:** 683186.312
Date Finished Drilling: 6/2/2011	**Core Size:** 12 in	**Boring Total Depth:** 15 ft
Logged By: A. Salazar, B.Daniels	**Project Manager:** Robert Cataldo	**Depth to Water:** 13.8
Physical Location: Site 143, back lot.		**Surface Elevation:** 12.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0			dry	ASPHALT		Black Asphalt	
1	5	0	wet	FILL		Black (10YR 2/1) fine to medium SAND, some fine to medium angular Gravel, trace Silt, Slag, loose, no odor, wet	
2		0					
3		0	wet	FILL		Black fine to medium sandy SILT, some fine to medium angular Gravel and Slag, loose wet, no odor	EF-B64-2.5
4		0	moist	FILL		Brown (7.5YR 4/4) sandy SILT, some Clay, trace fine angular Gravel, cohesive, no odor, moist	
5			moist	FILL		Brown (7.5YR 4/3) medium to fine silty SAND, some fine to medium angular Gravel, trace Clay, loose, moist, no odor.	
6	3.5	0	wet	FILL		Brown (7.5YR 4/3) fine SAND AND SILT, little fine to medium angular gravel, wet, no odor.	
7							
8							
9			wet	NR		No Recovery	
10		0	wet	FILL		Black (5YR 2.5/1) ASH AND CINDER FILL, wet, no odor	
11			wet	PT		Black PEAT	EF-B64-10.5
12	1		wet	NR		No Recovery	
13							
14							
15				NULL		End of Boring at 15 ft.	

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromate ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified at this location.

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

To	Wayne Howitz, NJDEP
CC	Ronald Riccio, Site Administrator James Ray, Site Administrator PM Nancy Colson, Site Administrator Assistant David Doyle, NJDEP Prabal Amin, WESTON Solutions, Inc. Laura Amend-Babcock, WESTON Solutions, Inc. David Spader, ERFS Hannah Bartges, City of Jersey City Peter Baker, City of Jersey City Nick Strasser, City of Jersey City Joe Cunha, City of Jersey City Mark Terril, PPG Jody Overmyer, PPG Rich Feinberg, PPG Aimee Ruiter, AECOM
Subject	Carteret Avenue Non-Chrome Fill Soil Re-Use Plan (Revision 2)
From	Cameron Dixon Sandy Paulsen
Date	June 6, 2019

Introduction

As part of the Carteret Remediation, PPG is conducting excavation of soil in Carteret Avenue to create a clean corridor for utility workers in coordination with the City of Jersey City (the City) and the Jersey City Municipal Utilities Authority (JCMUA). To facilitate construction of the clean corridor, PPG has agreed to remove non-chrome fill material. This memorandum documents the presence of the non-chrome fill and provides a plan for the re-use of non-chrome fill as backfill below the clean corridor. PPG is seeking New Jersey Department of Environmental Protection (NJDEP) approval of the proposed soil re-use approach described herein.

Soil to be removed within Carteret Avenue is impacted with Chromate Chemical Production Waste (CCPW) and manufactured gas plant (MGP)-related impacts that have emanated from Site 114 into Carteret Avenue, and/or historic fill as defined by N.J.A.C. 7:26E-1.8 (NJDEP, 2012). In accordance with the 1990 Administrative Consent Order (ACO) and the 2009 Judicial Consent Order (JCO), PPG is responsible for remediating CCPW-related impacts in soil within Carteret Avenue. PPG and Public Service Electric and Gas Company (PSEG) are jointly responsible for remediation of MGP-related impacts within Carteret Avenue that have emanated from Site 114. Remediation of non-CCPW- and non-MGP-impacted historic fill (non-chrome fill) within Carteret Avenue, which is not subject to the terms of the ACO and JCO, must be managed by the City's Licensed Site Remediation Professional (LSRP) under the NJDEP LSRP program.

For non-chrome fill present in Carteret Avenue, the City is considered to be the property owner and the owner of the material, and PPG is considered to be the generator of the material. Contact information for the respective parties is included in **Table 1** below.

Table 1 – Contact Information

Point of Contact	Organization	Phone/Fax/Email	Role
Joe Cunha	Jersey City Division of Engineering, Traffic and Transportation	phone: (201)-547-4411 fax: (201)-547-5900 email: JCunha@jcnj.org	Owner's Representative
Richard Feinberg	PPG	phone: (732)-233-4552 email: feinberg@ppg.com	Generator of Non-Chrome Re-Use Material

Non-Chrome Fill

Non-chrome fill proposed for re-use will be removed from varying starting elevations to the bottom of the excavation from five distinct areas as listed below and depicted on **Figure 1A, Figure 1B,** and **Figure 2**:

- Area 1: Sewer Station 0+06 to 1+10 on the north side of Carteret Avenue
- Area 2: Sewer Station 0+06 to 1+50 on the south side of Carteret Avenue
- Area 3: Sewer Station 1+50 to 1+70 on the south side of Carteret Avenue
- Area 4: Sewer Station 1+70 to 2+00 on the south side of Carteret Avenue
- Area 5: Sewer Station 8+30 to 9+24 on the north side of Carteret Avenue

No CCPW-related impacts or MGP-related impacts have been identified within these areas based on the data collected to date, as presented in the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1), Addendum to the Final Remedial Action Work Plan (Soil) Rev. 4, Garfield Avenue Group Sites, Jersey City, Hudson County, New Jersey* (Final Carteret RAWP) (AECOM, 2019a).

Figure 2 and **Tables 1A** through **2C** present the non-CCPW-related data associated with non-chrome fill in Carteret Avenue. Boring logs representing non-chrome fill material to be re-used as fill in the Carteret Avenue excavation are attached.

In-place non-chrome fill is currently being utilized as roadway subbase in Carteret Avenue and will continue to serve this function upon placement as fill within the Carteret Avenue excavation. Based on the geologic descriptions documented in the boring logs, the non-chrome fill material in Carteret Avenue varies in terms of material type and properties (e.g., grain size) and is consistent with the definition of historic fill specified in N.J.A.C. 7:26E-1.8 (NJDEP, 2012).

Soil Re-Use Plan

The following procedure is proposed for the re-use of non-chrome fill material in Carteret Avenue.

1) Non-Chrome Fill Removal

Non-chrome fill material will be removed from Non-Chrome Fill Source Areas 1 through 5, as

shown on **Figures 1A, 1B,** and **2**, and will be temporarily stockpiled adjacent to the excavation area as described in Item 2 below. Re-use of approximately 2,800 cubic yards (4,200 tons) of non-chrome fill material is proposed. Locations (i.e., Non-Chrome Fill Source Areas) and elevations of the removed non-chrome fill material will be tracked as described in Item 5 below. Note that asphalt and dense-graded aggregate (DGA) material placed on top of the asphalt within Carteret Avenue during remediation of adjacent Garfield Avenue (GA) Group Sites will be removed prior to excavation of non-chrome fill material and be disposed of off site in accordance with applicable disposal facility requirements and federal, state, and local regulations.

The estimated volumes of non-chrome fill to be removed from Carteret Avenue during excavation of the clean corridor are presented in **Table 2** and on **Figures 1A** and **1B**.

Table 2: Non-Chrome Fill to be Removed – Carteret Avenue Clean Corridor Excavation

Non-Chrome Fill Area	Sewer Station	Street Side	Estimated Non-Chrome Fill Volume to be Removed
Area 1	0+06 to 1+10	North	900 CY
Area 2	0+06 to 1+50	South	600 CY
Area 3	1+50 to 1+70	South	200 CY
Area 4	1+70 to 2+00	South	200 CY
Area 5	8+30 to 9+24	North	400 CY

Note:
CY – cubic yards

2) Stockpile Management

The excavated non-chrome fill material will be temporarily stockpiled adjacent to the excavation. The proposed stockpile area is provided in the *Technical Addendum to the Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1),* (Carteret RAWP Technical Addendum) (AECOM, 2019b). The stockpile(s) will be placed on a 20-millimeter (mil) thickness high-density polyethylene (HDPE) liner and bermed with straw wattles or hay bales to control stormwater run-off/run-on. Stockpiles will be covered with 6-mil HDPE liners when inactive.

Management of stockpiles will be conducted in accordance with the Garfield Avenue Group of Sites Soil and Stockpile Management Plan with site policies and procedures as outlined in Field Change Notification (FCN) SWTEP 3 – Relocation of Stockpile Area, and with the Flood Hazard Area (FHA) Permit requirements. Stockpiles will be approximately 1,000 cubic yards (CY) in size. In accordance with Field Change Notification (FCN) SWTEP 3, stockpiles will not exceed height and size restrictions of 14 feet and 8,000 CY, respectively.

3) Characterization Sampling

A total of 13 characterization samples will be collected from the non-chrome fill material in accordance with N.J.A.C. 7:26E and as specified in Table 1 of the *New Jersey Department of Environmental Protection, Site Remediation Program, Fill Material Guidance for SRP Sites* (Historic Fill Guidance for SRP Sites) (NJDEP, 2015) under the reduced sampling scheme. The justification for the reduced sampling frequency is that extensive data has been generated as part

of the Remedial Investigation and Pre-Design Investigation for Carteret Avenue; therefore, the material within in Carteret Avenue has been substantially characterized.

Each representative sample will be collected as a discrete sample and analyzed for CCPW-related compounds (hexavalent chromium, oxidation-reduction potential, pH, and CCPW metals [i.e., antimony, chromium, nickel, thallium, vanadium]) and for MGP-related impacts that have emanated from Site 114 into Carteret Avenue. MGP-related impacts that have emanated from Site 114 into Carteret Avenue include 2-methylnaphthalene, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene as presented in the Technical Memorandum entitled, *Halladay Street North, Carteret Avenue and Garfield Avenue – Emanating From Parameters* (AECOM, 2018).

For material not previously characterized for waste disposal purposes, composite samples will be collected from select stockpiles and analyzed in accordance with waste disposal facility requirements. If the waste characterization results indicate that the stockpiled material is hazardous, the material will not be re-used within the excavation and will be managed as hazardous waste in accordance with applicable disposal facility requirements and federal, state, and local regulations.

In accordance with N.J.A.C. 7:26E-5.2(g), non-chrome fill material will not contain free liquid (which includes free product) prior to placement within the excavation. Non-chrome material to be re-used on site will be visibly free of petroleum product/sheen, MGP impacts (i.e., oil-like material/tar-like material [OM/TM]), and chromium impacts. Non-chrome fill material that exhibits visible MGP impacts (i.e., OM/TM) or visible CCPW impacts, or contains hexavalent chromium or CCPW metals concentrations greater than applicable standards based on characterization sampling results will not be re-used on site and will be managed as hazardous waste and disposed of off site in accordance with applicable disposal facility requirements and federal, state, and local regulations. If visual evidence of contamination is observed within the non-chrome fill areas adjacent to PPG-owned sites, PPG's LSRP on record for that property will be notified. The fill material within the impacted area will not be re-used within the excavation. Additionally, adjacent non-impacted material within the non-chrome fill areas will not be re-used until the LSRP representing the responsible party has delineated the impacts of the impacted area. Concrete, if encountered during excavation within the non-chrome fill areas, will not be re-used within the excavation and will be disposed of in accordance with applicable disposal facility requirements and federal, state, and local regulations.

For non-chrome fill that will not be re-used, either the City (as the property owner and owner of the material), or PPG (currently identified as the generator of the material) will arrange for off-site transportation and disposal under a cost-sharing agreement currently being negotiated. If it is determined that the City will be responsible for off-site transportation and disposal of the non-chrome fill material, the City will serve as the generator and will be required to obtain a United States Environmental Protection Agency Identification Number (EPA ID No.) separate from PPG's EPA ID No.

4) Soil Re-Use

Once the target excavation limits have been reached, required post-excavation samples have been collected, and the excavation area has been approved for backfill placement, non-chrome fill material will be placed in areas within the Carteret Avenue excavation, from the bottom of the

excavation up to a maximum elevation (El.) of 3.5 feet in the North American Vertical Datum of 1988 (NAVD88) and at least 4 feet away from the 96-inch sewer. A detail for placement of non-chrome fill material within the Carteret Avenue excavation is provided in Drawing D-02 of the Remediation Design Drawings provided as part of the Final Carteret RAWP. The non-chrome fill material will be compacted to a minimum 90% of maximum density following placement as determined using the Standard Proctor test in accordance with the City of Jersey City standards.

Re-use of non-chrome fill within the Carteret excavation constitutes a variance from technical requirements of N.J.A.C. 7:26E-5.2(b)1 (referred to as the "like-on-like requirement") and N.J.A.C. 7:26E-5.2(b)2 (referred to as the "75th percentile requirement") (NJDEP, 2012). This variance is acceptable based on the following rationale:

1) The Non-Chrome Fill Source Areas and receiving areas are within the same Area of Concern (AOC).
2) Based on the extensive dataset generated to date, contaminants in non-chrome fill are similar in nature and in concentrations as fill material in the non-chrome fill receiving areas.
3) The non-chrome fill material to be re-used within the Carteret excavation is consistent with the definition of historic fill specified in N.J.A.C. 7:26E-1.8 (NJDEP, 2012).

5) Tracking and Reporting

Surveys of the Non-Chrome Fill Source Areas and the Non-Chrome Fill Re-Use Areas (i.e., areas receiving non-chrome fill re-use material) will be conducted by a surveyor, licensed in the State of New Jersey, to track non-chrome fill material origin and placement within the excavation area; the surveys will include horizontal and vertical limits of these areas. The final survey results and characterization sampling results will be included as part of the future Remedial Action Report (RAR) submittal.

6) Institutional and Engineering Controls

CCPW-related impacts to remain in Carteret Avenue following excavation will be documented in a notice in lieu of deed notice to be included as part of a future RAR submittal, to be prepared by PPG. Impacts that have emanated from Site 114 into Carteret Avenue (i.e., MGP-related impacts) to remain in Carteret Avenue following excavation will be documented in a notice in lieu of deed notice to be included as part of a separate future RAR submittal, to be prepared by PSEG. A clean fill cap (DGA) with a thickness of 2 ft will be installed at either the base of the excavation (in areas where non-chrome fill is not being used), or on top of the re-graded non-chrome fill (Non-Chrome Re-Use Areas), as an engineering control following excavation. Historic fill remaining within Carteret Avenue following excavation is the responsibility of the property owner under the LSRP program; therefore, the notice in lieu of deed notice for CCPW-related impacts to be prepared by PPG/AECOM will not include historic fill.

References

AECOM, 2018. Technical Memorandum: *Halladay Street North, Carteret Avenue, Garfield Avenue – Emanating From Parameters*. September 18, 2018.

AECOM, 2019a. *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1), Addendum to the Final Remedial Action Work Plan (Soil) Rev. 4, Garfield Avenue Group Sites, Jersey City, Hudson County, New Jersey*. June 2019.

AECOM, 2019b. *Technical Addendum to the Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1), NJDEP Program Interest Number: G000005480, PPG Garfield Avenue Group, Hudson County Chromate Sites, Jersey City, New Jersey.* June 2019.

NJDEP, 2012. *Technical Requirements for Site Remediation, N.J.A.C. 7:26E*. May 7, 2012.

NJDEP, 2015. *New Jersey Department of Environmental Protection, Site Remediation Program, Fill Material Guidance for SRP Sites*, Version 3.0. April 2015.

Attachments

Tables
Figures
Boring Logs

Tables

Table 1A
Validated Non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte	ALUMINUM		ARSENIC		BARIUM		BERYLLIUM		CADMIUM		CALCIUM METAL	
									CAS RN	7429-90-5		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-70-2	
									Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									MSSRS	78000		19		16000		16		78			
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes	5420	J	5.0	J	31.5		< 0.58	U	0.83		1340	J
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes	10500		2.8		70.6		0.86		< 0.65	U	1360	
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	9870	J	4.3	J	68.5		0.70		< 0.64	U	1180	J
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	9310	J	5.0	J	62.3		0.70		< 0.62	U	1120	J
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes	7760	J	4.2	J	59.4		0.79		< 0.60	U	1790	J
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes	3620	J	7.5	J	23.0		1.4		< 0.58	U	1740	J
133-EE23A-PB	133-EE23A-PB-3.5-4.0	JC15148	JC15148-1A	3.5 - 4.0	9.5	6	5.5	03/01/2016	Yes												
133RI-EE23A-SW-N1	133RI-EE23A-SW-N-1.0-1.5	JC15330	JC15330-1A	1.0 - 1.5	9.5	8.5	8	03/03/2016	Yes												
135-B19	135-B19A (1.3-1.8)J49116-8	J49116	J49116-8	1.3 - 1.8	9.9	8.6	8.1	12/13/2006	Yes	8840		**27.9**		116		< 0.58	U	< 0.58	U	14400	J
135-B19	135-B19B (3.3-3.8)J49116-9	J49116	J49116-9	2.1 - 2.6	9.9	7.8	7.3	12/13/2006	Yes	4440		**32.2**		430		< 0.63	U	2.7		6580	J
135-B19	135 B19C(3.3-3.8)J49116-17	J49116	J49116-17	3.3 - 3.8	9.9	6.6	6.1	12/13/2006	Yes	4380		16.5		540		< 0.67	U	< 0.67	U	2700	J
135-B19	PPG-135-B19D_5.1-5.6_796867	B400	796867	5.1 - 5.6	9.9	4.8	4.3	01/02/2007	Yes	11000		6.8	J	82.4		0.35	J	< 0.16	U	2300	
135-B19	PPG-135-B19E_9.4-9.9_796868	B400	796868	9.4 - 9.9	9.9	0.5	0	01/02/2007	Yes	12900		10.2	J	79.3		1		0.38		3480	
135-B19	PPG-135-B19F_13.2-13.7_796869	B400	796869	13.2 - 13.7	9.9	-3.3	-3.8	01/02/2007	Yes	10200		5.1	J	42.5		0.72		< 0.17	U	2400	
135-B19	PPG-135-B19G_17.2-18.2_796870	B400	796870	17.2 - 18.2	9.9	-7.3	-8.3	01/02/2007	Yes	18600		8.6	J	38.4		0.94		< 0.19	U	2100	
135-B19	PPG-135-B19GD_17.2-18.2_796871	B400	796871	17.2 - 18.2	9.9	-7.3	-8.3	01/02/2007	Yes	11300		3.7	J	26.2		0.54	J	< 0.19	U	2240	
135-B19	PPG-135-B19H_20.2-20.7_796872	B400	796872	20.2 - 20.7	9.9	-10.3	-10.8	01/02/2007	Yes	7720		1.5	J	62.5		0.46		< 0.13	U	902	
143-B5	PPG-143-B5A_1.0-1.5_798411	B693	798411	1.0 - 1.5	12.9	11.9	11.4	01/09/2007	Yes	4910	J	5.7	J	107	J	0.19	J	2.5		991	J
143-B5	PPG-143-B5B_2.0-2.5_798412	B693	798412	2.0 - 2.5	12.9	10.9	10.4	01/09/2007	Yes	7040	J	6.2	J	47.7	J	0.27	J	0.21		1880	J
143-B5	PPG-143-B5C_2.9-3.4_798413	B693	798413	2.9 - 3.4	12.9	10	9.5	01/09/2007	Yes	3530	J	7.3	J	266	J	0.14	J	0.3		5860	J
143-B5	PPG-143-B5D_3.5-4.1_798414	B693	798414	3.5 - 4.1	12.9	9.4	8.8	01/09/2007	Yes	6800	J	4.8	J	50.8	J	0.54		< 0.12	U	1360	J
143-B5	PPG-143-B5E_6.5-7.0_799362	B818	799362	6.5 - 7.0	12.9	6.4	5.9	01/11/2007	Yes	9000	J	2.3	J	54.6		0.5		< 0.093	U	1310	J
143-B5	PPG-143-B5F_8.8-9.5_799363	B818	799363	8.8 - 9.5	12.9	4.1	3.4	01/11/2007	Yes	5900	J	11.6	J	100		0.39		0.35	B	4170	J
143-B5	PPG-143-B5G_9.5-9.9_799364	B818	799364	9.5 - 9.9	12.9	3.4	3	01/11/2007	Yes	9240	J	**32.4**	**J**	81.7		0.42		13.6		2870	J
143-B5	PPG-143-B5H_9.9-10.6_799365	B818	799365	9.9 - 10.6	12.9	3	2.3	01/11/2007	Yes	3270	J	9.7	J	203		0.19		2.4		1340	J
143-B5	PPG-143-B5HDUP_9.9-10.6_799366	B818	799366	9.9 - 10.6	12.9	3	2.3	01/11/2007	Yes	3240	J	**29.2**	**J**	269		0.2		2.2		2620	J
143-B5	PPG-143-B5I_12.6-13.1_799367	B818	799367	12.6 - 13.1	12.9	0.3	-0.2	01/11/2007	Yes	4820	J	**20.7**	**J**	216		0.42		0.13	B	6660	J
143-B5	PPG-143-B5J_13.1-13.9_799368	B818	799368	13.1 - 13.9	12.9	-0.2	-1	01/11/2007	Yes	16300	J	6.3	J	170		1.1	BJ	< 0.14	U	2540	J
143-B5	PPG-143-B5K_17.1-17.6_799369	B818	799369	17.1 - 17.6	12.9	-4.2	-4.7	01/11/2007	Yes	9280	J	2.4	J	57.9		0.33		< 0.096	U	344	J
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	5680		4.9		79.0		0.25		1.8	J	8870	
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	7170		13.7		63.0		0.35		1.3	J	2900	
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	14600	J	17.3		316	J	1.0		2.2		43100	J
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	8710	J	10.2		154	J	0.51		0.79		28900	J
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	4570	J	3.6		46.7	J	0.50		0.18	JB	5650	J
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	6680	J	16.9		402	J	0.62		0.71		12800	J
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	8950	J	4.6		68.9	J	0.87		< 0.058	UB	2020	J
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	9630	J	6.6		82.2	J	0.86		0.26	JB	2620	J
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	8500	J	5.2		90.1	J	0.65		0.31	JB	2050	J
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	10200	J	17.3		79.6	J	0.89		0.29	JB	9490	J
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	8460	J	4.0		32.7	J	0.66		0.15	JB	1630	J
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	8120	J	4.1		34.3	J	0.57		0.25	JB	1230	J
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	14200	J	5.4	J	54.8	J	0.84	J	0.39	JB	2890	J
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	7750	J	**22.5**		493	J	0.52		4.6		19800	J
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	11400	J	9.0		133	J	0.65		1.0		4830	J
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	8280	J	**45.6**		397	J	0.63		6.4		10300	J
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	11400	J	**28.2**	**J**	1310	J	0.79	J	3.9	J	17200	J
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	11600	J	**21.4**		225	J	1.0		0.83		4720	J
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	21000	J	12.0	J	89.9	J	1.5	J	0.65	J	2550	J
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	7640	J	7.9		39.9	J	0.92		0.19	JB	2280	J
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	14800	J	5.4	J	75.5	J	0.81	J	0.25	JB	2480	J
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	14800		2.9		33.1		0.49		0.079	J	296	J
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	14000		4.7		36.3		0.61		0.15	J	367	J
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	7840		3.7		37.7		0.31		0.19	J	25300	
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	8170		3.3		49.1		0.32		0.22	J	23100	
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	8130		4.2		43.4		0.31		0.20	J	31800	
PSEG-SB52	PSEG-SB52A(1.0-1.5)J47237-1	J47237	J47237-1	1.0 - 1.5	11.1	10.1	9.6	11/22/2006	Yes	16300		18.3		10700		< 0.59	U	6.5		44900	J
PSEG-SB52	PSEG-SB52B(6.0-6.5)J47237-2	J47237	J47237-2	6.0 - 6.5	11.1	5.1	4.6	11/22/2006	Yes	8610		14.4		201		< 0.83	U	< 0.83	U	5340	J
PSEG-SB52	PSEG-SB52BD(6.0-6.5)J47237-3	J47237	J47237-3	6.0 - 6.5	11.1	5.1	4.6	11/22/2006	Yes	8000		13.5		211		< 0.83	U	< 0.83	U	5370	J
PSEG-SB52	PSEG-SB52C(8.5-9.0)J47237-5	J47237	J47237-5	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	Yes	14300		16.7		58.7		< 1.1	U	< 1.1	U	1320	J
PSEG-SB52	PSEG-SB52D(9.0-9.1)J47237-6	J47237	J47237-6	9.0 - 9.1	11.1	2.1	2	11/22/2006	Yes	7990		**25.1**		45.1		< 1	U	< 1	U	1110	J
PSEG-SB52	PSEG-SB52E(10.0-10.5)J47237-7	J47237	J47237-7	10.0 - 10.5	11.1	1.1	0.6	11/22/2006	Yes	5610		4.6		32.3		< 0.63	U	< 0.63	U	926	J
PSEG-SB52	PSEG-SB52F(12.0-13.0)J47237-8	J47237	J47237-8	12.0 - 13.0	11.1	-0.9	-1.9	11/22/2006	Yes	6530		3.7		29.5		< 0.58	U	< 0.58	U	1480	J
PSEG-SB52	PSEG-SB52G(14.2-14.9)J47237-9	J47237	J47237-9	14.2 - 14.9	11.1	-3.1	-3.8	11/22/2006	Yes	9570		3.8		37.8		0.66		< 0.58	U	1250	J
PSEG-SB52	PSEG-SB52GD(14.2-14.9)J47237-10	J47237	J47237-10	14.2 - 14.9	11.1	-3.1	-3.8	11/22/2006	Yes	9680		3.9		35.9		0.71		< 0.59	U	2070	J
PSEG-SB52	PSEG-SB52H(16.0-16.5)J47368-9	J47368	J47368-9	16.0 - 16.5	11.1	-4.9	-5.4	11/27/2006	Yes	16700	J	< 4.2	U	46.5		< 1.0	U	< 1.0	U	1920	
PSEG-SB52	PSEG-SB52I(19.0-20.0)J47368-10	J47368	J47368-10	19.0 - 20.0	11.1	-7.9	-8.9	11/27/2006	Yes	16000	J	9.8		41.2		< 0.92	U	< 0.92	U	1850	
PSEG-SB52	PSEG-SB52ID(19.0-20.0)J47368-11	J47368	J47368-11	19.0 - 20.0	11.1	-7.9	-8.9	11/27/2006	Yes	16800	J	9.3		39.9		< 0.95	U	< 0.95	U	1820	
PSEG-SB52	PSEG-SB52J(20.0-21.0)J47368-12	J47368	J47368-12	20.0 - 21.0	11.1	-8.9	-9.9	11/27/2006	Yes	14800	J	< 3.6	U	155		< 0.89	U	< 0.89	U	2030	
PSEG-SB52	PSEG-SB52K(21.0-21.2)J47368-13	J47368	J47368-13	21.0 - 21.2	11.1	-9.9	-10.1	11/27/2006	Yes	10900	J	< 2.5	U	191		< 0.63	U	< 0.63	U	< 630	U
PSEG-SB54	PSEG-SB54A(1.0-1.5)J47368-1	J47368	J47368-1	1.0 - 1.5	10.2	9.2	8.7	11/27/2006	Yes			3.4		37.9							
PSEG-SB54	PSEG-SB54B(4.0-4.5)J47368-2	J47368	J47368-2	4.0 - 4.5	10.2	6.2	5.7	11/27/2006	Yes			**22.2**		183							
PSEG-SB54	PSEG-SB54C(6.5-7.1)J47368-3	J47368	J47368-3	6.5 - 7.1	10.2	3.7	3.1	11/27/2006	Yes			4.6		50.1							
PSEG-SB54	PSEG-SB54D(12.0-12.5)J47368-4	J47368	J47368-4	12.0 - 12.5	10.2	-1.8	-2.3	11/27/2006	Yes			3.5		39.4							
PSEG-SB54	PSEG-SB54E(14.5-15.0)J47368-5	J47368	J47368-5	14.5 - 15.0	10.2	-4.3	-4.8	11/27/2006	Yes			7.2		< 34	U						

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Table 1A
Validated Non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte	COBALT		COPPER		IRON		LEAD		MAGNESIUM		MANGANESE	
									CAS RN	7440-48-4		7440-50-8		7439-89-6		7439-92-1		7439-95-4		7439-96-5	
									Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									MSSRS	590		3100				400				5900	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes	< 5.8	U	18.2		22400	J	185		1510	J	466	J
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes	< 6.5	U	7.8		9940	J	6.6		1880		130	
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 6.4	U	7.4		12900	J	8.6		1850	J	206	J
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 6.2	U	7.8		12300	J	9.5		1750	J	185	J
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes	8.0		18.7		14300	J	27.3		5120	J	781	J
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes	6.8		9.9		14400	J	10.9		2610	J	155	J
133-EE23A-PB	133-EE23A-PB-3.5-4.0	JC15148	JC15148-1A	3.5 - 4.0	9.5	6	5.5	03/01/2016	Yes												
133RI-EE23A-SW-N1	133RI-EE23A-SW-N-1.0-1.5	JC15330	JC15330-1A	1.0 - 1.5	9.5	8.5	8	03/03/2016	Yes												
135-B19	135-B19A (1.3-1.8)J49116-8	J49116	J49116-8	1.3 - 1.8	9.9	8.6	8.1	12/13/2006	Yes	13		136	J	74600	J	118		7240		751	J
135-B19	135-B19B (3.3-3.8)J49116-9	J49116	J49116-9	2.1 - 2.6	9.9	7.8	7.3	12/13/2006	Yes	7.1		591	J	48600	J	**794**		1550		1170	J
135-B19	135 B19C(3.3-3.8)J49116-17	J49116	J49116-17	3.3 - 3.8	9.9	6.6	6.1	12/13/2006	Yes	10.5		155	J	16200	J	**1710**		< 670	U	137	J
135-B19	PPG-135-B19D_5.1-5.6_796867	B400	796867	5.1 - 5.6	9.9	4.8	4.3	01/02/2007	Yes	5.1		20		26700	J	177	J	3550		189	J
135-B19	PPG-135-B19E_9.4-9.9_796868	B400	796868	9.4 - 9.9	9.9	0.5	0	01/02/2007	Yes	9.1		88.9		21800	J	149	J	5010		472	J
135-B19	PPG-135-B19F_13.2-13.7_796869	B400	796869	13.2 - 13.7	9.9	-3.3	-3.8	01/02/2007	Yes	5.9		19.3		16200	J	26.1	J	4920		222	J
135-B19	PPG-135-B19G_17.2-18.2_796870	B400	796870	17.2 - 18.2	9.9	-7.3	-8.3	01/02/2007	Yes	11.5		15.1		37100	J	17.6	J	7630		571	J
135-B19	PPG-135-B19GD_17.2-18.2_796871	B400	796871	17.2 - 18.2	9.9	-7.3	-8.3	01/02/2007	Yes	7.3		10.6		19700	J	10.4	J	5120		260	J
135-B19	PPG-135-B19H_20.2-20.7_796872	B400	796872	20.2 - 20.7	9.9	-10.3	-10.8	01/02/2007	Yes	7.6		15.7		13100	J	9.1	J	2940		111	J
143-B5	PPG-143-B5A_1.0-1.5_798411	B693	798411	1.0 - 1.5	12.9	11.9	11.4	01/09/2007	Yes	4.9	J	88.9	J	20100		332		648	J	236	
143-B5	PPG-143-B5B_2.0-2.5_798412	B693	798412	2.0 - 2.5	12.9	10.9	10.4	01/09/2007	Yes	10.9	J	61.6	J	55800		100		656	J	876	
143-B5	PPG-143-B5C_2.9-3.4_798413	B693	798413	2.9 - 3.4	12.9	10	9.5	01/09/2007	Yes	11.9	J	40.9	J	13300		247		32500	J	560	
143-B5	PPG-143-B5D_3.5-4.1_798414	B693	798414	3.5 - 4.1	12.9	9.4	8.8	01/09/2007	Yes	5.1	J	13.5	J	13000		69.7		2400	J	306	
143-B5	PPG-143-B5E_6.5-7.0_799362	B818	799362	6.5 - 7.0	12.9	6.4	5.9	01/11/2007	Yes	5.6		9.3	BJ	11900		36.2	J	2460	J	141	J
143-B5	PPG-143-B5F_8.8-9.5_799363	B818	799363	8.8 - 9.5	12.9	4.1	3.4	01/11/2007	Yes	6.4		49.2	J	31000		**420**	**J**	1750	J	326	J
143-B5	PPG-143-B5G_9.5-9.9_799364	B818	799364	9.5 - 9.9	12.9	3.4	3	01/11/2007	Yes	10.3		50.9	J	40600		367	J	1700	J	221	J
143-B5	PPG-143-B5H_9.9-10.6_799365	B818	799365	9.9 - 10.6	12.9	3	2.3	01/11/2007	Yes	3.5		1340	J	14100		**792**	**J**	982	J	118	J
143-B5	PPG-143-B5HDUP_9.9-10.6_799366	B818	799366	9.9 - 10.6	12.9	3	2.3	01/11/2007	Yes	6.1		2300	J	22200		**2020**	**J**	1460	J	204	J
143-B5	PPG-143-B5I_12.6-13.1_799367	B818	799367	12.6 - 13.1	12.9	0.3	-0.2	01/11/2007	Yes	5.2		44.6	J	9070		**417**	**J**	799	J	124	J
143-B5	PPG-143-B5J_13.1-13.9_799368	B818	799368	13.1 - 13.9	12.9	-0.2	-1	01/11/2007	Yes	8.5		264	J	26400		125	J	3870	J	259	J
143-B5	PPG-143-B5K_17.1-17.6_799369	B818	799369	17.1 - 17.6	12.9	-4.2	-4.7	01/11/2007	Yes	3.9		5.4	BJ	10500		5.9	BJ	2100	J	54	J
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	5.9		41.7		20900	J	133	J	1180		261	
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	9.6		57.9		53400	J	101	J	1190		456	
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	37.9		133		40100		**459**		8550		630	J
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	21.2		74.5		18800		298		3800		416	J
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	4.2	J	9.0		8860		56.8		1860		265	J
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	8.8		129		16200		**1280**		987		1850	J
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	5.1	J	14.6		16800		66.5		2860		1210	J
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	6.8		18.4		17100		94.2		3000		716	J
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	4.4	J	18.5		14600		92.0		3440		375	J
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	14.0		18.3		13700		104		2950		504	J
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	4.7	J	9.5		12000		14.4		2180		455	J
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	5.5	J	12.3		16100		26.9		2460		265	J
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	8.9	J	21.8	J	31000	J	51.9	J	4840	J	461	J
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	16.4		480		39400		**1120**		4430		1040	J
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	6.6		68.5		17300		273		2700		360	J
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	7.6		**5500**		17900		**3110**		2460		198	J
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	9.0	J	257	J	35300	J	**16900**	**J**	2400	J	374	J
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	8.3		786		23700		**750**		2250		230	J
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	14.9	J	25.7	J	42400	J	80.1	J	5750	J	535	J
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	6.5		19.8		15200		19.4		5280		215	J
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	6.1	J	15.2	J	17300	J	36.5	J	4490	J	243	J
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	4.9	J	5.6		11500		7.3		546	J	88.6	
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	4.6	J	5.5		25000		8.0		568		146	
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	6.1		33.4		13200		41.1		4640		203	
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	5.8		30.5		13200		37.8		4670		231	
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	5.1	J	26.8		13900		32.8		7540		209	
PSEG-SB52	PSEG-SB52A(1.0-1.5)J47237-1	J47237	J47237-1	1.0 - 1.5	11.1	10.1	9.6	11/22/2006	Yes	38.1		144		38300	J	**3700**	**J**	7900		499	J
PSEG-SB52	PSEG-SB52B(6.0-6.5)J47237-2	J47237	J47237-2	6.0 - 6.5	11.1	5.1	4.6	11/22/2006	Yes	< 8.3	U	42.5		9010	J	161	J	1030		73.4	J
PSEG-SB52	PSEG-SB52BD(6.0-6.5)J47237-3	J47237	J47237-3	6.0 - 6.5	11.1	5.1	4.6	11/22/2006	Yes	< 8.3	U	41.6		6890	J	273	J	1090		80.5	J
PSEG-SB52	PSEG-SB52C(8.5-9.0)J47237-5	J47237	J47237-5	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	Yes	< 11	U	21.6		28200	J	48.8	J	3620		129	J
PSEG-SB52	PSEG-SB52D(9.0-9.1)J47237-6	J47237	J47237-6	9.0 - 9.1	11.1	2.1	2	11/22/2006	Yes	11.4		20.4		18800	J	24.3	J	1130		53.1	J
PSEG-SB52	PSEG-SB52E(10.0-10.5)J47237-7	J47237	J47237-7	10.0 - 10.5	11.1	1.1	0.6	11/22/2006	Yes	< 6.3	U	13.8		9560	J	46.4	J	2450		123	J
PSEG-SB52	PSEG-SB52F(12.0-13.0)J47237-8	J47237	J47237-8	12.0 - 13.0	11.1	-0.9	-1.9	11/22/2006	Yes	< 5.8	U	9.7		10300	J	22	J	2470		274	J
PSEG-SB52	PSEG-SB52G(14.2-14.9)J47237-9	J47237	J47237-9	14.2 - 14.9	11.1	-3.1	-3.8	11/22/2006	Yes	6		11.9		13200	J	18		3630		689	J
PSEG-SB52	PSEG-SB52GD(14.2-14.9)J47237-10	J47237	J47237-10	14.2 - 14.9	11.1	-3.1	-3.8	11/22/2006	Yes	< 5.9	U	12		17300	J	16.1		3140		1970	J
PSEG-SB52	PSEG-SB52H(16.0-16.5)J47368-9	J47368	J47368-9	16.0 - 16.5	11.1	-4.9	-5.4	11/27/2006	Yes	< 10	U	16.2		23900		15.7		6140		184	
PSEG-SB52	PSEG-SB52I(19.0-20.0)J47368-10	J47368	J47368-10	19.0 - 20.0	11.1	-7.9	-8.9	11/27/2006	Yes	10.2		17.4		35400		13.1		7010		412	
PSEG-SB52	PSEG-SB52ID(19.0-20.0)J47368-11	J47368	J47368-11	19.0 - 20.0	11.1	-7.9	-8.9	11/27/2006	Yes	10.8		17.3		36400		12.9		7340		425	
PSEG-SB52	PSEG-SB52J(20.0-21.0)J47368-12	J47368	J47368-12	20.0 - 21.0	11.1	-8.9	-9.9	11/27/2006	Yes	< 8.9	U	10.2		8340		10.8		2930		29.2	
PSEG-SB52	PSEG-SB52K(21.0-21.2)J47368-13	J47368	J47368-13	21.0 - 21.2	11.1	-9.9	-10.1	11/27/2006	Yes	< 6.3	U	13.0		9130		9.4		2240		59.3	
PSEG-SB54	PSEG-SB54A(1.0-1.5)J47368-1	J47368	J47368-1	1.0 - 1.5	10.2	9.2	8.7	11/27/2006	Yes							16.5					
PSEG-SB54	PSEG-SB54B(4.0-4.5)J47368-2	J47368	J47368-2	4.0 - 4.5	10.2	6.2	5.7	11/27/2006	Yes							249					
PSEG-SB54	PSEG-SB54C(6.5-7.1)J47368-3	J47368	J47368-3	6.5 - 7.1	10.2	3.7	3.1	11/27/2006	Yes							21.1					
PSEG-SB54	PSEG-SB54D(12.0-12.5)J47368-4	J47368	J47368-4	12.0 - 12.5	10.2	-1.8	-2.3	11/27/2006	Yes							20.2					
PSEG-SB54	PSEG-SB54E(14.5-15.0)J47368-5	J47368	J47368-5	14.5 - 15.0	10.2	-4.3	-4.8	11/27/2006	Yes							10.5					

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Table 1A
Validated Non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										MERCURY 7439-97-6 mg/kg 23		POTASSIUM 7440-09-7 mg/kg		SELENIUM 7782-49-2 mg/kg 390		SILVER 7440-22-4 mg/kg 390		SODIUM 7440-23-5 mg/kg		ZINC 7440-66-6 mg/kg 23000	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes	0.20		< 580	UJ	< 2.3	UJ	< 1.2	U	< 1200	UJ	532	J
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes	< 0.040	U	< 650	U	< 2.6	UJ	< 1.3	U	< 1300	U	27.1	
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	0.055		< 640	UJ	< 2.5	UJ	< 1.3	U	< 1300	UJ	29.9	J
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 0.041	U	< 620	UJ	< 2.5	UJ	< 1.2	U	< 1200	UJ	26.5	J
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes	< 0.038	U	1590	J	< 2.4	UJ	< 1.2	U	< 1200	UJ	58.4	J
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes	< 0.038	U	771	J	< 2.3	UJ	< 1.2	U	< 1200	UJ	50.3	J
133-EE23A-PB	133-EE23A-PB-3.5-4.0	JC15148	JC15148-1A	3.5 - 4.0	9.5	6	5.5	03/01/2016	Yes	8.4											
133RI-EE23A-SW-N1	133RI-EE23A-SW-N-1.0-1.5	JC15330	JC15330-1A	1.0 - 1.5	9.5	8.5	8	03/03/2016	Yes	3.2											
135-B19	135-B19A (1.3-1.8)J49116-8	J49116	J49116-8	1.3 - 1.8	9.9	8.6	8.1	12/13/2006	Yes	1.9		< 580	U	< 2.3	U	< 1.2	U	< 1200	U	215	J
135-B19	135-B19B (3.3-3.8)J49116-9	J49116	J49116-9	2.1 - 2.6	9.9	7.8	7.3	12/13/2006	Yes	1.8		< 630	U	< 2.5	U	< 1.3	U	< 1300	U	1450	J
135-B19	135 B19C(3.3-3.8)J49116-17	J49116	J49116-17	3.3 - 3.8	9.9	6.6	6.1	12/13/2006	Yes	0.94		< 670	U	< 2.7	U	< 1.3	U	< 1300	U	360	J
135-B19	PPG-135-B19D_5.1-5.6_796867	B400	796867	5.1 - 5.6	9.9	4.8	4.3	01/02/2007	Yes	0.05		3280		< 1.5	U	< 0.38	U	2460		82.9	
135-B19	PPG-135-B19E_9.4-9.9_796868	B400	796868	9.4 - 9.9	9.9	0.5	0	01/02/2007	Yes	0.64		2430		< 1.5	U	< 0.38	U	1620		666	
135-B19	PPG-135-B19F_13.2-13.7_796869	B400	796869	13.2 - 13.7	9.9	-3.3	-3.8	01/02/2007	Yes	0.03		2650		< 1.6	U	< 0.41	U	4500		84.4	
135-B19	PPG-135-B19G_17.2-18.2_796870	B400	796870	17.2 - 18.2	9.9	-7.3	-8.3	01/02/2007	Yes	< 0.032	U	3960		< 1.8	U	< 0.46	U	5890		85.7	
135-B19	PPG-135-B19GD_17.2-18.2_796871	B400	796871	17.2 - 18.2	9.9	-7.3	-8.3	01/02/2007	Yes	< 0.032	U	2950		< 1.8	U	< 0.46	U	7210		52.8	
135-B19	PPG-135-B19H_20.2-20.7_796872	B400	796872	20.2 - 20.7	9.9	-10.3	-10.8	01/02/2007	Yes	< 0.021	U	1490		< 1.2	U	< 0.3	U	1670		49.9	
143-B5	PPG-143-B5A_1.0-1.5_798411	B693	798411	1.0 - 1.5	12.9	11.9	11.4	01/09/2007	Yes	0.28	J	408		1.1		< 0.28	U	179		210	
143-B5	PPG-143-B5B_2.0-2.5_798412	B693	798412	2.0 - 2.5	12.9	10.9	10.4	01/09/2007	Yes	0.23	BJ	630	J	< 1.7	U	< 0.43	U	213		84.8	
143-B5	PPG-143-B5C_2.9-3.4_798413	B693	798413	2.9 - 3.4	12.9	10	9.5	01/09/2007	Yes	0.38	J	450	J	< 1.3	U	< 0.32	U	197		184	
143-B5	PPG-143-B5D_3.5-4.1_798414	B693	798414	3.5 - 4.1	12.9	9.4	8.8	01/09/2007	Yes	0.38	J	1030	J	< 1.1	U	< 0.28	U	221		138	
143-B5	PPG-143-B5E_6.5-7.0_799362	B818	799362	6.5 - 7.0	12.9	6.4	5.9	01/11/2007	Yes	0.21		477	J	< 0.97	U	< 0.32	U	310		53.2	J
143-B5	PPG-143-B5F_8.8-9.5_799363	B818	799363	8.8 - 9.5	12.9	4.1	3.4	01/11/2007	Yes	0.42		509	J	1.3		< 0.37	U	354		490	J
143-B5	PPG-143-B5G_9.5-9.9_799364	B818	799364	9.5 - 9.9	12.9	3.4	3	01/11/2007	Yes	2.2		541	J	< 1	U	< 0.34	U	288		3260	J
143-B5	PPG-143-B5H_9.9-10.6_799365	B818	799365	9.9 - 10.6	12.9	3	2.3	01/11/2007	Yes	12.1		472	J	1		1.2		155		1100	J
143-B5	PPG-143-B5HDUP_9.9-10.6_799366	B818	799366	9.9 - 10.6	12.9	3	2.3	01/11/2007	Yes	8.2		405	J	1.2		0.71		196		1060	J
143-B5	PPG-143-B5I_12.6-13.1_799367	B818	799367	12.6 - 13.1	12.9	0.3	-0.2	01/11/2007	Yes	2.7		607	J	3.3		< 0.44	U	329		169	J
143-B5	PPG-143-B5J_13.1-13.9_799368	B818	799368	13.1 - 13.9	12.9	-0.2	-1	01/11/2007	Yes	0.26		1190	J	< 1.4	U	< 0.48	U	426		182	J
143-B5	PPG-143-B5K_17.1-17.6_799369	B818	799369	17.1 - 17.6	12.9	-4.2	-4.7	01/11/2007	Yes	< 0.02	U	763	BJ	< 1	U	< 0.33	U	327		29.6	J
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	0.13		390	J	1.0		< 0.96	UJ	177	J	192	J
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	0.39		431	J	1.0		< 0.93	UJ	130	J	231	J
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	0.025	J	1080	J	< 0.55	U	1.9		1290		500	
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	0.79		855	J	< 0.54	U	1.1	J	801	J	423	
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	0.024	J	811	J	< 0.50	U	< 0.11	U	289	J	54.7	
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	2.2		1420	J	2.7		0.37	J	1430		504	
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	0.19		1280	J	< 0.54	U	< 0.11	U	433	J	771	
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.073		1550	J	< 0.47	U	< 0.10	U	788	J	306	
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.13		1560	J	< 0.48	U	< 0.10	U	1360		291	
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	0.033	J	1250	J	< 0.57	U	< 0.12	U	722	J	710	
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	0.019	J	1100	J	< 0.56	U	< 0.12	U	582	J	99.9	
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	0.029	J	1220	J	< 0.55	U	< 0.12	U	1480		188	
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	0.10	J	2790	J	< 0.46	UJ	< 0.099	UJ	5080	J	227	J
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	2.1		1070	J	1.7	J	1.7		896	J	1750	
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	0.48		1200	J	0.69	J	< 0.12	U	564	J	935	
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	1.4		1570	J	3.6		1.1		1620		2330	
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	4.6	J	3560	J	4.3	J	4.4	J	6660	J	2780	J
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	4.6		2220	J	9.1		0.26	J	2400		507	
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	0.80	J	4420	J	< 0.93	UJ	0.68	J	2590	J	428	J
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.0056	U	2280	J	< 0.51	U	< 0.11	U	1360		84.0	
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	0.17	J	3140	J	< 0.46	UJ	< 0.099	UJ	4830	J	91.6	J
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	0.019	J	409	J	< 0.37	U	0.31	J	234	J	18.1	
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	0.031	J	489	J	< 0.37	U	0.53	J	235	J	20.3	
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	0.20		779	J	0.44	J	0.61		676	J	59.0	
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	0.16		1200		< 0.33	U	0.57		1610		54.1	
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	0.090		1450		< 0.35	U	0.72		1920		46.1	
PSEG-SB52	PSEG-SB52A(1.0-1.5)J47237-1	J47237	J47237-1	1.0 - 1.5	11.1	10.1	9.6	11/22/2006	Yes	1.6	J	1010		< 2.4	U	< 1.2	U	2620		2270	J
PSEG-SB52	PSEG-SB52B(6.0-6.5)J47237-2	J47237	J47237-2	6.0 - 6.5	11.1	5.1	4.6	11/22/2006	Yes	0.1	J	2240		< 3.3	U	< 1.7	U	4940		91.4	
PSEG-SB52	PSEG-SB52BD(6.0-6.5)J47237-3	J47237	J47237-3	6.0 - 6.5	11.1	5.1	4.6	11/22/2006	Yes	0.13	J	2160		< 3.3	U	< 1.7	U	4710		104	
PSEG-SB52	PSEG-SB52C(8.5-9.0)J47237-5	J47237	J47237-5	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	Yes	< 0.073	UJ	4010		< 4.3	U	< 2.2	U	4450		66.9	J
PSEG-SB52	PSEG-SB52D(9.0-9.1)J47237-6	J47237	J47237-6	9.0 - 9.1	11.1	2.1	2	11/22/2006	Yes	< 0.059	UJ	2850		< 4	U	< 2	U	4070		28	J
PSEG-SB52	PSEG-SB52E(10.0-10.5)J47237-7	J47237	J47237-7	10.0 - 10.5	11.1	1.1	0.6	11/22/2006	Yes	0.23	J	944		< 2.5	U	< 1.3	U	< 1300	U	181	J
PSEG-SB52	PSEG-SB52F(12.0-13.0)J47237-8	J47237	J47237-8	12.0 - 13.0	11.1	-0.9	-1.9	11/22/2006	Yes	< 0.034	UJ	1080		< 2.3	U	< 1.2	U	< 1200	U	103	J
PSEG-SB52	PSEG-SB52G(14.2-14.9)J47237-9	J47237	J47237-9	14.2 - 14.9	11.1	-3.1	-3.8	11/22/2006	Yes	< 0.037	UJ	1320		< 2.3	U	< 1.2	U	< 1200	U	401	J
PSEG-SB52	PSEG-SB52GD(14.2-14.9)J47237-10	J47237	J47237-10	14.2 - 14.9	11.1	-3.1	-3.8	11/22/2006	Yes	< 0.037	UJ	1080		< 2.4	U	< 1.2	U	< 1200	U	980	J
PSEG-SB52	PSEG-SB52H(16.0-16.5)J47368-9	J47368	J47368-9	16.0 - 16.5	11.1	-4.9	-5.4	11/27/2006	Yes	< 0.067	U	3490	J	< 4.2	U	< 2.1	U	5860	J	77.5	
PSEG-SB52	PSEG-SB52I(19.0-20.0)J47368-10	J47368	J47368-10	19.0 - 20.0	11.1	-7.9	-8.9	11/27/2006	Yes	< 0.058	U	3090	J	< 3.7	U	< 1.8	U	5120	J	77.7	
PSEG-SB52	PSEG-SB52ID(19.0-20.0)J47368-11	J47368	J47368-11	19.0 - 20.0	11.1	-7.9	-8.9	11/27/2006	Yes	< 0.057	U	3250	J	< 3.8	U	< 1.9	U	4960	J	82.8	
PSEG-SB52	PSEG-SB52J(20.0-21.0)J47368-12	J47368	J47368-12	20.0 - 21.0	11.1	-8.9	-9.9	11/27/2006	Yes	< 0.058	U	2330	J	< 3.6	U	< 1.8	U	5480	J	41.7	
PSEG-SB52	PSEG-SB52K(21.0-21.2)J47368-13	J47368	J47368-13	21.0 - 21.2	11.1	-9.9	-10.1	11/27/2006	Yes	0.039		1380	J	< 2.5	U	< 1.3	U	1730	J	45.1	
PSEG-SB54	PSEG-SB54A(1.0-1.5)J47368-1	J47368	J47368-1	1.0 - 1.5	10.2	9.2	8.7	11/27/2006	Yes												
PSEG-SB54	PSEG-SB54B(4.0-4.5)J47368-2	J47368	J47368-2	4.0 - 4.5	10.2	6.2	5.7	11/27/2006	Yes												
PSEG-SB54	PSEG-SB54C(6.5-7.1)J47368-3	J47368	J47368-3	6.5 - 7.1	10.2	3.7	3.1	11/27/2006	Yes												
PSEG-SB54	PSEG-SB54D(12.0-12.5)J47368-4	J47368	J47368-4	12.0 - 12.5	10.2	-1.8	-2.3	11/27/2006	Yes												
PSEG-SB54	PSEG-SB54E(14.5-15.0)J47368-5	J47368	J47368-5	14.5 - 15.0	10.2	-4.3	-4.8	11/27/2006	Yes												

Notes on last page

Table 1A
Validated Non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
B - The result is qualified due to potential laboratory blank contamination.
BJ - Result was negated and estimated since the sample result was greater than 3 times but less than 10 times the maximum instrument blank concentration.
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
JB - Analyte concentration is greater than 3 times, but less than 10 times the concentration in the associated method blank. Presence of that analyte in the sample is considered "real". The concentration is quantitatively qualified (JB) due to method blank contamination.
U - Indicates that the analyte was not detected at the reported Method Detection Limit.
UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group

Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										1,1,1-TRICHLOROETHANE 71-55-6 mg/kg 160000		1,1,2,2-TETRACHLOROETHANE 79-34-5 mg/kg 1		1,1,2-TRICHLOROETHANE 79-00-5 mg/kg 2		1,1,2-TRICHLOROTRIFLUOROETHANE 76-13-1 mg/kg		1,1-DICHLOROETHANE 75-34-3 mg/kg 8		1,1-DICHLOROETHYLENE 75-35-4 mg/kg 11		1,2,3-TRICHLOROBENZENE 87-61-6 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.027	U	< 0.0093	U	< 0.01	U	< 0.031	U	< 0.011	U	< 0.015	U	< 0.089	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00019	U	< 0.00078	U	< 0.00061	U	< 0.00049	U	< 0.00026	U	< 0.00038	U	< 0.00067	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00019	U	< 0.00027	U	< 0.00036	U	< 0.00054	U	< 0.00021	U	< 0.00017	U	< 0.00025	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00026	U	< 0.00037	U	< 0.00050	U	< 0.00075	U	< 0.00029	U	< 0.00024	U	< 0.00035	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00019	U	< 0.00027	U	< 0.00037	U	< 0.00055	U	< 0.00021	U	< 0.00018	U	< 0.00026	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.00020	U	< 0.00029	U	< 0.00039	U	< 0.00059	U	< 0.00023	U	< 0.00019	U	< 0.00028	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00015	U	< 0.00022	U	< 0.00029	U	< 0.00044	U	< 0.00017	U	< 0.00014	U	< 0.00020	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00029	U	< 0.00041	U	< 0.00055	U	< 0.00083	U	< 0.00032	U	< 0.00026	U	< 0.00039	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00040	U	< 0.00058	U	< 0.00078	U	< 0.0012	U	< 0.00045	U	< 0.00037	U	< 0.00055	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.00015	U	< 0.00021	U	< 0.00028	U	< 0.00043	U	< 0.00016	U	< 0.00013	U	< 0.00020	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.00017	U	< 0.00024	U	< 0.00033	U	< 0.00049	U	< 0.00019	U	< 0.00016	U	< 0.00023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.00019	U	< 0.00027	U	< 0.00037	U	< 0.00055	U	< 0.00021	U	< 0.00017	U	< 0.00026	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.00044	UJ	< 0.00063	UJ	< 0.00085	UJ	< 0.0013	UJ	< 0.00049	UJ	< 0.00040	UJ	< 0.00059	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.00021	U	< 0.00030	U	< 0.00041	U	< 0.00061	U	< 0.00023	U	< 0.00019	U	< 0.00028	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.00017	U	< 0.00024	U	< 0.00033	U	< 0.00049	U	< 0.00019	U	< 0.00016	U	< 0.00023	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.00033	U	< 0.00048	U	< 0.00064	U	< 0.00097	U	< 0.00037	U	< 0.00031	U	< 0.00045	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.053	UJ	< 0.076	UJ	< 0.1	UJ	< 0.15	UJ	< 0.06	UJ	< 0.049	UJ	< 0.072	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.023	U	< 0.033	U	< 0.045	U	< 0.067	U	< 0.026	U	< 0.021	U	< 0.031	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.03	UJ	< 0.043	UJ	< 0.058	UJ	< 0.087	UJ	< 0.034	UJ	< 0.027	UJ	< 0.041	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.00016	U	< 0.00023	U	< 0.00031	U	< 0.00046	U	< 0.00018	U	< 0.00015	U	< 0.00022	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.00045	UJ	< 0.00064	UJ	< 0.00087	UJ	< 0.0013	UJ	< 0.00050	UJ	< 0.00041	UJ	< 0.00061	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00012	U	< 0.00019	U	< 0.00020	U	< 0.00048	U	< 0.00016	U	< 0.00025	U	< 0.00018	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00014	U	< 0.00021	U	< 0.00022	U	< 0.00053	U	< 0.00018	U	< 0.00027	U	< 0.00020	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00015	U	< 0.00024	U	< 0.00024	U	< 0.00059	U	< 0.00020	U	< 0.00030	U	< 0.00022	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.00014	U	< 0.00021	U	< 0.00021	U	< 0.00053	U	< 0.00018	U	< 0.00027	U	< 0.00020	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.00015	U	< 0.00023	U	< 0.00023	U	< 0.00057	U	< 0.00020	U	< 0.00029	U	< 0.00022	U

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	1,2,4-TRICHLOROBENZENE 120-82-1 mg/kg 73		1,2-DIBROMO-3-CHLOROPROPANE (DBCP) 96-12-8 mg/kg 0.08		1,2-DIBROMOETHANE(EDB) 106-93-4 mg/kg 0.008		1,2-DICHLOROBENZENE 95-50-1 mg/kg 5300		1,2-DICHLOROETHANE 107-06-2 mg/kg 0.9		1,2-DICHLOROPROPANE 78-87-5 mg/kg 2		1,4-DICHLOROBENZENE 106-46-7 mg/kg 5	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.047	U	< 0.017	U	**< 0.0098**	**U**	< 0.018	U	< 0.026	U	< 0.0094	U	< 0.016	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00055	U	< 0.00063	U	< 0.00053	U	< 0.00066	U	< 0.00040	U	< 0.00033	U	< 0.00073	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00020	U	< 0.00054	U	< 0.00027	U	< 0.00019	U	< 0.00019	U	< 0.00034	U	< 0.00017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00028	U	< 0.00075	U	< 0.00038	U	< 0.00027	U	< 0.00027	U	< 0.00048	U	< 0.00024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00021	U	< 0.00055	U	< 0.00028	U	< 0.00020	U	< 0.00020	U	< 0.00035	U	< 0.00018	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.00022	U	< 0.00059	U	< 0.00030	U	< 0.00021	U	< 0.00021	U	< 0.00038	U	< 0.00019	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00016	U	< 0.00044	U	< 0.00022	U	< 0.00015	U	< 0.00015	U	< 0.00028	U	< 0.00014	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00031	U	< 0.00083	U	< 0.00041	U	< 0.00029	U	< 0.00029	U	< 0.00053	U	< 0.00026	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00044	U	< 0.0012	U	< 0.00059	U	< 0.00041	U	< 0.00041	U	< 0.00075	U	< 0.00037	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.00016	U	< 0.00043	U	< 0.00021	U	< 0.00015	U	< 0.00015	U	< 0.00027	U	< 0.00013	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.00019	U	< 0.00049	U	< 0.00025	U	< 0.00017	U	< 0.00017	U	< 0.00031	U	< 0.00016	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.00021	U	< 0.00055	U	< 0.00028	U	< 0.00020	U	< 0.00020	U	< 0.00035	U	< 0.00017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.00048	UJ	< 0.0013	UJ	< 0.00064	UJ	< 0.00045	UJ	< 0.00045	UJ	< 0.00081	UJ	< 0.00040	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.00023	U	< 0.00061	U	< 0.00030	U	< 0.00021	U	< 0.00021	U	< 0.00039	U	< 0.00019	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.00019	U	< 0.00049	U	< 0.00025	U	< 0.00017	U	< 0.00017	U	< 0.00032	U	< 0.00016	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.00036	U	< 0.00097	U	< 0.00048	U	< 0.00034	U	< 0.00034	U	< 0.00062	U	< 0.00031	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.058	UJ	**< 0.15**	**UJ**	**< 0.077**	**UJ**	< 0.055	UJ	< 0.055	UJ	< 0.099	UJ	< 0.049	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.025	U	< 0.067	U	**< 0.034**	**U**	< 0.024	U	< 0.024	U	< 0.043	U	< 0.021	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.033	UJ	**< 0.087**	**UJ**	**< 0.043**	**UJ**	< 0.031	UJ	< 0.031	UJ	< 0.055	UJ	< 0.027	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.00017	U	< 0.00046	U	< 0.00023	U	< 0.00016	U	< 0.00016	U	< 0.00029	U	< 0.00015	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.00049	UJ	< 0.0013	UJ	< 0.00065	UJ	< 0.00046	UJ	< 0.00046	UJ	< 0.00083	UJ	< 0.00041	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00016	U	< 0.00035	U	< 0.00016	U	< 0.00017	U	< 0.00023	U	< 0.00015	U	< 0.00015	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00018	U	< 0.00038	U	< 0.00018	U	< 0.00018	U	< 0.00025	U	< 0.00017	U	< 0.00016	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00020	U	< 0.00043	U	< 0.00020	U	< 0.00021	U	< 0.00028	U	< 0.00019	U	< 0.00018	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.00017	U	< 0.00038	U	< 0.00018	U	< 0.00018	U	< 0.00025	U	< 0.00017	U	< 0.00016	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.00019	U	< 0.00041	U	< 0.00019	U	< 0.00020	U	< 0.00027	U	< 0.00018	U	< 0.00017	U

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	1,4-DIOXANE 123-91-1 mg/kg		2-BUTANONE (MEK) 78-93-3 mg/kg 3100		4-METHYL-2-PENTANONE (MIBK) 108-10-1 mg/kg		ACETONE 67-64-1 mg/kg 70000		BENZENE 71-43-2 mg/kg 2		BROMODICHLOROMETHANE 75-27-4 mg/kg 1		BROMOMETHANE 74-83-9 mg/kg 25	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.91	U	< 0.088	U	< 0.073	U	< 0.27	U	0.049	J	< 0.0096	U	< 0.034	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.0043	U	0.0079	J	< 0.00074	U	0.052		< 0.00076	U	< 0.00031	U	< 0.00042	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes			< 0.0020	U	< 0.00094	U	< 0.0021	U	< 0.00013	U	< 0.00017	U	< 0.00054	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes			< 0.0027	U	< 0.0013	U	< 0.0029	U	< 0.00019	U	< 0.00024	U	< 0.00075	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes			< 0.0020	U	< 0.00097	U	< 0.0021	U	< 0.00014	U	< 0.00017	U	< 0.00055	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes			< 0.0022	U	< 0.0010	U	0.0261		< 0.00015	U	< 0.00019	U	< 0.00059	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes			< 0.0016	U	< 0.00077	U	0.0056	J	< 0.00011	U	< 0.00014	U	< 0.00044	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes			< 0.0030	U	< 0.0015	U	0.0662	J	< 0.00021	U	< 0.00026	U	< 0.00083	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes			0.0260		< 0.0021	U	0.188	J	< 0.00029	U	< 0.00037	U	< 0.0012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes			< 0.0015	U	< 0.00075	U	0.0221		< 0.00011	U	< 0.00013	U	< 0.00043	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes			< 0.0018	U	< 0.00086	U	0.0291		< 0.00012	U	< 0.00015	U	< 0.00049	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes			< 0.0020	U	< 0.00097	U	0.0146		< 0.00014	U	< 0.00017	U	< 0.00055	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes			< 0.0046	UJ	< 0.0022	UJ	0.0657	J	< 0.00032	UJ	< 0.00040	UJ	< 0.0013	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes			< 0.0022	U	< 0.0011	U	0.0085	J	< 0.00015	U	< 0.00019	U	< 0.00061	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes			< 0.0018	U	< 0.00087	U	0.0185	J	< 0.00012	U	< 0.00016	U	< 0.00050	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes			< 0.0035	U	< 0.0017	U	0.0390		< 0.00024	U	< 0.00030	U	< 0.00097	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes			< 0.56	UJ	< 0.27	UJ	< 0.6	UJ	0.0680	J	< 0.049	UJ	< 0.16	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes			< 0.24	U	< 0.12	U	< 0.26	U	0.713		< 0.021	U	< 0.067	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes			< 0.32	UJ	< 0.15	UJ	< 0.34	UJ	0.141	J	< 0.027	UJ	< 0.087	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes			< 0.0017	U	< 0.00081	U	0.0123		< 0.00011	U	< 0.00014	U	< 0.00046	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes			< 0.0047	UJ	< 0.0023	UJ	0.0388	J	0.0034	J	< 0.00041	UJ	< 0.0013	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes			< 0.0017	U	< 0.00048	U	< 0.0022	U	< 0.00016	U	< 0.00018	U	< 0.00026	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes			< 0.0018	U	< 0.00052	U	< 0.0024	U	< 0.00017	U	< 0.00020	U	< 0.00028	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes			< 0.0020	U	< 0.00058	U	< 0.0027	UJ	< 0.00019	U	< 0.00022	U	< 0.00032	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes			< 0.0018	U	< 0.00052	U	< 0.0024	UJ	0.00051		< 0.00020	U	< 0.00028	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes			< 0.0020	U	< 0.00057	U	< 0.0026	UJ	0.00095		< 0.00022	U	< 0.00031	U

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte	CARBON DISULFIDE		CARBON TETRACHLORIDE		CHLOROBENZENE		CHLOROBROMO METHANE		CHLORODIBROMO METHANE		CHLOROETHANE		CHLOROFORM	
									CAS RN	75-15-0		56-23-5		108-90-7		74-97-5		124-48-1		75-00-3		67-66-3	
									Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									MSSRS	7800		2		510				3		220		0.6	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.016	U	< 0.019	U	< 0.018	U	< 0.019	U	< 0.011	U	< 0.048	U	< 0.017	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00048	U	< 0.00010	U	< 0.00050	U	< 0.00028	U	< 0.00058	U	< 0.00041	U	< 0.00024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00019	U	< 0.00018	U	< 0.00018	U	< 0.00035	U	< 0.00017	U	< 0.00048	U	< 0.00026	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00026	U	< 0.00026	U	< 0.00025	U	< 0.00049	U	< 0.00023	U	< 0.00067	U	< 0.00037	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00019	U	< 0.00019	U	< 0.00019	U	< 0.00036	U	< 0.00017	U	< 0.00049	U	< 0.00027	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	0.00072	J	< 0.00020	U	< 0.00020	U	< 0.00039	U	< 0.00018	U	< 0.00052	U	< 0.00029	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00015	U	< 0.00015	U	< 0.00015	U	< 0.00029	U	< 0.00014	U	< 0.00039	U	< 0.00021	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0022	J	< 0.00028	U	< 0.00028	U	< 0.00055	U	< 0.00026	U	< 0.00073	U	< 0.00041	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0083	J	< 0.00040	U	< 0.00039	U	< 0.00077	U	< 0.00036	U	< 0.0010	U	< 0.00058	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	0.00030	J	< 0.00015	U	< 0.00014	U	< 0.00028	U	< 0.00013	U	< 0.00038	U	< 0.00021	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	0.00051	J	< 0.00017	U	< 0.00016	U	< 0.00032	U	< 0.00015	U	< 0.00044	U	< 0.00024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	0.0022	J	< 0.00019	U	< 0.00019	U	< 0.00036	U	< 0.00017	U	< 0.00049	U	< 0.00027	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	0.0134	J	< 0.00044	UJ	< 0.00043	UJ	< 0.00084	UJ	< 0.00039	UJ	< 0.0011	UJ	< 0.00063	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	0.00045	J	< 0.00021	U	< 0.00020	U	< 0.00040	U	< 0.00019	U	< 0.00054	U	< 0.00030	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.00017	U	< 0.00017	U	< 0.00017	U	< 0.00033	U	< 0.00015	U	< 0.00044	U	< 0.00024	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	0.0014	J	< 0.00033	U	< 0.00032	U	< 0.00064	U	< 0.00030	U	< 0.00086	U	< 0.00048	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	0.306	J	< 0.053	UJ	< 0.052	UJ	< 0.1	UJ	< 0.048	UJ	< 0.14	UJ	< 0.076	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	0.0635	J	< 0.023	U	< 0.022	U	< 0.044	U	< 0.021	U	< 0.06	U	< 0.033	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	0.184	J	< 0.03	UJ	< 0.029	UJ	< 0.057	UJ	< 0.027	UJ	< 0.077	UJ	< 0.043	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	0.0014	J	< 0.00016	U	< 0.00015	U	< 0.00030	U	< 0.00014	U	< 0.00041	U	< 0.00023	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.00046	UJ	< 0.00045	UJ	< 0.00043	UJ	< 0.00086	UJ	< 0.00040	UJ	< 0.0012	UJ	< 0.00064	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00026	U	< 0.00013	U	< 0.00012	U	< 0.00025	U	< 0.00016	U	< 0.00025	U	< 0.00012	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00028	U	< 0.00014	U	< 0.00014	U	< 0.00027	U	< 0.00017	U	< 0.00028	U	< 0.00013	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00032	U	< 0.00015	U	< 0.00015	U	< 0.00030	U	< 0.00019	U	< 0.00031	U	< 0.00015	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	0.0012	J	< 0.00014	U	< 0.00013	U	< 0.00027	U	< 0.00017	U	< 0.00028	U	< 0.00013	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	0.0022		< 0.00015	U	< 0.00015	U	< 0.00029	U	< 0.00018	U	< 0.00030	U	< 0.00014	U

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte CAS RN Units MSSRS	CHLOROMETHANE 74-87-3 mg/kg 4		CIS-1,2-DICHLOROETHENE 156-59-2 mg/kg 230		CIS-1,3-DICHLOROPROPENE 10061-01-5 mg/kg 2		CYCLOHEXANE 110-82-7 mg/kg		DICHLORODIFLUOROMETHANE 75-71-8 mg/kg 490		DICHLOROMETHANE 75-09-2 mg/kg 46		ETHYLBENZENE 100-41-4 mg/kg 7800	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.023	U	< 0.021	U	< 0.011	U	< 0.013	U	< 0.031	U	< 0.021	U	0.043	J
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00065	U	< 0.00024	U	< 0.00021	U	0.00089	J	< 0.00042	U	0.0015		< 0.00020	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00023	U	< 0.00049	U	< 0.00022	U	< 0.00061	U	< 0.00060	U	< 0.00038	U	< 0.00017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00033	U	< 0.00068	U	< 0.00030	U	< 0.00085	U	< 0.00084	U	< 0.00053	U	< 0.00023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00024	U	< 0.00050	U	< 0.00022	U	< 0.00062	U	< 0.00062	U	< 0.00039	U	< 0.00017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.00026	U	< 0.00054	U	< 0.00024	U	< 0.00067	U	< 0.00067	U	0.00087	J	< 0.00018	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00019	U	< 0.00040	U	< 0.00018	U	< 0.00049	U	< 0.00049	U	0.00078	J	< 0.00013	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00036	U	< 0.00075	U	< 0.00033	U	< 0.00093	U	< 0.00093	U	< 0.00058	U	< 0.00025	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00051	U	< 0.0011	U	< 0.00047	U	< 0.0013	U	< 0.0013	U	< 0.00083	U	< 0.00036	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.00019	U	< 0.00039	U	< 0.00017	U	< 0.00048	U	< 0.00048	U	< 0.00030	U	< 0.00013	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.00021	U	< 0.00045	U	< 0.00020	U	< 0.00056	U	< 0.00055	U	< 0.00035	U	< 0.00015	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.00024	U	< 0.00050	U	< 0.00022	U	< 0.00062	U	< 0.00062	U	< 0.00039	U	< 0.00017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.00055	UJ	< 0.0012	UJ	< 0.00052	UJ	< 0.0014	UJ	< 0.0014	UJ	< 0.00090	UJ	< 0.00039	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.00026	U	< 0.00055	U	< 0.00025	U	< 0.00068	U	< 0.00068	U	0.0015	J	< 0.00019	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.00022	U	< 0.00045	U	< 0.00020	U	< 0.00056	U	< 0.00056	U	< 0.00035	U	0.00036	J
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.00042	U	< 0.00087	U	< 0.00039	U	< 0.0011	U	< 0.0011	U	< 0.00068	U	< 0.00030	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.068	UJ	< 0.14	UJ	< 0.063	UJ	< 0.17	UJ	< 0.17	UJ	< 0.11	UJ	0.172	J
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.029	U	< 0.061	U	< 0.027	U	< 0.076	U	< 0.076	U	< 0.047	U	12.8	
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.038	UJ	< 0.079	UJ	< 0.035	UJ	< 0.098	UJ	< 0.098	UJ	< 0.061	UJ	3.17	J
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.00020	U	< 0.00042	U	< 0.00019	U	< 0.00052	U	< 0.00052	U	< 0.00033	U	0.0019	
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.00057	UJ	< 0.0012	UJ	< 0.00053	UJ	< 0.0015	UJ	< 0.0015	UJ	< 0.00092	UJ	< 0.00040	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00027	U	< 0.00023	U	< 0.00011	U	< 0.00031	U	< 0.00046	U	< 0.0013	U	< 0.00017	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00029	U	< 0.00025	U	< 0.00012	U	< 0.00034	U	< 0.00051	U	< 0.0014	U	< 0.00019	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00033	U	< 0.00028	U	< 0.00014	U	< 0.00039	U	< 0.00057	U	< 0.0016	U	< 0.00021	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.00029	U	< 0.00025	U	< 0.00012	U	< 0.00034	U	< 0.00051	U	< 0.0014	U	0.00043	J
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.00032	U	< 0.00027	U	< 0.00013	U	0.00069	J	< 0.00055	U	< 0.0016	U	0.0011	

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										ISOPROPYLBENZENE 98-82-8 mg/kg		M+P-XYLENE M+P-XYLENE mg/kg 12000		M-DICHLOROBENZENE 541-73-1 mg/kg 5300		METHYL ACETATE 79-20-9 mg/kg 78000		METHYL N-BUTYL KETONE 591-78-6 mg/kg		METHYLCYCLOHEXANE 108-87-2 mg/kg		METHYL-TERT-BUTYL ETHER 1634-04-4 mg/kg 110	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	0.037	J	0.31		< 0.024	U	< 0.035	U	< 0.059	U	< 0.0086	U	< 0.02	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00027	U	< 0.00048	U	< 0.00050	U			< 0.0017	U	0.00032	J	0.0011	
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00017	U	< 0.00024	U	< 0.00015	U	< 0.0023	U	< 0.0015	U	< 0.00056	U	< 0.00029	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00024	U	< 0.00034	U	< 0.00021	U	< 0.0031	U	< 0.0022	U	< 0.00078	U	< 0.00041	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00018	U	< 0.00025	U	< 0.00016	U	< 0.0023	U	< 0.0016	U	< 0.00058	U	< 0.00030	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.00019	U	< 0.00027	U	< 0.00017	U	< 0.0025	U	< 0.0017	U	< 0.00062	U	< 0.00032	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00014	U	< 0.00020	U	< 0.00012	U	< 0.0018	U	< 0.0013	U	< 0.00046	U	< 0.00024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00026	U	< 0.00037	U	< 0.00023	U	< 0.0035	U	< 0.0024	U	< 0.00086	U	< 0.00045	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.00079	J	< 0.00053	U	< 0.00033	U	< 0.0049	U	< 0.0034	U	< 0.0012	U	< 0.00064	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.00014	U	< 0.00019	U	< 0.00012	U	< 0.0018	U	< 0.0012	U	0.00060	J	< 0.00023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.00016	U	< 0.00022	U	< 0.00014	U	< 0.0021	U	< 0.0014	U	< 0.00051	U	< 0.00027	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.00018	U	< 0.00025	U	< 0.00016	U	< 0.0023	U	< 0.0016	U	< 0.00058	U	< 0.00030	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.00040	UJ	< 0.00058	UJ	< 0.00036	UJ	< 0.0053	UJ	< 0.0037	UJ	< 0.0013	UJ	< 0.00070	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.00019	U	< 0.00027	U	< 0.00017	U	< 0.0025	U	< 0.0017	U	< 0.00063	U	< 0.00033	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.00016	U	0.00038	J	< 0.00014	U	< 0.0021	U	< 0.0014	U	< 0.00052	U	< 0.00027	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.00031	U	< 0.00044	U	< 0.00027	U	< 0.0041	U	< 0.0028	U	< 0.0010	U	< 0.00053	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.049	UJ	0.278	J	< 0.044	UJ	0.87	J	< 0.44	UJ	< 0.16	UJ	< 0.085	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	2.93		11.4		< 0.019	U	< 0.28	U	< 0.19	U	< 0.07	U	< 0.037	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	0.825	J	2.71	J	< 0.025	UJ	< 0.36	UJ	< 0.25	UJ	< 0.091	UJ	< 0.048	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	0.00069	J	0.0022		< 0.00013	U	< 0.0019	U	< 0.0013	U	< 0.00048	U	< 0.00025	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.00041	UJ	< 0.00059	UJ	< 0.00037	UJ	< 0.0054	UJ	< 0.0037	UJ	< 0.0014	UJ	< 0.00071	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00016	U	< 0.00037	U	< 0.00017	U	< 0.00098	U	< 0.0014	U	< 0.00019	U	< 0.00015	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00018	U	< 0.00040	U	< 0.00019	U	< 0.0011	U	< 0.0015	U	< 0.00021	U	< 0.00016	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00020	U	< 0.00045	U	< 0.00021	U	< 0.0012	U	< 0.0017	U	< 0.00024	U	< 0.00018	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.00018	U	< 0.00040	U	< 0.00019	U	< 0.0011	U	< 0.0015	U	< 0.00021	U	< 0.00016	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	0.00070	J	0.0011		< 0.00021	U	< 0.0012	U	< 0.0017	U	0.0041		< 0.00018	U

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte CAS RN Units MSSRS	O-XYLENE 95-47-6 mg/kg 12000		STYRENE (MONOMER) 100-42-5 mg/kg 90		TETRACHLOROETHENE 127-18-4 mg/kg 43		TOLUENE 108-88-3 mg/kg 6300		TRANS-1,2-DICHLOROETHENE 156-60-5 mg/kg 300		TRANS-1,3-DICHLOROPROPENE 10061-02-6 mg/kg 2		TRIBROMOMETHANE 75-25-2 mg/kg 81	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	0.044	J	< 0.015	U	< 0.021	U	0.2		< 0.015	U	< 0.013	U	< 0.011	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00035	U	< 0.00036	U	< 0.00034	U	< 0.00031	U	< 0.00029	U	< 0.00023	U	< 0.00072	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00022	U	< 0.00016	U	< 0.00031	U	< 0.00014	U	< 0.00018	U	< 0.00025	U	< 0.00030	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00031	U	< 0.00022	U	< 0.00044	U	< 0.00019	U	< 0.00024	U	< 0.00034	U	< 0.00041	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00023	U	< 0.00017	U	< 0.00032	U	< 0.00014	U	< 0.00018	U	< 0.00025	U	< 0.00030	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.00025	U	< 0.00018	U	< 0.00034	U	< 0.00015	U	< 0.00019	U	< 0.00027	U	< 0.00032	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00018	U	< 0.00013	U	< 0.00025	U	< 0.00011	U	< 0.00014	U	< 0.00020	U	< 0.00024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.00085	J	< 0.00025	U	< 0.00048	U	< 0.00021	U	< 0.00027	U	< 0.00038	U	< 0.00045	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0017	J	< 0.00035	U	< 0.00068	U	0.00055	J	< 0.00038	U	< 0.00053	U	< 0.00064	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.00018	U	0.00016	J	< 0.00025	U	< 0.00011	U	< 0.00014	U	< 0.00019	U	< 0.00023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.00021	U	< 0.00015	U	< 0.00029	U	< 0.00013	U	< 0.00016	U	< 0.00022	U	< 0.00027	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.00023	U	< 0.00017	U	< 0.00032	U	< 0.00014	U	< 0.00018	U	< 0.00025	U	< 0.00030	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.00053	UJ	< 0.00038	UJ	< 0.00074	UJ	< 0.00033	UJ	< 0.00042	UJ	< 0.00058	UJ	< 0.00070	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.00025	U	< 0.00018	U	< 0.00035	U	< 0.00016	U	< 0.00020	U	< 0.00028	U	< 0.00033	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	0.00023	J	< 0.00015	U	< 0.00029	U	< 0.00013	U	< 0.00016	U	< 0.00023	U	< 0.00027	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.00040	U	< 0.00029	U	< 0.00056	U	< 0.00025	U	< 0.00032	U	< 0.00044	U	< 0.00053	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	0.0764	J	< 0.046	UJ	< 0.09	UJ	0.109	J	< 0.051	UJ	< 0.071	UJ	< 0.085	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	7.4		1.8		< 0.039	U	2.67		< 0.022	U	< 0.031	U	< 0.037	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	1.75	J	0.254	J	< 0.05	UJ	0.406	J	< 0.028	UJ	< 0.04	UJ	< 0.048	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	0.0015		< 0.00014	U	< 0.00027	U	0.00033	J	< 0.00015	U	< 0.00021	U	< 0.00025	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	0.00087	J	< 0.00039	UJ	< 0.00075	UJ	< 0.00034	UJ	< 0.00042	UJ	< 0.00059	UJ	< 0.00071	UJ
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00019	U	< 0.00016	U	< 0.00016	U	< 0.00021	U	< 0.00017	U	< 0.00015	U	< 0.00016	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00021	U	< 0.00018	U	< 0.00017	U	< 0.00023	U	< 0.00018	U	< 0.00016	U	< 0.00017	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00023	U	< 0.00020	U	< 0.00019	U	< 0.00025	U	< 0.00021	U	< 0.00018	U	< 0.00019	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.00021	U	< 0.00017	U	< 0.00017	U	< 0.00023	U	< 0.00018	U	< 0.00016	U	< 0.00017	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	0.00061	J	< 0.00019	U	< 0.00019	U	< 0.00025	U	< 0.00020	U	< 0.00018	U	< 0.00019	U

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	TRICHLOROETHYLENE 79-01-6 mg/kg 3		TRICHLOROFLUORO METHANE 75-69-4 mg/kg 23000		VINYL CHLORIDE 75-01-4 mg/kg 0.7		XYLENES 1330-20-7 mg/kg 12000	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.019	U	< 0.017	U	< 0.013	U		
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00037	U	< 0.00027	U	< 0.00024	U		
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.00021	U	< 0.00070	U	< 0.00022	U	< 0.00022	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.00029	U	< 0.00098	U	< 0.00031	U	< 0.00031	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.00022	U	< 0.00072	U	< 0.00023	U	< 0.00023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.00023	U	< 0.00077	U	< 0.00025	U	< 0.00025	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.00017	U	< 0.00057	U	< 0.00018	U	< 0.00018	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00032	U	< 0.0011	U	< 0.00035	U	0.00085	J
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.00046	U	< 0.0015	U	< 0.00049	U	0.0017	J
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.00017	U	< 0.00055	U	< 0.00018	U	< 0.00018	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.00019	U	< 0.00064	U	< 0.00021	U	< 0.00021	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.00022	U	< 0.00072	U	< 0.00023	U	< 0.00023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.00050	UJ	< 0.0017	UJ	< 0.00053	UJ	< 0.00053	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.00024	U	< 0.00079	U	< 0.00025	U	< 0.00025	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.00019	U	< 0.00064	U	< 0.00021	U	0.00061	J
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.00038	U	< 0.0013	U	< 0.00040	U	< 0.00040	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.061	UJ	< 0.2	UJ	< 0.065	UJ	0.354	J
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.026	U	< 0.087	U	< 0.028	U	18.8	
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.034	UJ	< 0.11	UJ	< 0.036	UJ	4.46	J
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.00018	U	< 0.00060	U	< 0.00019	U	0.0036	
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.00051	UJ	< 0.0017	UJ	< 0.00054	UJ	0.00087	J
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.00018	U	< 0.00015	U	< 0.00033	U	< 0.00019	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.00019	U	< 0.00017	U	< 0.00036	U	< 0.00021	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.00022	U	< 0.00019	U	< 0.00041	U	< 0.00023	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.00019	U	< 0.00017	U	< 0.00036	U	< 0.00021	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.00021	U	< 0.00018	U	< 0.00039	U	0.0017	

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Table 1B
Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group
VOC - volatile organic compound

Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	1,2,4,5-TETRACHLORO BENZENE 95-94-3 mg/kg		1,4-DIOXANE 123-91-1 mg/kg		1-1'-BIPHENYL 92-52-4 mg/kg 61		2,2'-OXYBIS(1-CHLOROPROPANE) 108-60-1 mg/kg 23		2,3,4,6-TETRACHLORO PHENOL 58-90-2 mg/kg		2,4,5-TRICHLOROPHENOL 95-95-4 mg/kg 6100		2,4,6-TRICHLOROPHENOL 88-06-2 mg/kg 19	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes														
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.11	U			< 0.13	U	< 0.1	U	< 0.16	U	< 0.15	U	< 0.14	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.053	U			< 0.065	U	< 0.052	U	< 0.079	U	< 0.076	U	< 0.071	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.018	U	< 0.047	U	< 0.0098	U	< 0.026	U	< 0.047	U	< 0.054	U	< 0.043	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.01	U	< 0.026	U	< 0.0055	U	< 0.014	U	< 0.026	U	< 0.03	U	< 0.024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.0090	U	< 0.023	U	< 0.0048	U	< 0.013	U	< 0.023	U	< 0.026	U	< 0.021	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.01	U	< 0.027	U	0.107		< 0.014	U	< 0.027	U	< 0.03	U	< 0.024	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.01	U	< 0.026	U	< 0.0054	U	< 0.014	U	< 0.026	U	< 0.029	U	< 0.023	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.012	U	< 0.031	U	< 0.0064	U	< 0.017	U	< 0.031	U	< 0.035	U	< 0.028	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.014	U	< 0.038	U	< 0.0078	U	< 0.02	U	< 0.038	U	< 0.043	U	< 0.034	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.0095	U	< 0.025	U	< 0.0051	U	< 0.013	U	< 0.025	U	< 0.028	U	< 0.022	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.0094	U	< 0.024	U	< 0.0050	U	< 0.013	U	< 0.024	U	< 0.028	U	< 0.022	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.0096	U	< 0.025	U	< 0.0052	U	< 0.014	U	< 0.025	U	< 0.028	U	< 0.022	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.036	UJ	< 0.094	UJ	< 0.02	UJ	< 0.051	UJ	< 0.094	UJ	< 0.11	UJ	< 0.085	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.0092	U	< 0.024	U	0.0558	J	< 0.013	U	< 0.024	U	< 0.027	U	< 0.022	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.01	U	< 0.026	U	0.138		< 0.014	U	< 0.026	U	< 0.03	U	< 0.024	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.013	U	< 0.033	U	0.0899	J	< 0.018	U	< 0.033	U	< 0.038	U	< 0.03	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.051	UJ	< 0.13	UJ	12.1	J	< 0.073	UJ	< 0.13	UJ	< 0.15	UJ	< 0.12	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.21	U	< 0.54	U	**89.5**		< 0.29	U	< 0.54	U	< 0.61	U	< 0.48	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.05	UJ	< 0.13	UJ	3.01	J	< 0.071	UJ	< 0.13	UJ	< 0.15	UJ	< 0.12	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.0096	U	< 0.025	U	0.0231	J	< 0.014	U	< 0.025	U	< 0.028	U	< 0.023	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.018	UJ	< 0.046	UJ	0.0658	J	< 0.025	UJ	< 0.046	UJ	< 0.052	UJ	< 0.041	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.062	UJ			< 0.075	U	< 0.06	U	< 0.092	UJ	< 0.088	U	< 0.082	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.072	UJ			< 0.089	U	< 0.071	U	< 0.11	UJ	< 0.1	U	< 0.096	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.011	U	< 0.023	U	< 0.0042	U	< 0.011	U	< 0.037	U	< 0.042	U	< 0.034	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.011	U	< 0.024	U	< 0.0043	U	< 0.011	U	< 0.038	U	< 0.043	U	< 0.035	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.051	U	< 0.11	U	< 0.019	U	< 0.05	U	< 0.17	U	< 0.19	U	< 0.16	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.057	U	< 0.12	U	0.125	J	< 0.055	U	< 0.19	U	< 0.21	U	< 0.17	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.01	U	< 0.021	U	0.256		< 0.0098	U	< 0.034	U	< 0.038	U	< 0.031	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	2,4-DICHLOROPHENOL 120-83-2 mg/kg 180		2,4-DIMETHYLPHENOL 105-67-9 mg/kg 1200		2,4-DINITROPHENOL 51-28-5 mg/kg 120		2,4-DINITROTOLUENE 121-14-2 mg/kg 0.7		2,4-DINITROTOLUENE 25321-14-6 mg/kg 0.7		2,6-DINITROTOLUENE 606-20-2 mg/kg 0.7		2-CHLORO NAPHTHALENE 91-58-7 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes														
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.13	U	< 0.13	U	< 0.17	U			< 0.023	U	< 0.02	U	< 0.11	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.063	U	< 0.063	U	< 0.084	U			< 0.012	U	< 0.01	U	< 0.056	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.061	U	< 0.13	U	< 0.27	U	< 0.022	U			< 0.036	U	< 0.017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.034	U	< 0.071	U	< 0.15	U	< 0.012	U			< 0.02	U	< 0.0095	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.03	U	< 0.063	U	< 0.13	U	< 0.011	U			< 0.018	U	< 0.0084	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.034	U	< 0.072	U	< 0.15	U	< 0.013	U			< 0.02	U	< 0.0096	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.034	U	< 0.07	U	< 0.15	U	< 0.012	U			< 0.02	U	< 0.0094	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.04	U	< 0.083	U	< 0.18	U	< 0.014	U			< 0.023	U	< 0.011	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.049	U	< 0.1	U	< 0.21	U	< 0.018	U			< 0.029	U	< 0.014	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.032	U	< 0.067	U	< 0.14	U	< 0.012	U			< 0.019	U	< 0.0089	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.031	U	< 0.066	U	< 0.14	U	< 0.011	U			< 0.018	U	< 0.0088	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.032	U	< 0.067	U	< 0.14	U	< 0.012	U			< 0.019	U	< 0.0090	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.12	UJ	< 0.25	UJ	< 0.54	UJ	< 0.044	UJ			< 0.072	UJ	< 0.034	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.031	U	< 0.065	U	< 0.14	U	< 0.011	U			< 0.018	U	< 0.0087	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.034	U	< 0.071	U	< 0.15	U	< 0.012	U			< 0.02	U	< 0.0095	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.043	U	< 0.089	U	< 0.19	U	< 0.016	U			< 0.025	U	< 0.012	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.17	UJ	< 0.36	UJ	< 0.76	UJ	< 0.063	UJ			< 0.1	UJ	< 0.048	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.69	U	< 1.4	U	< 3.1	U	< 0.25	U			< 0.41	U	< 0.19	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.17	UJ	< 0.35	UJ	< 0.74	UJ	< 0.061	UJ			< 0.099	UJ	< 0.047	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.032	U	< 0.067	U	< 0.14	U	< 0.012	U			< 0.019	U	< 0.0090	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.059	UJ	< 0.12	UJ	< 0.26	UJ	< 0.021	UJ			< 0.035	UJ	< 0.016	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.073	U	< 0.073	U	< 0.097	U			< 0.013	U	< 0.012	U	< 0.065	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.086	U	< 0.086	U	< 0.11	U			< 0.016	U	< 0.014	U	< 0.076	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.058	U	< 0.061	U	< 0.044	U	< 0.016	U			< 0.014	U	< 0.011	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.059	U	< 0.062	U	< 0.045	U	< 0.016	U			< 0.014	U	< 0.011	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.27	U	< 0.28	U	< 0.2	U	< 0.073	U			< 0.064	U	< 0.052	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.3	U	< 0.31	U	< 0.22	U	< 0.081	U			< 0.07	U	< 0.057	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.053	U	< 0.055	U	< 0.04	U	< 0.014	U			< 0.013	U	< 0.01	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	2-CHLOROPHENOL 95-57-8 mg/kg 310		2-METHYL NAPHTHALENE 91-57-6 mg/kg 230		2-METHYLPHENOL 95-48-7 mg/kg 310		2-NITROANILINE 88-74-4 mg/kg 39		2-NITROPHENOL 88-75-5 mg/kg		3,3'-DICHLORO BENZIDINE 91-94-1 mg/kg 1		3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE 78-59-1 mg/kg 510	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes														
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.1	U	0.28	J	< 0.11	U	< 0.21	U	< 0.13	U	< 0.17	U	0.23	J
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.053	U	0.064	J	< 0.057	U	< 0.11	U	< 0.065	U	< 0.087	U	< 0.045	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.035	U	0.0335	J	< 0.046	U	< 0.017	U	< 0.047	U	< 0.06	U	< 0.015	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.02	U	0.0179	J	< 0.026	U	< 0.0094	U	< 0.026	U	< 0.033	U	< 0.0085	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.017	U	< 0.0080	U	< 0.023	U	< 0.0083	U	< 0.023	U	< 0.029	U	< 0.0075	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.02	U	0.305		< 0.026	U	< 0.0095	U	< 0.027	U	< 0.034	U	< 0.0086	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.019	U	< 0.0089	U	< 0.025	U	< 0.0093	U	< 0.026	U	< 0.033	U	< 0.0084	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.023	U	0.0512	J	< 0.03	U	< 0.011	U	< 0.031	U	< 0.039	U	< 0.01	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.028	U	0.0508	J	< 0.036	U	< 0.013	U	< 0.038	U	< 0.047	U	< 0.012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.019	U	< 0.0085	U	< 0.024	U	< 0.0088	U	< 0.025	U	< 0.031	U	< 0.0080	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.018	U	< 0.0083	U	< 0.024	U	< 0.0087	U	< 0.024	U	< 0.031	U	< 0.0079	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.019	U	< 0.0085	U	< 0.024	U	< 0.0089	U	< 0.025	U	< 0.031	U	< 0.0081	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.071	UJ	< 0.032	UJ	< 0.091	UJ	< 0.034	UJ	< 0.094	UJ	< 0.12	UJ	< 0.031	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.018	U	0.153		< 0.023	U	< 0.0086	U	< 0.024	U	< 0.03	U	< 0.0078	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.02	U	0.379		< 0.025	U	< 0.0094	U	< 0.026	U	< 0.033	U	< 0.0085	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.025	U	0.28		< 0.032	U	< 0.012	U	< 0.033	U	< 0.042	U	< 0.011	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.1	UJ	112	J	< 0.13	UJ	< 0.048	UJ	< 0.13	UJ	< 0.17	UJ	< 0.043	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.4	U	**1080**		< 0.52	U	< 0.19	U	< 0.54	U	< 0.68	U	< 0.17	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.098	UJ	8.43	J	< 0.13	UJ	< 0.047	UJ	< 0.13	UJ	< 0.16	UJ	< 0.042	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.019	U	0.137		< 0.024	U	< 0.0089	U	< 0.025	U	< 0.031	U	< 0.0081	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.034	UJ	0.312	J	< 0.044	UJ	< 0.016	UJ	< 0.046	UJ	< 0.058	UJ	< 0.015	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.061	U	< 0.067	U	< 0.066	U	< 0.13	U	< 0.075	U	< 0.1	U	< 0.053	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.072	U	< 0.078	U	< 0.077	U	< 0.15	U	< 0.088	U	< 0.12	U	< 0.062	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.036	U	< 0.02	U	< 0.041	U	< 0.016	U	< 0.038	U	< 0.0091	U	< 0.0097	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.037	U	< 0.021	U	< 0.042	U	< 0.016	U	< 0.039	U	< 0.0094	U	< 0.0099	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.17	U	0.141	J	< 0.19	U	< 0.074	U	< 0.18	U	< 0.042	U	< 0.045	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.18	U	0.404		< 0.21	U	< 0.081	U	< 0.2	U	< 0.047	U	< 0.05	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.033	U	0.994		< 0.037	U	< 0.014	U	< 0.035	U	< 0.0083	U	< 0.0088	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	3+4-METHYLPHENOL 106-44-5 mg/kg 31		3-NITROANILINE 99-09-2 mg/kg		4,6-DINITRO-2-METHYLPHENOL 534-52-1 mg/kg 6		4-BROMOPHENYL PHENYL ETHER 101-55-3 mg/kg		4-CHLORO-3-METHYLPHENOL 59-50-7 mg/kg		4-CHLOROPHENYL PHENYL ETHER 7005-72-3 mg/kg		4-NITROPHENOL 100-02-7 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes														
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes														
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.13	U	< 0.18	U	< 0.37	U	< 0.14	U	< 0.13	U	< 0.13	U	< 0.2	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.065	U	< 0.089	U	< 0.19	U	< 0.07	U	< 0.066	U	< 0.068	U	< 0.1	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.059	U	< 0.018	U	< 0.077	U	< 0.028	U	< 0.044	U	< 0.023	U	< 0.19	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.033	U	< 0.01	U	< 0.043	U	< 0.015	U	< 0.024	U	< 0.013	U	< 0.11	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.029	U	< 0.0088	U	< 0.038	U	< 0.014	U	< 0.022	U	< 0.011	U	< 0.094	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	1.63		< 0.01	U	< 0.043	U	< 0.016	U	< 0.025	U	< 0.013	U	< 0.11	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.032	U	< 0.0098	U	< 0.042	U	< 0.015	U	< 0.024	U	< 0.013	U	< 0.11	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0966	J	< 0.012	U	< 0.05	U	< 0.018	U	< 0.029	U	< 0.015	U	< 0.12	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.181	J	< 0.014	U	< 0.061	U	< 0.022	U	< 0.035	U	< 0.018	U	< 0.15	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.031	U	< 0.0094	U	< 0.04	U	< 0.014	U	< 0.023	U	< 0.012	U	< 0.1	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.03	U	< 0.0092	U	< 0.039	U	< 0.014	U	< 0.023	U	< 0.012	U	< 0.098	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.031	U	< 0.0094	U	< 0.04	U	< 0.015	U	< 0.023	U	< 0.012	U	< 0.1	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.12	UJ	< 0.036	UJ	< 0.15	UJ	< 0.055	UJ	< 0.087	UJ	< 0.046	UJ	< 0.38	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.03	U	< 0.0091	U	< 0.039	U	< 0.014	U	< 0.022	U	< 0.012	U	< 0.097	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.033	U	< 0.0099	U	< 0.043	U	< 0.015	U	< 0.024	U	< 0.013	U	< 0.11	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.041	U	< 0.013	U	< 0.054	U	< 0.019	U	< 0.031	U	< 0.016	U	< 0.13	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	1.62	J	< 0.051	UJ	< 0.22	UJ	< 0.078	UJ	< 0.12	UJ	< 0.066	UJ	< 0.54	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	1.39	J	< 0.2	U	< 0.87	U	< 0.31	U	< 0.5	U	< 0.26	U	< 2.2	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.16	UJ	< 0.049	UJ	< 0.21	UJ	< 0.076	UJ	< 0.12	UJ	< 0.064	UJ	< 0.53	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.031	U	< 0.0094	U	< 0.04	U	< 0.015	U	< 0.023	U	< 0.012	U	< 0.1	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	0.327	J	< 0.017	UJ	< 0.074	UJ	< 0.027	UJ	< 0.042	UJ	< 0.022	UJ	< 0.18	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.075	U	< 0.1	U	< 0.22	U	< 0.081	U	< 0.077	U	< 0.079	U	< 0.12	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.088	U	< 0.12	U	< 0.26	U	< 0.096	U	< 0.09	U	< 0.092	U	< 0.14	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.046	U	< 0.014	U	< 0.044	U	< 0.013	U	< 0.036	U	< 0.011	U	< 0.061	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.047	U	< 0.015	U	< 0.045	U	< 0.013	U	< 0.037	U	< 0.011	U	< 0.062	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.21	U	< 0.067	U	< 0.2	U	< 0.061	U	< 0.17	U	< 0.05	U	< 0.28	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.23	U	< 0.074	U	< 0.22	U	< 0.067	U	< 0.18	U	< 0.055	U	< 0.31	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.042	U	< 0.013	U	< 0.04	U	< 0.012	U	< 0.033	U	< 0.0099	U	< 0.056	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	ACENAPHTHENE 83-32-9 mg/kg 3400		ACENAPHTHYLENE 208-96-8 mg/kg 300000		ACETOPHENONE 98-86-2 mg/kg 2		ANTHRACENE 120-12-7 mg/kg 17000		ATRAZINE 1912-24-9 mg/kg 210		BENZALDEHYDE 100-52-7 mg/kg 6100		BENZO(A) ANTHRACENE 56-55-3 mg/kg 5	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes	< 0.02	U	< 0.016	U			0.0155	J					0.0528	J
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes	< 0.022	U	< 0.018	U			< 0.017	U					< 0.021	U
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 0.022	U	< 0.017	U			< 0.017	U					< 0.021	U
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 0.021	U	< 0.017	U			< 0.016	U					< 0.02	U
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes	< 0.02	U	< 0.016	U			< 0.015	U					< 0.019	U
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes	< 0.02	U	< 0.016	U			< 0.015	U					< 0.019	U
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.11	U	< 0.11	U	< 0.12	U	0.3	J	< 0.15	U	< 0.049	U	1.8	
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.056	U	< 0.056	U	< 0.059	U	0.15	J	< 0.074	U	< 0.025	U	1.4	
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	0.0306	J	0.0917		< 0.015	U	0.135		< 0.031	U	< 0.018	U	0.601	
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	0.0366	J	0.0296	J	< 0.0086	U	0.107		< 0.017	U	< 0.0099	U	0.269	
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.012	U	< 0.018	U	< 0.0076	U	< 0.022	U	< 0.015	U	< 0.0087	U	< 0.01	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	0.984		0.0594		< 0.0087	U	3.73		< 0.017	U	0.235		4.79	
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.014	U	< 0.02	U	< 0.0085	U	< 0.024	U	< 0.017	U	< 0.0098	U	< 0.011	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0819		< 0.024	U	< 0.01	U	0.0391	J	< 0.02	U	< 0.012	U	0.0563	
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0509	J	< 0.029	U	< 0.012	U	0.0450	J	< 0.024	U	< 0.014	U	0.0451	J
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.013	U	< 0.019	U	< 0.0081	U	< 0.023	U	< 0.016	U	< 0.0093	U	0.0161	J
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.013	U	< 0.019	U	< 0.0079	U	< 0.023	U	< 0.016	U	< 0.0091	U	< 0.01	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.013	U	< 0.019	U	< 0.0081	U	< 0.023	U	< 0.016	U	< 0.0093	U	< 0.011	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.049	UJ	< 0.073	UJ	< 0.031	UJ	< 0.087	UJ	< 0.061	UJ	0.148	J	< 0.04	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	0.108		0.157		< 0.0078	U	0.563		< 0.016	U	< 0.0090	U	3.01	
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	0.493	J	0.183		< 0.0085	U	1.6	J	< 0.017	U	< 0.0099	U	3.91	J
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	0.494		0.129		< 0.011	U	1.18		< 0.021	U	< 0.012	U	2.32	
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	88.6	J	19.8	J	< 0.044	UJ	78.2	J	< 0.087	UJ	< 0.05	UJ	**48.9**	**J**
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	425		231		< 0.17	U	317		< 0.35	U	< 0.2	U	**147**	
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	18.7	J	2.72	J	< 0.042	UJ	13	J	< 0.085	UJ	< 0.049	UJ	**6.4**	**J**
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	0.179		0.0499		< 0.0081	U	0.184		< 0.016	U	< 0.0094	U	0.105	
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	0.275	J	< 0.035	UJ	< 0.015	UJ	0.0580	J	< 0.03	UJ	< 0.017	UJ	0.0332	J
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	0.13	J	< 0.065	U	< 0.068	U	0.41	J	< 0.085	U	< 0.029	U	0.99	
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.077	U	< 0.077	U	< 0.08	U	< 0.095	U	< 0.1	U	< 0.034	U	0.035	J
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.01	U	< 0.012	U	< 0.0063	U	0.0496		< 0.0071	U	< 0.0083	U	0.205	
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.011	U	0.0243	J	< 0.0065	U	0.0453		< 0.0073	U	< 0.0085	U	0.188	
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	0.66		1.1		< 0.029	U	3.32		< 0.033	U	< 0.038	U	**10.7**	
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	3.41		1.57		< 0.032	U	7.63		< 0.036	U	< 0.042	U	**17.7**	
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	4.37		1.22		< 0.0058	U	10.6		< 0.0065	U	< 0.0076	U	**15.8**	

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	BENZO(A)PYRENE 50-32-8 mg/kg 0.5		BENZO(B) FLUORANTHENE 205-99-2 mg/kg 5		BENZO(G,H,I) PERYLENE 191-24-2 mg/kg 30000		BENZO(K) FLUORANTHENE 207-08-9 mg/kg 45		BENZYL BUTYL PHTHALATE 85-68-7 mg/kg 1200		BIS(2-CHLOROETHOXY) METHANE 111-91-1 mg/kg		BIS(2-CHLOROETHYL) ETHER 111-44-4 mg/kg 0.4	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes	0.0421	J	0.0404	J	0.0242	J	< 0.029	U						
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes	< 0.015	U	< 0.02	U	< 0.024	U	< 0.033	U						
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 0.015	U	< 0.02	U	< 0.024	U	< 0.032	U						
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes	< 0.014	U	< 0.019	U	< 0.023	U	< 0.031	U						
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes	< 0.014	U	< 0.018	U	< 0.021	U	< 0.029	U						
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes	< 0.013	U	< 0.018	U	< 0.021	U	< 0.029	U						
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	**2.3**		3		3.8		1.1		< 0.091	U	< 0.11	U	< 0.016	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	**1.9**		3.1		2.9		1.2		< 0.046	U	< 0.056	U	< 0.0082	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	**0.666**		0.888		0.353		0.359		< 0.017	U	< 0.015	U	< 0.031	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	0.229		0.234		0.152		0.0940		< 0.0097	U	< 0.0085	U	< 0.017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.016	U	< 0.016	U	< 0.018	U	< 0.016	U	< 0.0086	U	< 0.0075	U	< 0.015	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	**4.11**		3.97		1.95		1.42		< 0.0098	U	< 0.0086	U	< 0.017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.018	U	< 0.017	U	< 0.02	U	< 0.018	U	< 0.0096	U	< 0.0084	U	< 0.017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0372	J	0.0467	J	0.0302	J	< 0.022	U	< 0.011	U	< 0.01	U	< 0.02	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	0.0340	J	0.0369	J	< 0.028	U	< 0.027	U	< 0.014	U	< 0.012	U	< 0.025	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.017	U	0.0185	J	< 0.019	U	< 0.018	U	< 0.0091	U	< 0.0080	U	< 0.016	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.017	U	< 0.016	U	< 0.018	U	< 0.017	U	< 0.0090	U	< 0.0079	U	< 0.016	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.017	U	< 0.017	U	< 0.019	U	< 0.018	U	< 0.0092	U	< 0.0081	U	< 0.016	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.065	UJ	< 0.063	UJ	< 0.071	UJ	< 0.067	UJ	< 0.035	UJ	< 0.031	UJ	< 0.062	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	**3.1**		4.38		2.13		1.65		< 0.0089	U	< 0.0078	U	< 0.016	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	**3.75**	**J**	3.63	J	2.07	J	1.43		< 0.0097	U	< 0.0085	U	< 0.017	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	**1.95**		2.17		0.91		0.841		< 0.012	U	< 0.011	U	< 0.022	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	**28**	**J**	**22.5**	**J**	10.2	J	8.71	J	< 0.049	UJ	< 0.043	UJ	< 0.087	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	**92.4**		**69.5**		33.4		25.5		< 0.2	U	< 0.17	U	< 0.35	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	**2.42**	**J**	1.87	J	0.755	J	0.472	J	< 0.048	UJ	< 0.042	UJ	< 0.085	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	0.0600		0.0391		0.0237	J	0.0242	J	< 0.0092	U	< 0.0081	U	< 0.016	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.032	UJ	< 0.031	UJ	< 0.035	UJ	< 0.032	UJ	< 0.017	UJ	< 0.015	UJ	< 0.03	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	**1.1**		1.3		0.87		0.58		< 0.053	U	< 0.065	U	< 0.0095	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.0066	U	0.035	J	< 0.057	U	< 0.0075	U	< 0.063	U	< 0.077	U	< 0.011	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	0.198		0.16		0.112		0.152		< 0.021	U	< 0.015	U	< 0.011	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	0.218		0.177		0.139		0.139		< 0.021	U	< 0.015	U	< 0.011	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	**12.7**		**10.1**		7.96		7.02		< 0.097	U	< 0.068	U	< 0.05	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	**18.1**		**13.1**		11.3		10.9		< 0.11	U	< 0.074	U	< 0.055	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	**14.1**		**12**		7.88		8.42		< 0.019	U	< 0.013	U	< 0.0099	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	BIS(2-ETHYLHEXYL) PHTHALATE 117-81-7 mg/kg 35		CAPROLACTAM 105-60-2 mg/kg 31000		CARBAZOLE 86-74-8 mg/kg 24		CHRYSENE 218-01-9 mg/kg 450		DIBENZO(A,H) ANTHRACENE 53-70-3 mg/kg 0.5		DIBENZOFURAN 132-64-9 mg/kg		DIETHYL PHTHALATE 84-66-2 mg/kg 49000	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes							0.0471	J	< 0.02	U				
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes							< 0.016	U	< 0.023	U				
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes							< 0.016	U	< 0.023	U				
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes							< 0.015	U	< 0.022	U				
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes							< 0.014	U	< 0.02	U				
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes							< 0.014	U	< 0.02	U				
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	1.4		< 0.11	U	< 0.12	U	2.2		**0.9**		< 0.12	U	< 0.11	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.052	U	< 0.054	U	0.098	J	2.1		**0.73**		< 0.059	U	< 0.053	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.017	U	< 0.028	U	0.0467	J	0.691		0.0987		< 0.029	U	< 0.015	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.0093	U	< 0.016	U	0.0198	J	0.284		0.0511		0.0241	J	< 0.0085	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.0082	U	< 0.014	U	< 0.0051	U	< 0.011	U	< 0.016	U	< 0.014	U	< 0.0075	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.0094	U	< 0.016	U	0.407		4.65		**0.522**		0.597		< 0.0086	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.0092	U	< 0.016	U	< 0.0057	U	< 0.012	U	< 0.017	U	< 0.016	U	< 0.0084	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.011	U	< 0.018	U	< 0.0068	U	0.0402	J	< 0.021	U	0.0314	J	< 0.0099	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.013	U	< 0.022	U	< 0.0083	U	0.0429	J	< 0.025	U	0.0311	J	< 0.012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.0088	U	< 0.015	U	< 0.0054	U	< 0.012	U	< 0.017	U	< 0.015	U	< 0.0080	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.0086	U	< 0.015	U	< 0.0053	U	< 0.012	U	< 0.016	U	< 0.015	U	< 0.0078	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.0088	U	< 0.015	U	< 0.0055	U	< 0.012	U	< 0.017	U	< 0.015	U	< 0.0080	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.033	UJ	< 0.056	UJ	< 0.021	UJ	< 0.045	UJ	< 0.063	UJ	< 0.058	UJ	< 0.03	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.0085	U	< 0.014	U	0.101		3.39		**0.729**		0.135		< 0.0078	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.0093	U	< 0.016	U	0.332	J	3.58	J	**0.755**	**J**	0.922	J	< 0.0085	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.012	U	< 0.02	U	0.359		2.39		0.331		0.459		< 0.011	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.047	UJ	< 0.08	UJ	< 0.029	UJ	52.1	J	**3.86**	**J**	9.25	J	< 0.043	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.19	U	< 0.32	U	< 0.12	U	165		**12**	**J**	61.3		< 0.17	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.046	UJ	< 0.078	UJ	1.68	J	6.22	J	0.267	J	< 0.08	UJ	< 0.042	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.0088	U	< 0.015	U	< 0.0055	U	0.106		< 0.017	U	< 0.015	U	< 0.0080	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.016	UJ	< 0.027	UJ	0.0480	J	0.0408	J	< 0.031	UJ	0.0621	J	< 0.015	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.061	U	< 0.063	U	0.2	J	1.2		0.17		0.098	J	< 0.061	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.071	U	< 0.074	U	< 0.085	U	< 0.078	U	< 0.0065	U	< 0.081	U	< 0.072	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.032	U	< 0.011	U	< 0.017	U	0.187		0.0244	J	< 0.011	U	< 0.012	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.033	U	< 0.012	U	< 0.017	U	0.171		0.0295	J	< 0.011	U	< 0.013	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.15	U	< 0.053	U	0.441		9.51		**1.59**		0.26	J	< 0.057	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.16	U	< 0.058	U	1.14		16		**3.73**		0.935		< 0.063	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.029	U	< 0.01	U	1.57		13.5		**1.91**		2.45		< 0.011	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	DIMETHYL PHTHALATE 131-11-3 mg/kg		DI-N-BUTYLPHTHALATE 84-74-2 mg/kg 6100		DI-N-OCTYL PHTHALATE 117-84-0 mg/kg 2400		FLUORANTHENE 206-44-0 mg/kg 2300		FLUORENE 86-73-7 mg/kg 2300		HEXACHLORO-1,3-BUTADIENE 87-68-3 mg/kg 6		HEXACHLORO BENZENE 118-74-1 mg/kg 0.3	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes							0.0925	J	< 0.015	U				
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes							< 0.015	U	< 0.017	U				
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes							< 0.015	U	< 0.017	U				
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes							< 0.015	U	< 0.017	U				
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes							< 0.014	U	< 0.016	U				
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes							< 0.014	U	< 0.015	U				
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.11	U	< 0.12	U	< 0.093	U	2.2		< 0.13	U	< 0.032	U	< 0.011	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.053	U	< 0.06	U	< 0.047	U	1.8		< 0.067	U	< 0.016	U	< 0.0055	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.013	U	< 0.012	U	< 0.018	U	1.02		< 0.033	U	< 0.029	U	< 0.018	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.0071	U	< 0.0065	U	< 0.0099	U	0.39		0.0393	J	< 0.016	U	< 0.01	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.0063	U	< 0.0057	U	< 0.0088	U	< 0.016	U	< 0.016	U	< 0.014	U	< 0.0089	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.0072	U	< 0.0066	U	< 0.01	U	11		1.35		< 0.016	U	< 0.01	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.0070	U	< 0.0064	U	< 0.0098	U	< 0.018	U	< 0.018	U	< 0.016	U	< 0.01	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.0083	U	< 0.0076	U	< 0.012	U	0.0950		0.0689		< 0.019	U	< 0.012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.01	U	< 0.0093	U	< 0.014	U	0.0756		0.0663		< 0.023	U	< 0.014	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.0067	U	< 0.0061	U	< 0.0093	U	< 0.017	U	< 0.017	U	< 0.015	U	< 0.0095	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.0066	U	< 0.0060	U	< 0.0092	U	< 0.016	U	< 0.017	U	< 0.015	U	< 0.0093	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.0067	U	< 0.0061	U	< 0.0094	U	< 0.017	U	< 0.017	U	< 0.015	U	< 0.0095	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.025	UJ	< 0.023	UJ	< 0.036	UJ	< 0.064	UJ	< 0.066	UJ	< 0.057	UJ	< 0.036	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.0065	U	< 0.0059	U	< 0.0091	U	4.01		0.118		< 0.015	U	< 0.0092	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.0071	U	< 0.0065	U	< 0.0099	U	7.19	J	0.996	J	< 0.016	U	< 0.01	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.0089	U	< 0.0082	U	< 0.012	U	5.74		0.609		< 0.02	U	< 0.013	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.036	UJ	< 0.033	UJ	< 0.05	UJ	88.5	J	84.1	J	< 0.081	UJ	< 0.051	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.14	U	< 0.13	U	< 0.2	U	258		470		< 0.33	U	< 0.21	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.035	UJ	< 0.032	UJ	< 0.049	UJ	10.4	J	17	J	< 0.079	UJ	< 0.05	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.0067	U	< 0.0062	U	< 0.0094	U	0.191		0.203		< 0.015	U	< 0.0096	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.012	UJ	< 0.011	UJ	< 0.017	UJ	0.0736	J	0.159	J	< 0.028	UJ	< 0.018	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.062	U	< 0.07	U	< 0.054	U	2.7		0.13	J	< 0.019	U	< 0.0063	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.073	U	< 0.082	U	< 0.064	U	< 0.089	U	< 0.091	U	< 0.022	U	< 0.0075	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.013	U	< 0.0080	U	< 0.018	U	0.391		< 0.012	U	< 0.01	U	< 0.012	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.013	U	< 0.0082	U	< 0.018	U	0.29		< 0.012	U	< 0.01	U	< 0.012	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.059	U	< 0.037	U	< 0.081	U	20.5		1.03		< 0.046	U	< 0.054	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.065	U	< 0.041	U	< 0.09	U	37.7		2.69		< 0.051	U	< 0.06	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.012	U	< 0.0073	U	< 0.016	U	40.5		5.28		< 0.0091	U	< 0.011	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	HEXACHLOROCYCLO PENTADIENE 77-47-4 mg/kg 45		HEXACHLORO ETHANE 67-72-1 mg/kg 12		INDENO(1,2,3-CD) PYRENE 193-39-5 mg/kg 5		NAPHTHALENE 91-20-3 mg/kg 6		NITROBENZENE 98-95-3 mg/kg 5		N-NITROSO-DI-N-PROPYLAMINE 621-64-7 mg/kg 0.2		N-NITROSO DIPHENYLAMINE 86-30-6 mg/kg 99	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes					< 0.024	U	< 0.022	U						
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes					< 0.028	U	< 0.025	U						
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes					< 0.027	U	< 0.024	U						
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes					< 0.026	U	< 0.023	U						
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes					< 0.025	U	< 0.022	U						
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes					< 0.024	U	< 0.022	U						
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.23	U	< 0.013	U	3.7		0.24	J	< 0.018	U	< 0.01	U	< 0.13	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.12	U	< 0.0067	U	2.9		0.074	J	< 0.0088	U	< 0.0052	U	< 0.064	U
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.028	U	< 0.035	U	0.372		0.0357	J	< 0.028	U	< 0.021	U	< 0.026	U
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.016	U	< 0.02	U	0.114		0.0263	J	< 0.015	U	< 0.012	U	< 0.015	U
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.014	U	< 0.017	U	< 0.017	U	< 0.0099	U	< 0.014	U	< 0.01	U	< 0.013	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.016	U	< 0.02	U	1.7		0.475		< 0.016	U	< 0.012	U	< 0.015	U
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.016	U	< 0.019	U	< 0.018	U	< 0.011	U	< 0.015	U	< 0.011	U	< 0.014	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.019	U	< 0.023	U	0.0240	J	0.163		< 0.018	U	< 0.013	U	< 0.017	U
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.023	U	< 0.028	U	< 0.027	U	0.155		< 0.022	U	< 0.016	U	< 0.021	U
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.015	U	< 0.019	U	< 0.018	U	< 0.011	U	< 0.014	U	< 0.011	U	< 0.014	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.015	U	< 0.018	U	< 0.017	U	< 0.01	U	< 0.014	U	< 0.011	U	< 0.013	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.015	U	< 0.019	U	< 0.018	U	< 0.011	U	< 0.015	U	< 0.011	U	< 0.014	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.057	UJ	< 0.071	UJ	< 0.067	UJ	< 0.04	UJ	< 0.055	UJ	< 0.041	UJ	< 0.052	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.014	U	< 0.018	U	2.04		0.484		< 0.014	U	< 0.011	U	< 0.013	U
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.016	U	< 0.02	U	1.94	J	0.791		< 0.015	U	< 0.011	U	< 0.015	U
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.02	U	< 0.025	U	0.919		0.409		< 0.019	U	< 0.014	U	< 0.018	U
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.081	UJ	< 0.1	UJ	**8.99**	**J**	**41.2**	**J**	< 0.078	UJ	< 0.059	UJ	< 0.074	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.32	U	< 0.4	U	**32.2**		**551**		< 0.31	U	**< 0.24**	**U**	< 0.3	U
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.079	UJ	< 0.098	UJ	0.664	J	5.76	J	< 0.076	UJ	< 0.057	UJ	< 0.072	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.015	U	< 0.019	U	0.0196	J	0.0309	J	< 0.015	U	< 0.011	U	< 0.014	U
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.028	UJ	< 0.034	UJ	< 0.032	UJ	0.561	J	< 0.027	UJ	< 0.02	UJ	< 0.025	UJ
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.13	U	< 0.0077	U	0.83		< 0.067	U	< 0.01	U	< 0.0060	U	< 0.075	U
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.16	U	< 0.0091	U	< 0.0086	U	< 0.079	U	< 0.012	U	< 0.0071	U	< 0.088	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.037	U	< 0.01	U	0.107		< 0.0098	U	< 0.01	U	< 0.0088	U	< 0.021	U
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.038	U	< 0.01	U	0.139		< 0.01	U	< 0.011	U	< 0.0090	U	< 0.022	U
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.17	U	< 0.046	U	**8.13**		0.135	J	< 0.048	U	< 0.041	U	< 0.1	U
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.19	U	< 0.051	U	**11.5**		0.5		< 0.053	U	< 0.045	U	< 0.11	U
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.034	U	< 0.0091	U	**7.73**		0.806		< 0.0095	U	< 0.0080	U	< 0.02	U

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	P-CHLOROANILINE 106-47-8 mg/kg		PENTACHLORO PHENOL 87-86-5 mg/kg 0.9		PHENANTHRENE 85-01-8 mg/kg 300000		PHENOL 108-95-2 mg/kg 18000		P-NITROANILINE 100-01-6 mg/kg		PYRENE 129-00-0 mg/kg 1700	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
114-MW22B	PPG-114-MW22BA(5.0-5.5)J46994-1	J46994	J46994-1	5.0 - 5.5	12.6	7.6	7.1	11/20/2006	Yes					0.0619	J					0.0873	J
114-MW22B	PPG-114-MW22BB(9.5-10.0)J46994-2	J46994	J46994-2	9.5 - 10.0	12.6	3.1	2.6	11/20/2006	Yes					< 0.019	U					< 0.015	U
114-MW22B	PPG-114-MW22BC(13.0-14.0)J46994-3	J46994	J46994-3	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes					< 0.019	U					< 0.015	U
114-MW22B	PPG-114-MW22BCD(13.0-14.0)J46994-4	J46994	J46994-4	13.0 - 14.0	12.6	-0.4	-1.4	11/20/2006	Yes					< 0.018	U					< 0.014	U
114-MW22B	PPG-114-MW22BD(17.5-18.0)J46994-5	J46994	J46994-5	17.5 - 18.0	12.6	-4.9	-5.4	11/20/2006	Yes					< 0.017	U					< 0.013	U
114-MW22B	PPG-114-MW22BE(22.5-23.0)J46994-6	J46994	J46994-6	22.5 - 23.0	12.6	-9.9	-10.4	11/20/2006	Yes					< 0.017	U					< 0.013	U
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.098	U	< 0.38	U	1.5		< 0.096	U	< 0.16	U	1.8	
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.05	U	< 0.19	U	0.89		0.05	J	< 0.082	U	1.6	
CAR-PDI-AA19A	CAR-PDI-AA19A-0.5-1.0	JC22070A	JC22070-2A	0.5 - 1.0	10.9	10.4	9.9	06/13/2016	Yes	< 0.026	U	< 0.067	U	0.436		< 0.037	U	< 0.019	U	1.07	
CAR-PDI-AA19A	CAR-PDI-AA19A-2.0-2.5	JC22070A	JC22070-9A	2.0 - 2.5	10.9	8.9	8.4	06/13/2016	Yes	< 0.014	U	< 0.037	U	0.561		< 0.021	U	< 0.01	U	0.661	
CAR-PDI-AA19A	CAR-PDI-AA19A-4.0-4.5	JC22070A	JC22070-10A	4.0 - 4.5	10.9	6.9	6.4	06/13/2016	Yes	< 0.013	U	< 0.033	U	< 0.012	U	< 0.018	U	< 0.0091	U	< 0.011	U
CAR-PDI-AA19A	CAR-PDI-AA19A-6.0-6.5	JC22070A	JC22070-11A	6.0 - 6.5	10.9	4.9	4.4	06/13/2016	Yes	< 0.015	U	< 0.038	U	13.9		0.112		< 0.01	U	13.3	
CAR-PDI-AA19A	CAR-PDI-AA19A-8.0-8.5	JC22070A	JC22070-12A	8.0 - 8.5	10.9	2.9	2.4	06/13/2016	Yes	< 0.014	U	< 0.037	U	0.0276	J	< 0.021	U	< 0.01	U	0.0211	J
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5	JC22070A	JC22070-3A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.017	U	< 0.044	U	0.181		< 0.024	U	< 0.012	U	0.101	
CAR-PDI-AA19A	CAR-PDI-AA19A-10.0-10.5X	JC22070A	JC22070-4A	10.0 - 10.5	10.9	0.9	0.4	06/13/2016	Yes	< 0.02	U	< 0.053	U	0.183		< 0.03	U	< 0.015	U	0.0799	
CAR-PDI-AA19A	CAR-PDI-AA19A-12.0-12.5	JC22070A	JC22070-5A	12.0 - 12.5	10.9	-1.1	-1.6	06/13/2016	Yes	< 0.013	U	< 0.035	U	< 0.013	U	< 0.02	U	< 0.0097	U	< 0.012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.0-14.5	JC22070A	JC22070-6A	14.0 - 14.5	10.9	-3.1	-3.6	06/13/2016	Yes	< 0.013	U	< 0.035	U	< 0.012	U	< 0.019	U	< 0.0095	U	< 0.012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-14.7-15.2	JC22070A	JC22070-7A	14.7 - 15.2	10.9	-3.8	-4.3	06/13/2016	Yes	< 0.014	U	< 0.035	U	< 0.013	U	< 0.02	U	< 0.0097	U	< 0.012	U
CAR-PDI-AA19A	CAR-PDI-AA19A-15.2-15.7	JC22070A	JC22070-8A	15.2 - 15.7	10.9	-4.3	-4.8	06/13/2016	Yes	< 0.051	UJ	< 0.13	UJ	< 0.048	UJ	< 0.075	UJ	< 0.037	UJ	< 0.046	UJ
CAR-PDI-DD21A	CAR-PDI-DD21A-1.5-2.0	JC22070A	JC22070-20A	1.5 - 2.0	10.7	9.2	8.7	06/13/2016	Yes	< 0.013	U	< 0.034	U	1.73		< 0.019	U	< 0.0094	U	4.68	
CAR-PDI-DD21A	CAR-PDI-DD21A-3.5-4.0	JC22070A	JC22070-24A	3.5 - 4.0	10.7	7.2	6.7	06/13/2016	Yes	< 0.014	U	< 0.037	U	6.18	J	< 0.021	U	< 0.01	U	7.14	J
CAR-PDI-DD21A	CAR-PDI-DD21A-5.5-6.0	JC22070A	JC22070-25A	5.5 - 6.0	10.7	5.2	4.7	06/13/2016	Yes	< 0.018	U	< 0.047	U	4.81		< 0.026	U	< 0.013	U	6.42	
CAR-PDI-DD21A	CAR-PDI-DD21A-7.5-8.0	JC22070A	JC22070-26A	7.5 - 8.0	10.7	3.2	2.7	06/13/2016	Yes	< 0.073	UJ	< 0.19	UJ	321	J	< 0.11	UJ	< 0.052	UJ	140	J
CAR-PDI-DD21A	CAR-PDI-DD21A-9.5-10.0	JC22070A	JC22070-27A	9.5 - 10.0	10.7	1.2	0.7	06/13/2016	Yes	< 0.29	U	< 0.76	U	1380		< 0.42	U	< 0.21	U	469	
CAR-PDI-DD21A	CAR-PDI-DD21A-11.5-12.0	JC22070A	JC22070-21A	11.5 - 12.0	10.7	-0.8	-1.3	06/13/2016	Yes	< 0.071	UJ	< 0.19	UJ	65.6	J	< 0.1	UJ	< 0.051	UJ	18.8	J
CAR-PDI-DD21A	CAR-PDI-DD21A-13.5-14.0	JC22070A	JC22070-22A	13.5 - 14.0	10.7	-2.8	-3.3	06/13/2016	Yes	< 0.014	U	< 0.035	U	0.784		< 0.02	U	< 0.0098	U	0.339	
CAR-PDI-DD21A	CAR-PDI-DD21A-14.0-14.5	JC22070A	JC22070-23A	14.0 - 14.5	10.7	-3.3	-3.8	06/13/2016	Yes	< 0.025	UJ	< 0.065	UJ	0.277	J	0.131	J	< 0.018	UJ	0.1	J
EF-64	EF-B64-2.5	460271661	460-27166-10	2.5 - 3.0	12.6	10.1	9.6	06/02/2011	Yes	< 0.058	U	< 0.22	U	2.2		< 0.056	U	< 0.094	U	2.3	
EF-64	EF-B64-10.5	460271661	460-27166-11	10.5 - 11.0	12.6	2.1	1.6	06/02/2011	Yes	< 0.068	U	< 0.26	U	< 0.094	U	< 0.066	U	< 0.11	U	< 0.093	U
P4-CC20A	P4-CC20A-0.5-1.0	JB83952A	JB83952-2A	0.5 - 1.0	10.1	9.6	9.1	12/11/2014	Yes	< 0.012	U	< 0.062	U	0.191		< 0.038	U	< 0.014	U	0.37	
P4-CC20A	P4-CC20A-2.0-2.5	JB83952A	JB83952-3A	2.0 - 2.5	10.1	8.1	7.6	12/11/2014	Yes	< 0.012	U	< 0.063	U	0.108		< 0.039	U	< 0.014	U	0.32	
P4-CC20A	P4-CC20A-4.0-4.5	JB83952A	JB83952-4A	4.0 - 4.5	10.1	6.1	5.6	12/11/2014	Yes	< 0.053	U	< 0.29	U	10.3		< 0.18	U	< 0.065	U	23.1	
P4-CC20A	P4-CC20A-6.0-6.5	JB83952A	JB83952-5A	6.0 - 6.5	10.1	4.1	3.6	12/11/2014	Yes	< 0.059	U	< 0.32	U	18.2		< 0.19	U	< 0.072	U	38.9	
P4-CC20A	P4-CC20A-8.0-8.5	JB83952A	JB83952-6A	8.0 - 8.5	10.1	2.1	1.6	12/11/2014	Yes	< 0.011	U	< 0.056	U	37.4		< 0.034	U	< 0.013	U	40	

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Table 1C
Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group
SVOC - semi-volatile organic compound

Table 1D
Validated PCBs Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte	PCB 1016		PCB 1221		PCB 1232		PCB 1242		PCB 1248		PCB 1254		PCB 1260		PCB 1262		PCB 1268	
									CAS RN	12674-11-2		11104-28-2		11141-16-5		53469-21-9		12672-29-6		11097-69-1		11096-82-5		37324-23-5		11100-14-4	
									Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									MSSRS	0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
133-EE23A-PB	133-EE23A-PB-3.5-4.0	JC15148	JC15148-1A	3.5 - 4.0	9.5	6	5.5	03/01/2016	Yes	< 0.015	U	< 0.037	U	< 0.019	U	< 0.017	U	< 0.014	U	< 0.026	U	< 0.012	U	< 0.016	U	< 0.012	U
133RI-EE23A-SW-N1	133RI-EE23A-SW-N-1.0-1.5	JC15330	JC15330-1A	1.0 - 1.5	9.5	8.5	8	03/03/2016	Yes	< 0.011	U	< 0.027	U	< 0.014	U	< 0.012	U	< 0.0098	U	< 0.019	U	< 0.0090	U	< 0.011	U	< 0.0083	U
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.076	U	< 0.12	U	**< 0.23**	**U**	< 0.075	U	**4.9**		< 0.14	U	< 0.044	U	< 0.068	U	< 0.068	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.015	U	< 0.024	U	< 0.045	U	< 0.015	U	< 0.021	U	< 0.027	U	< 0.0089	U	< 0.014	U	< 0.014	U
143-P3A-E15A	143-P3A-E15A-2.0-2.5	JB38363	JB38363-3	2.0 - 2.5	12.6	10.6	10.1	05/30/2013	Yes	< 0.011	U	< 0.026	U	< 0.022	U	< 0.014	U	< 0.013	U	< 0.02	U	< 0.014	U	< 0.014	U	< 0.013	U
143-P3A-E15A	143-P3A-E15A-4.0-4.5	JB38363	JB38363-4	4.0 - 4.5	12.6	8.6	8.1	05/30/2013	Yes	< 0.01	U	< 0.024	U	< 0.02	U	< 0.013	U	< 0.012	U	< 0.018	U	< 0.013	U	< 0.013	U	< 0.012	U
143-P3A-E15A	143-P3A-E15A-4.0-4.5X	JB38363	JB38363-5	4.0 - 4.5	12.6	8.6	8.1	05/30/2013	Yes	< 0.0093	U	< 0.021	U	< 0.018	U	< 0.011	U	< 0.011	U	< 0.017	U	< 0.012	U	< 0.011	U	< 0.01	U
143-P3A-E15A	143-P3A-E15A-5.0-5.5	JB33735	JB33735-11	5.0 - 5.5	12.6	7.6	7.1	04/09/2013	Yes	< 0.0098	U	< 0.023	U	< 0.019	U	< 0.012	U	< 0.012	U	< 0.018	U	< 0.012	U	< 0.012	U	< 0.011	U
143-P3A-E15A	143-P3A-E15A-7.0-7.5	JB33735	JB33735-10	7.0 - 7.5	12.6	5.6	5.1	04/09/2013	Yes	< 0.01	U	< 0.023	U	< 0.02	U	< 0.012	U	< 0.012	U	< 0.018	U	< 0.013	U	< 0.012	U	< 0.011	U
143-P3A-E15A	143-P3A-E15A-9.0-9.5	JB33735	JB33735-9	9.0 - 9.5	12.6	3.6	3.1	04/09/2013	Yes	< 0.012	U	< 0.027	U	< 0.023	U	< 0.014	U	< 0.014	U	< 0.021	U	< 0.015	U	< 0.014	U	< 0.013	U
143-P3A-E15A	143-P3A-E15A-9.0-9.5X	JB33735	JB33735-8	9.0 - 9.5	12.6	3.6	3.1	04/09/2013	Yes	< 0.011	U	< 0.026	U	< 0.022	U	< 0.014	U	< 0.013	U	< 0.02	U	< 0.014	U	< 0.014	U	< 0.013	U
143-P3A-E15A	143-P3A-E15A-11.0-11.5	JB33735	JB33735-7	11.0 - 11.5	12.6	1.6	1.1	04/09/2013	Yes	< 0.01	U	< 0.024	U	< 0.02	U	< 0.013	U	< 0.012	U	< 0.019	U	< 0.013	U	< 0.013	U	< 0.012	U
143-P3A-E15A	143-P3A-E15A-13.0-13.5	JB33735	JB33735-6	13.0 - 13.5	12.6	-0.4	-0.9	04/09/2013	Yes	< 0.011	U	< 0.025	U	< 0.021	U	< 0.013	U	< 0.013	U	< 0.02	U	< 0.014	U	< 0.013	U	< 0.012	U
143-P3A-E15A	143-P3A-E15A-14.1-14.6	JB33735	JB33735-5	14.1 - 14.6	12.6	-1.5	-2	04/09/2013	Yes	< 0.013	U	< 0.03	U	< 0.025	U	< 0.016	U	< 0.015	U	< 0.023	U	< 0.016	U	< 0.016	U	< 0.014	U
143-P3A-E15A	143-P3A-E15A-14.6-15.1	JB33735	JB33735-4	14.6 - 15.1	12.6	-2	-2.5	04/09/2013	Yes	< 0.024	UJ	< 0.056	UJ	< 0.047	UJ	< 0.03	UJ	< 0.028	UJ	< 0.044	UJ	< 0.031	UJ	< 0.03	UJ	< 0.028	UJ

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Table 1D
Validated PCBs Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
PCB - polychlorinated biphenyl
SDG - Sample Delivery Group

Table 1E
Validated EPH Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte CAS RN Units MSSRS	C10-C12 Aromatics AROC10C12 mg/kg		C12-C16 Aliphatics ALPC12C16 mg/kg		C12-C16 Aromatics AROC12C16 mg/kg		C16-C21 Aliphatics ALPC16C21 mg/kg		C16-C21 Aromatics AROC16C21 mg/kg		C21-C36 Aromatics AROC21C36 mg/kg		C21-C40 Aliphatics ALPC21C40 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
133-EE23A-PB	133-EE23A-PB-3.5-4.0	JC15148	JC15148-1	3.5 - 4.0	9.5	6	5.5	03/01/2016	Yes	< 0.55	U	< 0.35	U	< 0.50	U	11.4		157	J	254	J	107	
133RI-EE23A-SW-N1	133RI-EE23A-SW-N-1.0-1.5	JC15330	JC15330-1	1.0 - 1.5	9.5	8.5	8	03/03/2016	Yes	< 0.39	U	< 0.25	U	< 0.35	U	< 0.48	U	< 0.71	U	< 0.85	U	110	
143-RI-C15A-PB	143-RI-C15A-PB-6.0-6.5	JC55251	JC55251-1	6.0 - 6.5	12.7	6.7	6.2	11/10/2017	Yes	< 0.073	U	< 0.12	U	< 0.17	U	< 2.3	U	< 0.31	U	< 0.43	U	< 0.77	U

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Table 1E
Validated EPH Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte CAS RN Units MSSRS	C9-C12 Aliphatics ALPC9C12 mg/kg		Total Aliphatics TALIPHATICS mg/kg		Total Aromatics TAROMATICS mg/kg		Total EPH TEPH mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
133-EE23A-PB	133-EE23A-PB-3.5-4.0	JC15148	JC15148-1	3.5 - 4.0	9.5	6	5.5	03/01/2016	Yes	< 0.45	U	118		411	J	529	J
133RI-EE23A-SW-N1	133RI-EE23A-SW-N-1.0-1.5	JC15330	JC15330-1	1.0 - 1.5	9.5	8.5	8	03/03/2016	Yes	< 0.32	U	110		< 0.35	U	110	
143-RI-C15A-PB	143-RI-C15A-PB-6.0-6.5	JC55251	JC55251-1	6.0 - 6.5	12.7	6.7	6.2	11/10/2017	Yes	< 0.13	U	< 0.12	U	< 0.073	U	< 0.073	U

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Table 1E
Validated EPH Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
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J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
EPH - Extractable Petroleum Hydrocarbons
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group

Table 1F
Validated Herbicides Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte CAS RN Units MSSRS	2,4,5-T 93-76-5 mg/kg		2,4,5-TP (SILVEX) 93-72-1 mg/kg		2,4-D 94-75-7 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.0040	U	< 0.0022	U	< 0.0026	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.0041	U	< 0.0022	U	< 0.0026	U

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Table 1F
Validated Herbicides Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group

Table 1G
Validated Pesticides Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte	4,4'-DDD		4,4'-DDE		4,4'-DDT		ALDRIN		ALPHA-BHC		BETA-BHC		CHLORDANE		DELTA-BHC		DIELDRIN		ENDOSULFAN SULFATE	
									CAS RN	72-54-8		72-55-9		50-29-3		309-00-2		319-84-6		319-85-7		57-74-9		319-86-8		60-57-1		1031-07-8	
									Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									MSSRS	3		2		2		0.04		0.1		0.4		0.2				0.04		470	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.00095	U	0.062		0.064		< 0.0017	U	< 0.0015	U	< 0.0011	U	< 0.017	U	< 0.0012	U	0.022		< 0.0010	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.00095	U	< 0.0016	U	< 0.0010	U	< 0.0018	U	< 0.0015	U	< 0.0011	U	< 0.017	U	< 0.0012	U	< 0.0015	U	< 0.0010	U

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Table 1G
Validated Pesticides Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

									Analyte CAS RN Units MSSRS	ENDOSULFAN-I 959-98-8 mg/kg 470		ENDOSULFAN-II 33213-65-9 mg/kg 470		ENDRIN 72-20-8 mg/kg 23		ENDRIN ALDEHYDE 7421-93-4 mg/kg		ENDRIN KETONE 53494-70-5 mg/kg		GAMMA-BHC (LINDANE) 58-89-9 mg/kg 0.4		HEPTACHLOR 76-44-8 mg/kg 0.1		HEPTACHLOR EPOXIDE 1024-57-3 mg/kg 0.07		METHOXYCHLOR 72-43-5 mg/kg 390		TOXAPHENE 8001-35-2 mg/kg 0.6	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
143-DD1-B03	DD1-B03-0.5	460343531	460-34353-5	0.5 - 1.0	12.6	12.1	11.6	12/05/2011	Yes	< 0.0017	U	< 0.0012	U	< 0.0011	U	< 0.0020	U	< 0.0012	U	0.019		0.034		**0.094**		< 0.00089	U	< 0.017	U
143-DD1-B03	DD1-B03-1.5	460343531	460-34353-6	1.5 - 2.0	12.6	11.1	10.6	12/05/2011	Yes	< 0.0017	U	< 0.0012	U	< 0.0011	U	< 0.0020	U	< 0.0012	U	< 0.00093	U	< 0.0011	U	< 0.0016	U	< 0.00090	U	< 0.017	U

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Table 1G
Validated Pesticides Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group

Table 2A
Non-Validated non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										ALUMINUM		ARSENIC		BARIUM		BERYLLIUM		CADMIUM		CALCIUM METAL		COBALT		COPPER	
									Analyte	7429-90-5		7440-38-2		7440-39-3		7440-41-7		7440-43-9		7440-70-2		7440-48-4		7440-50-8	
									CAS RN																
									Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									MSSRS	78000		19		16000		16		78				590		3100	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	13200		5.7		71.4		0.3	B	< 0.14	U	2300		5.7	B	22.6	
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	7530		< 0.8	U	122		0.46	B	< 0.1	U	427	B	4.4	B	13.1	
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	1680		< 0.74	U	16.2	B	0.37	B	< 0.093	U	956	B	1.2	B	3.9	B
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	1360		< 0.77	U	12.5	B	0.41	B	< 0.097	U	655	B	1.3	B	4.3	B
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	1530		< 0.78	U	12.7	B	0.28	B	< 0.097	U	8240		1.6	B	5	B
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	8450		5.3		61.6		0.77		< 0.099	U	1970		5.1	B	36.1	
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	1550		< 0.79	U	11.5	B	0.26	B	< 0.099	U	648	B	1.4	B	4.3	B
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	1690		< 0.82	U	14.9	B	0.36	B	< 0.1	U	9030		1.8	B	4.8	B
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	1650		< 0.78	U	9.8	B	0.32	B	< 0.097	U	8580		1.8	B	6.3	

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Table 2A
Non-Validated non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	CYANIDE 57-12-5 mg/kg 47		Cyanide, Amenable 57-12-5A mg/kg		IRON 7439-89-6 mg/kg		LEAD 7439-92-1 mg/kg 400		MAGNESIUM 7439-95-4 mg/kg		MANGANESE 7439-96-5 mg/kg 5900		MERCURY 7439-97-6 mg/kg 23		POTASSIUM 7440-09-7 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.5	U	< 0.5	U	32900		96.2		3880		179		0.05	B	3680	
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.5	U	< 0.5	U	11200		7.3		2340		85.8		0.02	B	1080	B
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.5	U	< 0.5	U	5470		3.6		941	B	29.1		< 0.018	U	576	B
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.5	U	< 0.5	U	4370		3.6		833	B	25		< 0.02	U	458	B
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.5	U	< 0.5	U	4680		3.9		1540		174		< 0.02	U	483	B
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.5	U	< 0.5	U	13900		73		2800		384		0.33		1080	B
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.5	U	< 0.5	U	4480		3.3		890	B	26.3		< 0.021	U	495	B
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.5	U	< 0.5	U	4780		3.8		1610		190		< 0.021	U	467	B
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.5	U	< 0.5	U	4860		3.9		1540		162		< 0.02	U	455	B

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Table 2A
Non-Validated non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	SELENIUM 7782-49-2 mg/kg 390		SILVER 7440-22-4 mg/kg 390		SODIUM 7440-23-5 mg/kg		ZINC 7440-66-6 mg/kg 23000	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 1.5	U	< 0.49	U	3330		84.3	
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 1	U	< 0.35	U	1420		48.1	
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.97	U	< 0.32	U	730	B	15.4	
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 1	U	< 0.34	U	674	B	16.2	
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 1	U	< 0.34	U	968	B	20.7	
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 1	U	< 0.35	U	707	B	339	
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 1	U	< 0.35	U	581	B	17	
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 1.1	U	< 0.36	U	880	B	16.3	
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 1	U	< 0.34	U	894	B	18.9	

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Table 2A
Non-Validated non-CCPW Metals Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
B - The result is qualified due to potential laboratory blank contamination.
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group

Table 2B
Non-Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	1,1,1-TRICHLOROETHANE 71-55-6 mg/kg 160000		1,1,2,2-TETRACHLOROETHANE 79-34-5 mg/kg 1		1,1,2-TRICHLOROETHANE 79-00-5 mg/kg 2		1,1-DICHLOROETHANE 75-34-3 mg/kg 8		1,1-DICHLOROETHYLENE 75-35-4 mg/kg 11		1,2-DICHLOROETHANE 107-06-2 mg/kg 0.9		1,2-DICHLOROPROPANE 78-87-5 mg/kg 2	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.01	U	< 0.0021	U	< 0.0063	U	< 0.01	U	< 0.0042	U	< 0.0042	U	< 0.0021	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.0052	U	< 0.001	U	< 0.0031	U	< 0.0052	U	< 0.0021	U	< 0.0021	U	< 0.001	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.68	U	< 0.14	U	< 0.41	U	< 0.68	U	< 0.27	U	< 0.27	U	< 0.14	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.52	U	< 0.1	U	< 0.31	U	< 0.52	U	< 0.21	U	< 0.21	U	< 0.1	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.0062	U	< 0.0012	U	< 0.0037	U	< 0.0062	U	< 0.0025	U	< 0.0025	U	< 0.0012	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.0068	U	< 0.0014	U	< 0.0041	U	< 0.0068	U	< 0.0027	U	< 0.0027	U	< 0.0014	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.54	U	< 0.11	U	< 0.32	U	< 0.54	U	< 0.22	U	< 0.22	U	< 0.11	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.0075	U	< 0.0015	U	< 0.0045	U	< 0.0075	U	< 0.003	U	< 0.003	U	< 0.0015	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.0055	U	< 0.0011	U	< 0.0033	U	< 0.0055	U	< 0.0022	U	< 0.0022	U	< 0.0011	U

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Table 2B
Non-Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	2-BUTANONE (MEK) 78-93-3 mg/kg 3100		4-METHYL-2-PENTANONE (MIBK) 108-10-1 mg/kg		ACETONE 67-64-1 mg/kg 70000		BENZENE 71-43-2 mg/kg 2		BROMODICHLOROMETHANE 75-27-4 mg/kg 1		BROMOMETHANE 74-83-9 mg/kg 25		CARBON DISULFIDE 75-15-0 mg/kg 7800	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.01	U	< 0.01	U	0.12		< 0.0021	U	< 0.0021	U	< 0.01	U	0.017	
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.0052	U	< 0.0052	U	< 0.0052	U	0.14		< 0.001	U	< 0.0052	U	0.0026	J
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.68	U	< 0.68	U	< 0.68	U	0.87		< 0.14	U	< 0.68	U	< 0.68	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.52	U	< 0.52	U	< 0.52	U	< 0.1	U	< 0.1	U	< 0.52	U	< 0.52	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.0062	U	< 0.0062	U	< 0.0062	U	< 0.0012	U	< 0.0012	U	< 0.0062	U	0.0008	J
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.0068	U	< 0.0068	U	0.089		< 0.0014	U	< 0.0014	U	< 0.0068	U	0.002	J
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.54	U	< 0.54	U	< 0.54	U	1.3		< 0.11	U	< 0.54	U	< 0.54	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.0075	U	< 0.0075	U	< 0.0075	U	< 0.0015	U	< 0.0015	U	< 0.0075	U	0.0014	J
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.0055	U	< 0.0055	U	0.038		< 0.0011	U	< 0.0011	U	< 0.0055	U	0.0005	J

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Table 2B
Non-Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
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										Analyte	CARBON TETRACHLORIDE		CHLOROBENZENE		CHLORODIBROMO METHANE		CHLOROETHANE		CHLOROFORM		CHLOROMETHANE		CIS-1,2-DICHLOROETHENE	
										CAS RN	56-23-5		108-90-7		124-48-1		75-00-3		67-66-3		74-87-3		156-59-2	
										Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
										MSSRS	2		510		3		220		0.6		4		230	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.0042	U	< 0.01	U	< 0.01	U	< 0.01	U	< 0.01	U	< 0.01	U	< 0.01	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.0021	U	< 0.0052	U	< 0.0052	U	< 0.0052	U	< 0.0052	U	< 0.0052	U	< 0.0052	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.27	U	< 0.68	U	< 0.68	U	< 0.68	U	< 0.68	U	**< 0.68**	**U**	< 0.68	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.21	U	< 0.52	U	< 0.52	U	< 0.52	U	< 0.52	U	< 0.52	U	< 0.52	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.0025	U	< 0.0062	U	< 0.0062	U	< 0.0062	U	< 0.0062	U	< 0.0062	U	< 0.0062	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.0027	U	< 0.0068	U	< 0.0068	U	< 0.0068	U	< 0.0068	U	< 0.0068	U	< 0.0068	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.22	U	< 0.54	U	< 0.54	U	< 0.54	U	< 0.54	U	< 0.54	U	< 0.54	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.003	U	< 0.0075	U	< 0.0075	U	< 0.0075	U	< 0.0075	U	< 0.0075	U	< 0.0075	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.0022	U	< 0.0055	U	< 0.0055	U	< 0.0055	U	< 0.0055	U	< 0.0055	U	< 0.0055	U

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Table 2B
Non-Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
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										Analyte	CIS-1,3-DICHLOROPROPENE		DICHLOROMETHANE		ETHYLBENZENE		METHYL N-BUTYL KETONE		STYRENE (MONOMER)		TETRACHLOROETHENE		TOLUENE	
										CAS RN	10061-01-5		75-09-2		100-41-4		591-78-6		100-42-5		127-18-4		108-88-3	
										Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
										MSSRS	2		46		7800				90		43		6300	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.01	U	< 0.0063	U	< 0.0084	U	< 0.01	U	< 0.01	U	< 0.0021	U	< 0.01	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.0052	U	< 0.0031	U	0.0098		< 0.0052	U	< 0.0052	U	< 0.001	U	0.0024	J
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.68	U	< 0.41	U	0.16	J	< 0.68	U	< 0.68	U	< 0.14	U	0.18	J
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.52	U	< 0.31	U	< 0.41	U	< 0.52	U	< 0.52	U	< 0.1	U	< 0.52	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.0062	U	< 0.0037	U	< 0.005	U	< 0.0062	U	< 0.0062	U	< 0.0012	U	< 0.0062	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.0068	U	< 0.0041	U	< 0.0054	U	< 0.0068	U	< 0.0068	U	< 0.0014	U	< 0.0068	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.54	U	< 0.32	U	0.12	J	< 0.54	U	< 0.54	U	< 0.11	U	0.24	J
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.0075	U	< 0.0045	U	< 0.006	U	< 0.0075	U	< 0.0075	U	< 0.0015	U	< 0.0075	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.0055	U	< 0.0033	U	< 0.0044	U	< 0.0055	U	< 0.0055	U	< 0.0011	U	< 0.0055	U

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Table 2B
Non-Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
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										Analyte CAS RN Units MSSRS	TRANS-1,2-DICHLOROETHENE 156-60-5 mg/kg 300		TRANS-1,3-DICHLOROPROPENE 10061-02-6 mg/kg 2		TRIBROMOMETHANE 75-25-2 mg/kg 81		TRICHLOROETHYLENE 79-01-6 mg/kg 3		VINYL CHLORIDE 75-01-4 mg/kg 0.7		XYLENES 1330-20-7 mg/kg 12000	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.01	U	< 0.01	U	< 0.0084	U	< 0.0021	U	< 0.01	U	< 0.01	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.0052	U	< 0.0052	U	< 0.0042	U	< 0.001	U	< 0.0052	U	0.0096	
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.68	U	< 0.68	U	< 0.54	U	< 0.14	U	< 0.68	U	0.1	J
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.52	U	< 0.52	U	< 0.41	U	< 0.1	U	< 0.52	U	< 0.52	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.0062	U	< 0.0062	U	< 0.005	U	< 0.0012	U	< 0.0062	U	< 0.0062	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.0068	U	< 0.0068	U	< 0.0054	U	< 0.0014	U	< 0.0068	U	< 0.0068	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.54	U	< 0.54	U	< 0.43	U	< 0.11	U	< 0.54	U	0.22	J
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.0075	U	< 0.0075	U	< 0.006	U	< 0.0015	U	< 0.0075	U	< 0.0075	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.0055	U	< 0.0055	U	< 0.0044	U	< 0.0011	U	< 0.0055	U	< 0.0055	U

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Table 2B
Non-Validated VOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group
VOC - volatile organic compound

Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	1,2,4-TRICHLOROBENZENE 120-82-1 mg/kg 73		1,2-DICHLOROBENZENE 95-50-1 mg/kg 5300		1,4-DICHLOROBENZENE 106-46-7 mg/kg 5		2,2'-OXYBIS(1-CHLOROPROPANE) 108-60-1 mg/kg 23		2,4,5-TRICHLOROPHENOL 95-95-4 mg/kg 6100		2,4,6-TRICHLOROPHENOL 88-06-2 mg/kg 19		2,4-DICHLOROPHENOL 120-83-2 mg/kg 180	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.058	U	< 0.58	U	< 0.58	U	< 0.58	U	< 0.58	U	< 0.58	U	< 0.58	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.042	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.042	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.04	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.04	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.041	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.041	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.043	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.04	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U

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Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	2,4-DIMETHYLPHENOL 105-67-9 mg/kg 1200		2,4-DINITROPHENOL 51-28-5 mg/kg 120		2,4-DINITROTOLUENE 121-14-2 mg/kg 0.7		2,6-DINITROTOLUENE 606-20-2 mg/kg 0.7		2-CHLORONAPHTHALENE 91-58-7 mg/kg		2-CHLOROPHENOL 95-57-8 mg/kg 310		2-METHYLNAPHTHALENE 91-57-6 mg/kg 230	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.58	U	< 1.7	U	< 0.12	U	< 0.12	U	< 0.58	U	< 0.58	U	< 0.58	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.42	U	< 1.2	U	< 0.083	U	< 0.083	U	< 0.42	U	< 0.42	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.42	U	< 1.3	U	< 0.085	U	< 0.085	U	< 0.42	U	< 0.42	U	0.0085	J
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.4	U	< 1.2	U	< 0.08	U	< 0.08	U	< 0.4	U	< 0.4	U	< 0.4	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.4	U	< 1.2	U	< 0.081	U	< 0.081	U	< 0.4	U	< 0.4	U	< 0.4	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.41	U	< 1.2	U	< 0.082	U	< 0.082	U	< 0.41	U	< 0.41	U	0.023	J
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.41	U	< 1.2	U	< 0.083	U	< 0.083	U	< 0.41	U	< 0.41	U	0.014	J
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.43	U	< 1.3	U	< 0.086	U	< 0.086	U	< 0.43	U	< 0.43	U	< 0.43	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.4	U	< 1.2	U	< 0.081	U	< 0.081	U	< 0.4	U	< 0.4	U	< 0.4	U

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Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	2-METHYLPHENOL 95-48-7 mg/kg 310		2-NITROANILINE 88-74-4 mg/kg 39		2-NITROPHENOL 88-75-5 mg/kg		3,3'- DICHLOROBENZIDINE 91-94-1 mg/kg 1		3,5,5-TRIMETHYL-2- CYCLOHEXENE-1-ONE 78-59-1 mg/kg 510		3+4-METHYLPHENOL 106-44-5 mg/kg 31		3-NITROANILINE 99-09-2 mg/kg	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.58	U	< 1.2	U	< 0.58	U	**< 1.2**	**U**	< 0.58	U	< 0.58	U	< 1.2	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.42	U	< 0.83	U	< 0.42	U	< 0.83	U	< 0.42	U	< 0.42	U	< 0.83	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.42	U	< 0.85	U	< 0.42	U	< 0.85	U	< 0.42	U	< 0.42	U	< 0.85	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.4	U	< 0.8	U	< 0.4	U	< 0.8	U	< 0.4	U	< 0.4	U	< 0.8	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.4	U	< 0.81	U	< 0.4	U	< 0.81	U	< 0.4	U	< 0.4	U	< 0.81	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.41	U	< 0.82	U	< 0.41	U	< 0.82	U	< 0.41	U	0.021	J	< 0.82	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.41	U	< 0.83	U	< 0.41	U	< 0.83	U	< 0.41	U	< 0.41	U	< 0.83	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.43	U	< 0.86	U	< 0.43	U	< 0.86	U	< 0.43	U	< 0.43	U	< 0.86	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.4	U	< 0.81	U	< 0.4	U	< 0.81	U	< 0.4	U	< 0.4	U	< 0.81	U

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Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
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										Analyte CAS RN Units MSSRS	4,6-DINITRO-2-METHYLPHENOL 534-52-1 mg/kg 6		4-BROMOPHENYL PHENYL ETHER 101-55-3 mg/kg		4-CHLORO-3-METHYLPHENOL 59-50-7 mg/kg		4-CHLOROPHENYL PHENYL ETHER 7005-72-3 mg/kg		4-NITROPHENOL 100-02-7 mg/kg		ACENAPHTHENE 83-32-9 mg/kg 3400		ACENAPHTHYLENE 208-96-8 mg/kg 300000	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 1.7	U	< 0.58	U	< 0.58	U	< 0.58	U	< 1.7	U	< 0.58	U	< 0.58	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 1.2	U	< 0.42	U	< 0.42	U	< 0.42	U	< 1.2	U	< 0.42	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 1.3	U	< 0.42	U	< 0.42	U	< 0.42	U	< 1.3	U	< 0.42	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 1.2	U	< 0.4	U	< 0.4	U	< 0.4	U	< 1.2	U	< 0.4	U	< 0.4	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 1.2	U	< 0.4	U	< 0.4	U	< 0.4	U	< 1.2	U	< 0.4	U	< 0.4	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 1.2	U	< 0.41	U	< 0.41	U	< 0.41	U	< 1.2	U	0.028	J	0.034	J
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 1.2	U	< 0.41	U	< 0.41	U	< 0.41	U	< 1.2	U	0.0097	J	< 0.41	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 1.3	U	< 0.43	U	< 0.43	U	< 0.43	U	< 1.3	U	< 0.43	U	< 0.43	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 1.2	U	< 0.4	U	< 0.4	U	< 0.4	U	< 1.2	U	< 0.4	U	< 0.4	U

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Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
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										Analyte CAS RN Units MSSRS	ANTHRACENE 120-12-7 mg/kg 17000		BENZO(A)ANTHRACENE 56-55-3 mg/kg 5		BENZO(A)PYRENE 50-32-8 mg/kg 0.5		BENZO(B)FLUOR ANTHENE 205-99-2 mg/kg 5		BENZO(G,H,I)PERYLENE 191-24-2 mg/kg 30000		BENZO(K)FLUOR ANTHENE 207-08-9 mg/kg 45		BENZYL BUTYL PHTHALATE 85-68-7 mg/kg 1200	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.58	U	< 0.058	U	< 0.058	U	< 0.058	U	< 0.58	U	< 0.058	U	< 0.58	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.42	U	< 0.042	U	< 0.042	U	< 0.042	U	< 0.42	U	< 0.042	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.42	U	< 0.042	U	< 0.042	U	< 0.042	U	< 0.42	U	< 0.042	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.4	U	< 0.04	U	< 0.04	U	< 0.04	U	< 0.4	U	< 0.04	U	< 0.4	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.4	U	< 0.04	U	< 0.04	U	< 0.04	U	< 0.4	U	< 0.04	U	< 0.4	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	0.065	J	0.16		0.14		0.11		0.079	J	0.12		< 0.41	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.41	U	< 0.041	U	< 0.041	U	< 0.041	U	< 0.41	U	< 0.041	U	< 0.41	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.43	U	< 0.043	U	< 0.043	U	< 0.043	U	< 0.43	U	< 0.043	U	< 0.43	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.4	U	< 0.04	U	< 0.04	U	< 0.04	U	< 0.4	U	< 0.04	U	< 0.4	U

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Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										BIS(-2-CHLOROETHOXY) METHANE		BIS(2-CHLOROETHYL)ETHER		BIS(2-ETHYLHEXYL) PHTHALATE		CARBAZOLE		CHRYSENE		DIBENZO(A,H) ANTHRACENE		DIBENZOFURAN	
									Analyte	111-91-1		111-44-4		117-81-7		86-74-8		218-01-9		53-70-3		132-64-9	
									CAS RN	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
									Units			0.4		35		24		450		0.5			
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.58	U	< 0.058	U	< 0.58	U	< 0.58	U	0.04	J	< 0.058	U	< 0.58	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.42	U	< 0.042	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.042	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.42	U	< 0.042	U	0.12	J	< 0.42	U	< 0.42	U	< 0.042	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.4	U	< 0.04	U	0.1	J	< 0.4	U	< 0.4	U	< 0.04	U	< 0.4	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.4	U	< 0.04	U	0.26	J	< 0.4	U	< 0.4	U	< 0.04	U	< 0.4	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.41	U	< 0.041	U	1.7		0.018	J	0.18	J	< 0.041	U	< 0.41	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.41	U	< 0.041	U	0.096	J	< 0.41	U	< 0.41	U	< 0.041	U	< 0.41	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.43	U	< 0.043	U	0.12	J	< 0.43	U	< 0.43	U	< 0.043	U	< 0.43	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.4	U	< 0.04	U	0.18	J	< 0.4	U	< 0.4	U	< 0.04	U	< 0.4	U

Notes on last page

Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	DIETHYL PHTHALATE 84-66-2 mg/kg 49000		DIMETHYL PHTHALATE 131-11-3 mg/kg		DI-N-BUTYLPHTHALATE 84-74-2 mg/kg 6100		DI-N-OCTYL PHTHALATE 117-84-0 mg/kg 2400		FLUORANTHENE 206-44-0 mg/kg 2300		FLUORENE 86-73-7 mg/kg 2300		HEXACHLORO-1,3-BUTADIENE 87-68-3 mg/kg 6	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.58	U	< 0.58	U	< 0.58	U	< 0.58	U	0.053	J	< 0.58	U	< 0.12	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.083	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.42	U	< 0.085	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.08	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.081	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	0.35	J	0.045	J	< 0.082	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.083	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.086	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.4	U	< 0.081	U

Notes on last page

Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	HEXACHLOROBENZENE 118-74-1 mg/kg 0.3		HEXACHLOROCYCLOPENTADIENE 77-47-4 mg/kg 45		HEXACHLOROETHANE 67-72-1 mg/kg 12		INDENO(1,2,3-CD)PYRENE 193-39-5 mg/kg 5		M-DICHLOROBENZENE 541-73-1 mg/kg 5300		NAPHTHALENE 91-20-3 mg/kg 6		NITROBENZENE 98-95-3 mg/kg 5	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.058	U	< 0.58	U	< 0.058	U	< 0.058	U	< 0.58	U	< 0.58	U	< 0.058	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.042	U	< 0.42	U	< 0.042	U	< 0.042	U	< 0.42	U	0.016	J	< 0.042	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.042	U	< 0.42	U	< 0.042	U	< 0.042	U	< 0.42	U	0.049	J	< 0.042	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.04	U	< 0.4	U	< 0.04	U	< 0.04	U	< 0.4	U	< 0.4	U	< 0.04	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.04	U	< 0.4	U	< 0.04	U	< 0.04	U	< 0.4	U	< 0.4	U	< 0.04	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.041	U	< 0.41	U	< 0.041	U	0.078		< 0.41	U	0.043	J	< 0.041	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.041	U	< 0.41	U	< 0.041	U	< 0.041	U	< 0.41	U	0.072	J	< 0.041	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.043	U	< 0.43	U	< 0.043	U	< 0.043	U	< 0.43	U	< 0.43	U	< 0.043	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.04	U	< 0.4	U	< 0.04	U	< 0.04	U	< 0.4	U	< 0.4	U	< 0.04	U

Notes on last page

Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

										Analyte CAS RN Units MSSRS	N-NITROSO-DI-N-PROPYLAMINE 621-64-7 mg/kg 0.2		N-NITROSODIPHENYLAMINE 86-30-6 mg/kg 99		P-CHLOROANILINE 106-47-8 mg/kg		PENTACHLOROPHENOL 87-86-5 mg/kg 0.9		PHENANTHRENE 85-01-8 mg/kg 300000		PHENOL 108-95-2 mg/kg 18000		P-NITROANILINE 100-01-6 mg/kg		PYRENE 129-00-0 mg/kg 1700	
Location ID	Sample ID	Lab SDG	Lab ID	Depth Interval (ft bgs)	Location Elevation (ft NAVD88)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Collection Date	Validated	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PSEG-SB52	NJD981084668-11/22/2006-SB52_8	Z919	786920	8.5 - 9.0	11.1	2.6	2.1	11/22/2006	No	< 0.058	U	< 0.58	U	< 0.58	U	**< 1.7**	**U**	0.047	J	< 0.58	U	< 1.2	U	0.064	J
PSEG-SB52	NJD981084668-11/27/2006-SB52_21	A011	787468	21.0 - 21.5	11.1	-9.9	-10.4	11/27/2006	No	< 0.042	U	< 0.42	U	< 0.42	U	**< 1.2**	**U**	< 0.42	U	< 0.42	U	< 0.83	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_36	A011	787469	36.3 - 36.8	11.1	-25.2	-25.7	11/27/2006	No	< 0.042	U	< 0.42	U	< 0.42	U	**< 1.3**	**U**	< 0.42	U	< 0.42	U	< 0.85	U	< 0.42	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_42	A011	787470	42.9 - 43.4	11.1	-31.8	-32.3	11/27/2006	No	< 0.04	U	< 0.4	U	< 0.4	U	**< 1.2**	**U**	< 0.4	U	< 0.4	U	< 0.8	U	< 0.4	U
PSEG-SB52	NJD981084668-11/27/2006-SB52_54	A011	787471	54.5 - 55.0	11.1	-43.4	-43.9	11/27/2006	No	< 0.04	U	< 0.4	U	< 0.4	U	**< 1.2**	**U**	< 0.4	U	< 0.4	U	< 0.81	U	< 0.4	U
PSEG-SB54	NJD981084668-11/27/2006-SB54_10	A011	787472	10.0 - 10.5	10.2	0.2	-0.3	11/27/2006	No	< 0.041	U	< 0.41	U	< 0.41	U	**< 1.2**	**U**	0.18	J	< 0.41	U	< 0.82	U	0.35	J
PSEG-SB54	NJD981084668-11/27/2006-SB54_36	A011	787473	36.5 - 37.0	10.2	-26.3	-26.8	11/27/2006	No	< 0.041	U	< 0.41	U	< 0.41	U	**< 1.2**	**U**	0.013	J	< 0.41	U	< 0.83	U	< 0.41	U
PSEG-SB54	NJD981084668-11/28/2006-SB54_42	A102	788113	42.5 - 43.0	10.2	-32.3	-32.8	11/28/2006	No	< 0.043	U	< 0.43	U	< 0.43	U	**< 1.3**	**U**	< 0.43	U	< 0.43	U	< 0.86	U	< 0.43	U
PSEG-SB54	NJD981084668-11/28/2006-788114	A102	788114	55.5 - 56.0	10.2	-45.3	-45.8	11/28/2006	No	< 0.04	U	< 0.4	U	< 0.4	U	**< 1.2**	**U**	< 0.4	U	< 0.4	U	< 0.81	U	< 0.4	U

Notes on last page

Table 2C
Non-Validated SVOC Sample Results Summary
Carteret Avenue Non-Chrome Fill Soil Re-Use Plan
PPG, Jersey City, New Jersey

Notes:
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
U - Indicates the analyte was not detected in the sample above the sample reporting limit.
bgs - below ground surface
Blank cell - Indicates analyte was not analyzed
Bolded value - Indicates exceedance of MSSRS
CAS RN - Chemical Abstracts Service Registry Number
ft - feet or foot
mg/kg - milligrams per kilogram
MSSRS - NJDEP Most Stringent Soil Remediation Standard
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group
SVOC - semi-volatile organic compound

Figures

SITE 114

AREA 1: 900 CY

EL. 11.1
SEE NOTE 1

EL. 7
SEE NOTE 1

EL. 9.8
SEE
NOTE 1

EL. 8
SEE NOTE 1

AREA 2: 600 CY

AREA 3: 200 CY

AREA 4: 200 CY

CARTERET AVENUE

GARFIELD AVENUE

Approx. 2' BGS

Approx. 3' BGS

REFER TO FIGURE 1B

MATCHLINE

SITE 143

SITE 132

SITE 137A

LEGEND

- PROPERTY LINE
- FENCE
- EXISTING SHEET PILE
- CURB
- DEPRESSED CURB
- EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- UTILITY POLE
- GAS VALVE
- CATCH BASIN INLET
- COMBINED SEWER MANHOLE
- FIRE HYDRANT
- GAS UTILITY LINE
- OVERHEAD ELECTRIC UTILITY LINE
- COMMUNICATION LINE–NOT SURVEYED
- WATER UTILITY LINE
- SEWER UTILITY LINE
- UNDERGROUND ELECTRIC UTILITY LINE
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- APPROXIMATE LOCATION OF FORMER MORRIS CANAL
- NON–CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- 13B–J BORING/MONITORING WELL/TEST PIT/POST–EXCAVATION SAMPLE LOCATION WITH NON–CCPW DATA

NOTES:

1. NON–CHROME FILL MATERIAL TO BE REMOVED FROM ELEVATION SHOWN TO THE BOTTOM OF EXCAVATION AND STOCKPILED FOR RE–USE.

2. CCPW DATA INCLUDES HEXAVALENT CHROMIUM AND CCPW–RELATED METALS (ANTIMONY, CHROMIUM, NICKEL, THALLIUM, VANADIUM)

3. ELEVATIONS SHOWN IN FT NAVD88

CCPW	CHROMATE CHEMICAL PRODUCTION WASTE
CY	CUBIC YARD
EL.	ELEVATION
FT	FEET
NAVD88	NORTH AMERICAN DATUM OF 1988

NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83

NORTH

10 0 20
GRAPHIC SCALE IN FEET

AECOM

PPG
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

DATE: 05/22/2019 | DRWN: ASK

NON-CHROME FILL EXCAVATION AREAS
PLAN VIEW
CARTERET AVENUE

FIGURE 1A

LEGEND

- PROPERTY LINE
- FENCE
- EXISTING SHEET PILE
- CURB
- DEPRESSED CURB
- EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- COMBINED SEWER MANHOLE
- GAS VALVE
- WATER VALVE
- CATCH BASIN INLET
- GAS UTILITY LINE
- WATER UTILITY LINE
- 48" STEEL COMBINED SEWER (APPROXIMATE)
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- NON-CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- 13B-J BORING/MONITORING WELL/TEST PIT/POST-EXCAVATION SAMPLE LOCATION WITH NON-CCPW DATA

NOTES:

1. NON-CHROME FILL MATERIAL TO BE REMOVED FROM ELEVATION SHOWN TO THE BOTTOM OF EXCAVATION AND STOCKPILED FOR RE-USE.

2. CCPW DATA INCLUDES HEXAVALENT CHROMIUM AND CCPW-RELATED METALS (ANTIMONY, CHROMIUM, NICKEL, THALLIUM, VANADIUM)

CCPW CHROMATE CHEMICAL PRODUCTION WASTE
CY CUBIC YARD
EL. ELEVATION

REFER TO FIGURE 1A

MATCHLINE

SITE 137A

SITE 114

HALSTED

SITE 133E

SITE 135

HALLADAY STREET

CARTERET AVENUE

GENERATORS

LOADING DOCK

AREA 5: 400 CY

EL. 6.4
SEE NOTE 1

101
PACIFIC
AVENUE

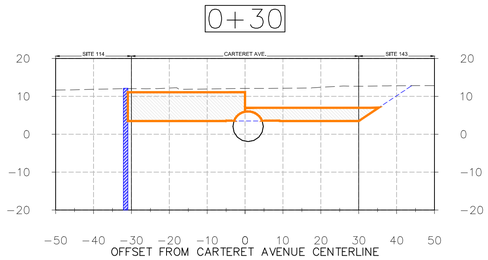
NORTH
NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83

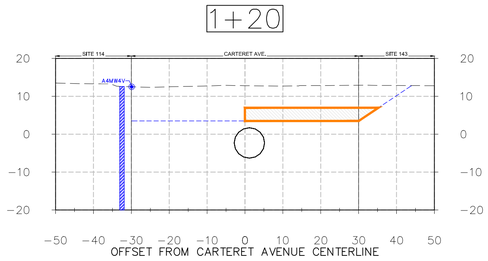
10 0 20
GRAPHIC SCALE IN FEET

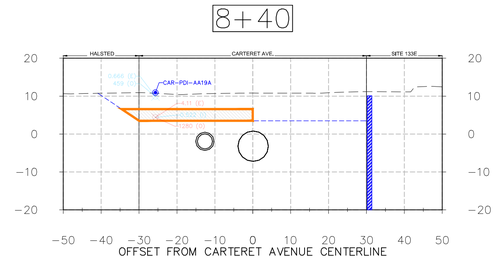
AECOM

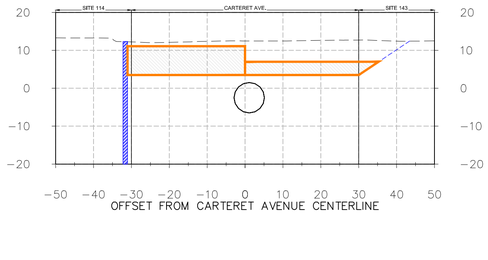
PPG GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY			**NON-CHROME FILL EXCAVATION AREAS PLAN VIEW CARTERET AVENUE**
DATE: 05/30/2019	DRWN: ASK		**FIGURE 1B**

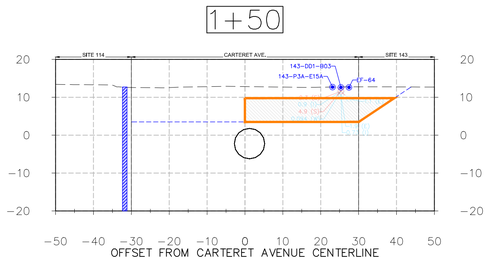
File: P:\Jobs\Prem_Eng\Project Files\PPG Industries\Garfield Avenue\103E Design\CAD\GIS\Cartaret Cross Sections\Plan View-Cx Cross Sections\2019-03-26 Cartaret Remediation Plan View Cx® Data.dwg Layout: FIGURE 1B User: antonns Plotted: May 30, 2019 - 1:41pm Xref:

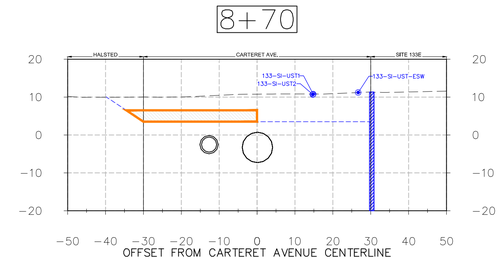


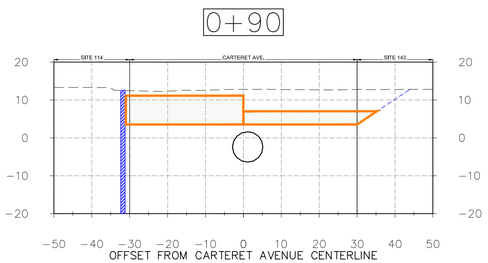


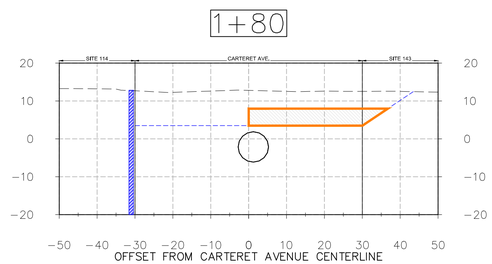


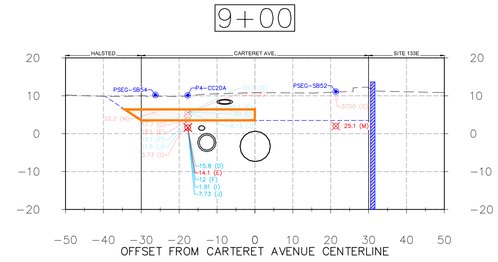












10 0 20
GRAPHIC SCALE IN FEET

LEGEND

- 13B-J — BORING/MONITORING WELL/ TEST PIT/POST-EXCAVATION SAMPLE LOCATION WITH NON-CCPW DATA
- NON-CCPW PARAMETER CONCENTRATION >RDCSRS AND NRDCSRS (PARAMETER CODE)
- NON-CCPW PARAMETER CONCENTRATION >RDCSRS AND NRDCSRS (PARAMETER CODE) TO BE EXCAVATED
- NON-CCPW PARAMETER CONCENTRATION > RDCSRS < NRDCSRS (PARAMETER CODE)
- NON-CCPW PARAMETER CONCENTRATION > RDCSRS < NRDCSRS (PARAMETER CODE) TO BE EXCAVATED
- EXISTING GROUND SURFACE
- PROPOSED EXCAVATION SURFACE
- NON-CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- APPROXIMATE 96" STEEL COMBINED SEWER
- APPROXIMATE 48" STEEL COMBINED SEWER
- 12" DRAIN LINE
- EXISTING SHEETPILE

PARAMETER CODES (FADED RESULT INDICATES SAMPLE TO BE EXCAVATED)

SVOCs

(C)	2-METHLYNAPHTHALENE > RDCSRS < NRDCSRS
(D)	BENZO(A)ANTHRACENE > RDCSRS AND > NRDCSRS
(D)	BENZO(A)ANTHRACENE > RDCSRS < NRDCSRS
(E)	BENZO(A)PYRENE > RDCSRS AND > NRDCSRS
(E)	BENZO(A)PYRENE > RDCSRS < NRDCSRS
(F)	BENZO(B)FLOURANTHENE > RDCSRS AND > NRDCSRS
(F)	BENZO(B)FLOURANTHENE > RDCSRS < NRDCSRS
(I)	DIBENZO(A,H)ANTHRACENE > RDCSRS AND > NRDCSRS
(I)	DIBENZO(A,H)ANTHRACENE > RDCSRS < NRDCSRS
(J)	INDENO(1,2,3-CD)PYRENE > RDCSRS AND > NRDCSRS
(J)	INDENO(1,2,3-CD)PYRENE > RDCSRS < NRDCSRS

METALS

(M)	ARSENIC > RDCSRS AND > NRDCSRS
(N)	COPPER > RDCSRS < NRDCSRS
(O)	LEAD > RDCSRS AND > NRDCSRS
(O)	LEAD > RDCSRS < NRDCSRS

PCBs

(S)	AROCLOR 1248 > RDCSRS AND > NRDCSRS

PESTICIDES

(W)	HEPTACHLOR EPOXIDE > RDCSRS < NRDCSRS

NOTES:

1. SOIL CONCENTRATIONS SHOWN IN MG/KG
2. ELEVATIONS SHOWN IN FT NAVD88

FT NAVD88	FEET IN THE NORTH AMERICAN VERTICAL DATUM OF 1988
MG/KG	MILLIGRAMS PER KILOGRAM
NJDEP	NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
NRDCSRS	NJDEP NON-RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARD
PCBs	POLYCHLORINATED BIPHENYLS
RDCSRS	NJDEP RESIDENTIAL DIRECT CONTACT SOIL REMEDIATION STANDARD
SVOCs	SEMI-VOLATILE ORGANIC COMPOUNDS

SOIL REMEDIATION STANDARDS (MG/KG)		
PARAMETER	**RDCSRS**	**NRDCSRS**
ARSENIC	19	19
COPPER	3100	45000
LEAD	400	800
1-1' BIPHENYL	61	240
2-METHYLNAPHTHALENE	230	2400
BENZO(A)ANTHRACENE	5	17
BENZO(A)PYRENE	0.5	2
BENZO(B)FLUORANTHENE	5	17
DIBENZO(A,H)ANTHRACEN	0.5	2
INDENO(1,2,3-CD)PYRENE	5	17
NAPHTHALENE	6	17
AROCLOR 1248	0.2	1
HEPTACHLOR EPOXIDE	0.07	0.3

AECOM

PPG
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

DATE: 05/30/2019 | DRWN: ASK

NON-CHROME FILL EXCAVATION AREAS CROSS SECTIONAL VIEW NON-CCPW-RELATED IMPACTS - SOIL CARTERET AVENUE

FIGURE 2

Boring Logs

ENSR | AECOM	Client: PPG Industries	BORING ID: **114-MW22B**
	Site: Site 114	
Start Date: 11/15/2006	Project: **Site Investigation**	Page: 1 of 5
	Coordinates: X-610693.8 Y-683255.1	Depth of Boring: 35.00
End Date: 11/21/2006	Elevation: 12.6 ft NAVD88	Geologist: M. Merdinger
	Drill Subcontractor: ADI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		CONCRETE: CONCRETE			
		FILL: Dark Reddish Brown (5YR 3/2) SILT, some fine Sand, little Clay, Fill material (brick, tile, rock), dry. No odor.			
		NR: No Sample	0.0 ppm		
2					
		FILL: Reddish Brown (5YR 4/4) SILT, little Clay and fine Sand, Fill Material (rounded and angular rocks, tile fragments, slag), ~1% COPR, moist. No odor.	0.0 ppm		
		NR: No Sample			
4		FILL: Black Cinders, Ash, Slag and Rock fragments, oyster shell, trace Red (10R 4/6) Clay, moist. No odor.			
		NR: No Recovery			
		FILL: Black and Very Dark Gray Brown (10YR 3/2) sandy SILT, glass, dry. No odor.	2.3 ppm	114-MW22BA (5.0-5.5)	Cr+6, TAL Metals
		FILL: Light Olive Brown (2.5Y 5/6) SILT, medium dense, dry. No odor.			
6		NR: No Recovery			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **114-MW22B**
	Site: Site 114	
Start Date: 11/15/2006	Project: **Site Investigation**	Page: 2 of 5
	Coordinates: X-610693.8 Y-683255.1	Depth of Boring: 35.00
End Date: 11/21/2006	Elevation: 12.6 ft NAVD88	Geologist: M. Merdinger
	Drill Subcontractor: ADI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
		FILL: Reddish Gray (10YR 5/1) silty SAND, coarse fill Sand, Fill material (slag, concrete), wet. No odor.	0.3 ppm		
		FILL: Dark Grayish Brown (10YR 4/2) SILT, little Clay, trace Gray rounded medium Gravel, wet. No odor.			
8		NR: No Recovery			
		FILL: Very Dark Gray (7.5YR 3/1) SILT, some coarse Sand, wet. No odor.	0.0 ppm		
		FILL: Dark Brown (7.5YR 3/2) SILT, trace to little Clay down gradient, oyster shell, moist, loose. No odor.		114-MW22BB (9.5-10.0)	MS/MSD, Cr+6, TAL Metals
10					
		FILL: Dark Brown (7.5YR 3/2) SILT, little Sand, trace to little Clay down gradient, oyster shell, moist, loose. No odor.	0.0 ppm		
12					
		FILL: Olive (5Y 4/3) SAND, little Silt, moist. No odor.			
		FILL: Olive Brown (2.5 Y 4/3) silty CLAY, trace fine Gravel, wet. No odor.	0.0 ppm	114-MW22BC (13.0-14.0)	Cr+6, TAL Metals
				114-MW22BCD (13.0-14.0)	Cr+6, TAL Metals
14					

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **114-MW22B**
	Site: Site 114	
Start Date: 11/15/2006	Project: **Site Investigation**	Page: 3 of 5
	Coordinates: X-610693.8 Y-683255.1	Depth of Boring: 35.00
End Date: 11/21/2006	Elevation: 12.6 ft NAVD88	Geologist: M. Merdinger
	Drill Subcontractor: ADI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
		FILL: Reddish Brown (5YR 4/4) very fine SAND, some Silt, Shale.	0.0 ppm		
		FILL: Dark Reddish Brown (2.5YR 3/4) fine to medium SAND, trace Silt, wet. No odor.			
16		FILL: Dark Reddish Brown (2.5YR 3/4) amd Yellow mottled silty SAND, some fine to medium Gravel, wet. No odor.			
		NR: No Recovery			
		FILL: Very Dark Gray (Gley N3/0) CLAY, medium stiff, moist.	0.0 ppm		
		FILL: Dusky Red (10R 3/4) silty SAND, some fine to coarse Gravel, Lime Green-stained CLAY interbedded, moist. No odor.		114-MW22BD (17.5-18.0)	Cr+6, TAL Metals
18					
		FILL: Olive Brown (2.5 Y 4/3) silty CLAY, moist. No odor.	0.0 ppm		
		FILL: Dusky Red (10R 3/2) CLAY, some Gravel, moist. No odor.			
20		FILL: Reddish Brown (5YR 4/3) SILT, little angular fine Gravel, moist. No odor.			
		NR: No Recovery			
		FILL: Olive Brown (2.5Y 4/3) silty CLAY, interbedded	0.0 ppm		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **114-MW22B**
	Site: Site 114	
Start Date: 11/15/2006	Project: **Site Investigation**	Page: 4 of 5
	Coordinates: X-610693.8 Y-683255.1	Depth of Boring: 35.00
End Date: 11/21/2006	Elevation: 12.6 ft NAVD88	Geologist: M. Merdinger
	Drill Subcontractor: ADI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
		Reddish Brown SILT at 22.2 feet, little rounded fine to medium Gravel, moist. No odor.			
22		SAND: Strong Brown (7.5YR 5/8) SAND, trace Silt, moist. No odor. (Native)		114-MW22BE (22.5-23.0)	Cr+6, TAL Metals
		SILT: Reddish Brown (5YR 4/4) SILT and fine to medium angular and rounded GRAVEL, trace Clay, wet. No odor.	0.0 ppm		
24		NR: No Recovery			
		SILT: Reddish Brown (5YR 4/4) SILT and fine to medium angular and rounded GRAVEL, trace Clay, wet. No odor.	0.2 ppm		
		CLAY: Reddish Brown (5YR 4/4) CLAY, little Silt, moist, medium stiff. No odor.		114-MW22BF (25.5-26.0)	Cr+6, TAL Metals
26		SAND: Reddish Brown (5YR 4/4) coarse SAND, some fine Gravel and Silt, wet. No odor.			
		SILT: Reddish Brown (5YR 4/4) SILT, moist. No odor.			
		NR: No Recovery	0.3 ppm		
		SAND: Reddish Brown (5YR 4/4) coarse SAND, some fine Gravel and Silt, moist. No odor.			
28		SILT: Reddish Brown (5YR 4/4) SILT, moist. No odor.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **114-MW22B**
	Site: Site 114	
Start Date: 11/15/2006	Project: **Site Investigation**	Page: 5 of 5
	Coordinates: X-610693.8 Y-683255.1	Depth of Boring: 35.00
End Date: 11/21/2006	Elevation: 12.6 ft NAVD88	Geologist: M. Merdinger
	Drill Subcontractor: ADI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
		NR: No Recovery			
		SILT: Reddish Brown (5YR 4/4) SILT, little Clay, trace fine Gravel, moist. No odor.	0.0 ppm	114-MW22BG (29.0-29.5)	MS/MSD, Cr+6, TAL Metals
30		NR: No Recovery			
		GRAVEL: Reddish Brown (5YR 4/4) GRAVEL, little Silt, wet. No odor.	0.2 ppm		
32		SILT AND GRAVEL: Reddish Brown (5YR 4/4) SILT and GRAVEL, trace Clay, wet. No odor.			
		NR: No Recovery			
34		SILTSTONE: Gray Rock, angular, trace Silt and coarse Sand, wet. No odor.			
		NULL: End of boring at 35 feet.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **135-B19**
	Site: Site 135	
Start Date: 12/13/2006	Project: **Site Investigation**	Page: 1 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 9.9 ft NAVD88	Geologist: P. Kelly, M. Merdinger
	Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: ASPHALT			
		FILL: Gray fine COBBLES.			
		FILL: Brown coarse SAND, some Silt and Clay, little fine Gravel.	0.0 ppm	135-B19A (1.3-1.8)	Cr+6, TAL Metals
2		FILL: Grey fine COBBLES	1.4 ppm	135-B19B (2.1-2.6)	Cr+6, TAL Metals
		FILL: Gray-Brown ASH, some fine Gravel, little woody organics. Heavy petroleum odor.			
		FILL: Red Brick pieces		135-B19C (3.3-3.8)	Cr+6, TAL Metals
4		FILL: Black-Gray ASH, some fine Gravel, little brick fragments.	0.0 ppm		
		FILL: Dark Grayish Brown, (2.5Y 4/2) SILT and ASH, Fill materials (shells, clinkers, wood particles), wet, loose. No odor.	0.0 ppm	135-B19D (5.1-5.6)	Cr+6, TAL Metals
6		FILL: Black and Dark Grayish Brown (2.5Y 4/2) SILTY CLAY, trace coarse Sand and Topsoil, moist, firm.	0.0 ppm		
		NR: No Recovery			
8		FILL: Dark Grayish Brown (10YR 4/2) SAND CLAY, little Silt, wet, semi-firm. No odor.	0.0 ppm		
		FILL: Black medium SANDY SILT, Fill material, little interbedded Clay, wet, loose. No odor.	0.0 ppm	135-B19E (9.4-9.9)	Cr+6, TAL Metals
10		FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, trace Clay, moist, semi-firm. No odor.	0.1 ppm		
		NR: No Recovery			

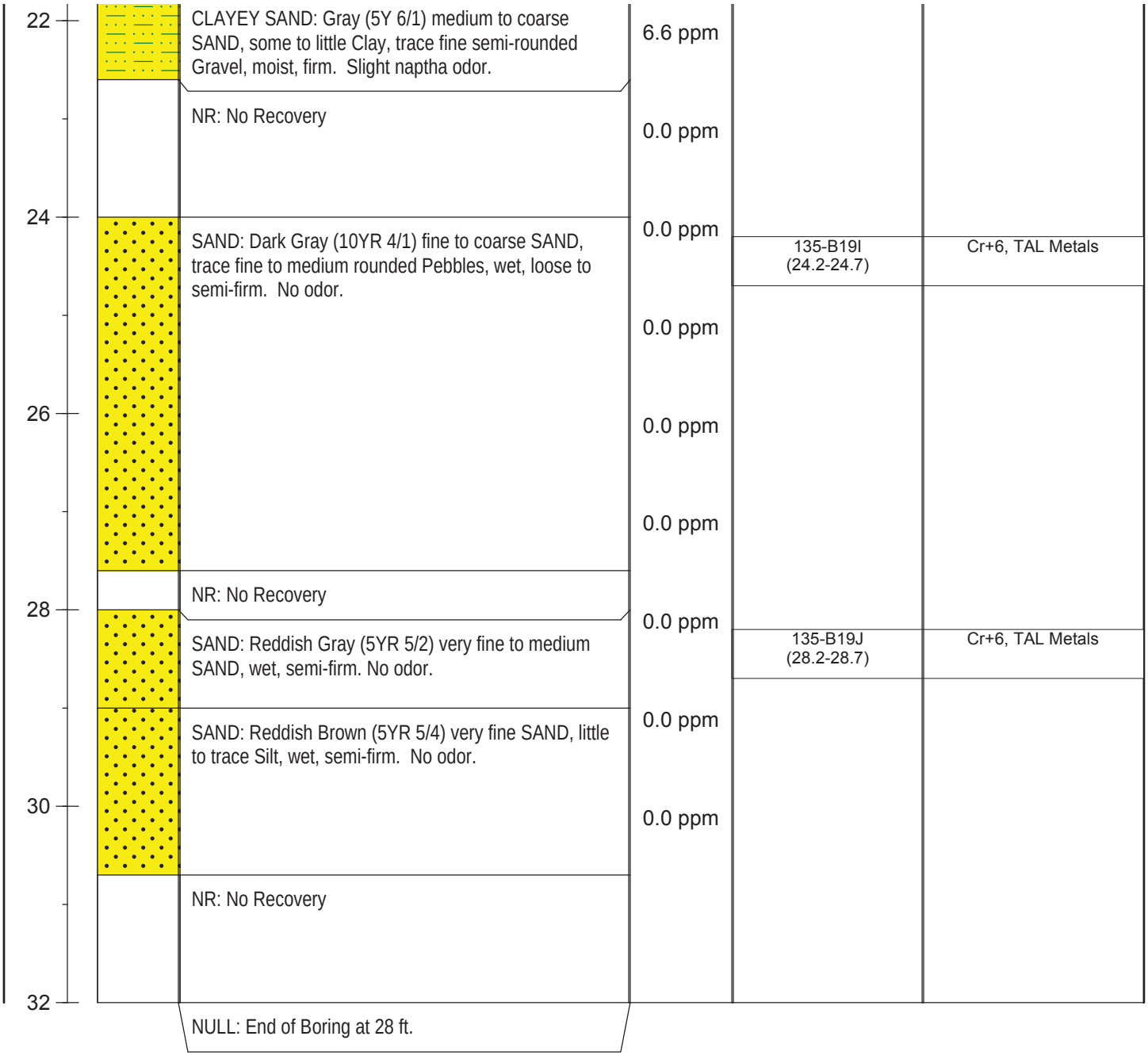
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: 135-B19
	Site: Site 135	
Start Date: 12/13/2006	Project: **Site Investigation**	Page: 2 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 9.9 ft NAVD88	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12		FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, trace Clay and fine semi-rounded Gravel, wet, loose.	0.0 ppm		
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	0.0 ppm	135-B19F (13.2-13.7)	MS/MSD, Cr+6, TAL Metals
14		NR: No Recovery	28.1 ppm		
16		PEAT: Dark Gray (Gley N4/0) organic CLAY, some organics, moist, firm. Sulfur odor.	34.8 ppm 30.0 ppm	135-B19G (17.2-18.2) 135-B19GD (17.2-18.2)	Cr+6, TAL Metals
18		SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor.	164.0 ppm 389.0 ppm		
		NR: No Recovery			
20		SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor.	54.0 ppm	135-B19H (20.2-20.7)	Cr+6, TAL Metals
		SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, trace Clay, moist, semi-firm (native). Slight sulfur odor.	2.1 ppm		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: 135-B19
	Site: Site 135	
Start Date: 12/13/2006	Project: **Site Investigation**	Page: 3 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 9.9 ft NAVD88	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller



Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **143-B5**
	Site: Site 143	
Start Date: 1/9/2007	Project: **Site Investigation**	Page: 1 of 3
	Coordinates: X-610774.0 Y-683208.0	Depth of Boring: 24.00
End Date: 1/11/2007	Elevation: 12.9 ft NAVD88	Geologist: P. Kelly
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters
0		ASPHALT: Asphalt			
		FILL: Black (5YR 2.5/1) fine SAND, some fine Gravel and Silt, little brick fragments and coarse Gravel, no odor	0.0 ppm	143-B5A (1.0-1.5)	Cr+6, TAL Metals
2		FILL: Dark Brown (7.5YR 2.5/1) coarse SAND, some fine Gravel, and little fine gravel sized COPR (10%), trace brick fragments, no odor	0.0 ppm	143-B5B (2.0-2.5)	Cr+6, TAL Metals
		FILL: White (7.5YR 8/1) SILT/CLAY, some black staining, no odor	0.0 ppm	143-B5C (2.9-3.4)	Cr+6, TAL Metals
4		FILL: Brown (7.5YR 4/3) CLAY, some silt, little fine to coarse Gravel and medium gravel sized Slag, black (10YR 2/1), no odor	0.0 ppm	143-B5D (3.5-4.1)	Cr+6, TAL Metals
		FILL: Cobbles			
		NR: No Sample			
6		FILL: Red-Brown (2.5YR 3/4) SILT/CLAY, some fine gravel, trace glass pieces, no odor	0.1 ppm	143-B5E (6.5-7.0)	Cr+6, TAL Metals
		NR: No Recovery			
8					

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **143-B5**
	Site: Site 143	
Start Date: 1/9/2007	Project: **Site Investigation**	Page: 2 of 3
	Coordinates: X-610774.0 Y-683208.0	Depth of Boring: 24.00
End Date: 1/11/2007	Elevation: 12.9 ft NAVD88	Geologist: P. Kelly
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters
		FILL: Red-Brown (2.5YR 3/4) SILT/CLAY, some fine gravel, trace glass pieces, no odor			
		FILL: Dark Brown (7.5YR 2.5/2) SILT, some fine Gravel, little woody organics, no odor	0.7 ppm	143-B5F (8.8-9.5)	Cr+6, TAL Metals
		FILL: White (5Y 8/1) SILT/CLAY, very soft, some Brown (5YR 2.5/1) Silt and fine Sand, no odor		143-B5G (9.5-9.9)	Cr+6, TAL Metals
10		FILL: Red-Black (2.5YR 2.5/1) coarse SAND, some Silt, little fine Gravel, trace glass fragments, no odor		143-B5H(9.9-10.6) 143-B5HD(9.9-10.6)	Cr+6, TAL Metals Cr+6, TAL Metals
		NR: No Recovery			
12		FILL: Red-Black (2.5YR 2.5/1) coarse SAND, some Silt, little fine Gravel, trace glass fragments, no odor			
		FILL: Dark Gray (N31 gley) SILT/Ash, some fine Gravel little debris, no odor	0.7 ppm	143-B5I (12.6-13.1)	Cr+6, TAL Metals
		PEAT: Meadow Mat, dark Brown (2.5YR 2.5/2) CLAY, with Organics, no odor		143-B5J (13.1-13.9)	Cr+6, TAL Metals
14			0.6 ppm		
		NR: No Recovery	0.4 ppm		
16		SILT AND CLAY: Green Gray (5BG 5/1) with little Dark			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR | AECOM	Client: PPG Industries	BORING ID: **143-B5**
	Site: Site 143	
Start Date: 1/9/2007	Project: **Site Investigation**	Page: 3 of 3
	Coordinates: X-610774.0 Y-683208.0	Depth of Boring: 24.00
End Date: 1/11/2007	Elevation: 12.9 ft NAVD88	Geologist: P. Kelly
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters
18		Rd (5YR 4/6) CLAY/SILT, little fine Sand, trace Dark Red (2.5YR 3/6) medium Gravel from 18.1' to 19.1', no odor	0.4 ppm	143-B5K (17.1-17.6)	Cr+6, TAL Metals
		NR: No Recovery	0.0 ppm		
20		SILT AND CLAY: Green Gray (5BG 5/1) with little Dark Rd (5YR 4/6) CLAY/SILT, little fine Sand, trace Dark Red (2.5YR 3/6) medium Gravel, no odor			
		SAND: Reddish Brown (2.5YR 4/6) coarse SAND, some fine to coarse Gravel, no odor	0.4 ppm		
22		NR: No Recovery			
24		NULL: End of Boring			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 143-DD1-B03

Project Name: PPG Garfield Ave	**Drilling Company:** SGS	
Project Number: 60237614.846GARF.A	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 683186
Date Started Drilling: 12/5/2011	**Rig Type:** 7728DT	**Coordinates (NJSPNAD83) y:** 610822
Date Finished Drilling: 12/5/2011	**Core Size:** 2.0 in	**Boring Total Depth:** 5 ft
Logged By: M. Merdinger	**Project Manager:** Robert Cataldo	**Depth to Water:** 1.5 ft
Physical Location: Site 143 - Back lot		**Surface Elevation:** 12.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	2.5	0.2	Dry	CONCRETE		Concrete, dry, no staining.	
			Moist	FILL		Black very fine to fine SAND, trace Fill (slag, cinders), loose. Slight oil odor.	DD1-B03-0.5
1		0.1					
			Wet	FILL		Black fine SAND and Coal fragments, little Ash and Cinders, loose. No odor.	DD1-B03-1.5
2							
				NR		No Recovery	
3							
4							
5						End of boring at 5 ft.	

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromite ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: Boring used to identify historic fill. No COPR/GGM identified in boring.

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 143-P3A-E15A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Soft Dig/Geoprobe	**Coordinates (NJSPNAD83) x:** 610815.7176
Date Started Drilling: 5/30/2013 8:10:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 683191.6387
Date Finished Drilling: 5/30/2013 8:40:00 AM	**Core Size:** 3 in	**Boring Total Depth:** 17 ft
Logged By: MI	**Project Manager:** Chris Martell	**Depth to Water:** NA
Physical Location: Site 143 - E15A		Surface Elevation: 12.67 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	1	0.0	dry	FILL		medium SAND, some coal, cinders, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	
1		0.0	dry	FILL		medium SAND, some coal, cinders, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	
2	2	0.0	dry	FILL		fine to medium SAND, little fine to coarse gravel little coal, (7.5YR 2.5/1) black, non plastic loose, slightly moist no odor no staining	143-P3A-E15A-2.0-2.5
3		0.0	dry	FILL		fine to medium SAND, some coal, cinders, little wood fragments, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	
4	1.4	0.0		NR		NO RECOVERY	143-P3A-E15A-4.0-4.5
		0.0	dry	FILL		SILT, with fine to medium sand some fine to medium gravel, (7.5YR 4/2) brown, low plasticity soft, slightly moist no odor no staining	143-P3A-E15A-4.0-4.5X
5		0.0	saturated	FILL		fine silty SAND, little fine to coarse gravel, trace coal, (7.5YR 3/3) dark brown, non plastic, soft, saturated, no odor, no staining.	143-P3A-E15A-5.0-5.5
6	1.2	0.0	moist	FILL		fine SAND, little fine to coarse gravel, little coal, (7.5YR 2.5/1) black, non plastic, loose, moist, no odor, no staining.	
		0.0	saturated	FILL		fine silty SAND, little fine to coarse gravel, trace coal, (7.5YR 3/3) dark brown, non plastic, soft, saturated, no odor, no staining.	143-P3A-E15A-7.0-7.5
7				NR		NO RECOVERY	
8	1.4	0.0	saturated	FILL		fine silty SAND, some fine to coarse gravel, little coal, (7.5YR 2.5/2) very dark brown, non plastic, soft, saturated, no odor, no staining.	143-P3A-E15A-9.0-9.5
		0.0	slightly moist	FILL		medium SAND, little fine to medium gravel, little brick, (5YR 3/2) dark reddish brown, non plastic, loose, slightly moist, no odor, no staining.	
9				NR		NO RECOVERY	
10	1.3	0.0	moist	FILL		fine to medium SAND, some ash, little coal,cinders,brick,wood fragments, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-E15A-11.0-11.5
11		0.0	moist	FILL		NO RECOVERY	
12	2	0.0	moist	FILL		fine to medium SAND, little fine gravel, trace coal, cinders, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
13		0.0	moist	FILL		fine SAND, some wood fragments, little silt, (7.5YR 3/4) dark brown, non plastic, loose to hard, moist, no odor, no staining.	143-P3A-E15A-13.0-13.5
14	2	0.0	moist	FILL		fine SAND, some fine to medium gravel, little silt, brick silt, (7.5YR 3/4) dark brown, non plastic, loose to hard, moist, no odor, no staining.	143-P3A-E15A-14.1-14.6
15		0.0	moist	OL		SILT, little fine sand, trace roots, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	143-P3A-E15A-14.6-15.1
		1.3	dry to sl. moist	PT		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
16	2	1.3	dry to sl. moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic stiff, dry to slightly moist, strong organic odor, no staining. Soils consistent with MM.	
17						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry to slightly moist, strong organic odor, no staining. Soils consistent with MM.	

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromite ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/20/16 16:20

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: CAR-PDI-AA19A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** direct push	**Coordinates (NJSPNAD83) x:** 611350.91
Date Started Drilling: 6/13/2016 8:30:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682789.21
Date Finished Drilling: 6/13/2016 9:30:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 20 ft
Logged By: ES	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Actual - CAR PDI		Surface Elevation: 12.92 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0		0.0		ASPHALT		Asphalt and gravel sub-base	
1	4.5		dry	FILL		ASH, some coal, trace glass, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	CAR-PDI-AA19A-0.5-1.0
2							CAR-PDI-AA19A-2.0-2.5
3			dry	FILL		fine to medium SAND, little to trace ash, trace coarse gravel, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining.	
4							CAR-PDI-AA19A-4.0-4.5
5				NR		NO RECOVERY	
5	3.5	0.0	wet	FILL		fine silty SAND, little fine gravel, trace ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, water at 5.0 feet.	
6			wet	FILL		ASH, some silt and fine sand, trace wood, (7.5YR 2.5/1) black, medium dense, wet, no odor, no staining.	CAR-PDI-AA19A-6.0-6.5
7			wet	FILL		fine silty SAND, fine little gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	
8							CAR-PDI-AA19A-8.0-8.5
9				NR		NO RECOVERY	
10	5	0.0	wet	FILL		fine silty SAND, little organics, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	CAR-PDI-AA19A-10.0-10.5
11							
12							CAR-PDI-AA19A-12.0-12.5
13							
14							CAR-PDI-AA19A-14.0-14.5
15							CAR-PDI-AA19A-14.7-15.2
15	5	0.0	wet	FILL		fine silty SAND, trace metal, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	CAR-PDI-AA19A-15.2-15.7
16			dry	PT		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, no odor, no staining. Soils consistent with MM.	
17			dry	OL		Organic SILT, 75% organic silt, 25% organic fibers, (7.5YR 4/3) brown, medium stiff, dry, no odor, no staining. Soils consistent with UNDorg.	
18							
19							
20			moist	SM		fine to medium silty SAND, (5Y 5/1) gray, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromite ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: CAR-PDI-DD21A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** direct push	**Coordinates (NJSPNAD83) x:** 611401.67
Date Started Drilling: 6/13/2016 10:45:00 AM	**Rig Type:**	**Coordinates (NJSPNAD83) y:** 682689.25
Date Finished Drilling: 6/13/2016 11:45:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 15 ft
Logged By: ES	**Project Manager:** Scott Mikaelian	**Depth to Water:** NA
Physical Location: Actual - CAR PDI		Surface Elevation: 10.66 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0		0.0		ASPHALT		Asphalt and gravel sub-base.	
1				CONCRETE		Concrete	
2	4.5		dry	FILL		fine to coarse SAND, little fine to medium gravel, trace ash, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining.	CAR-PDI-DD21A-1.5-2.0
3							
4			moist	FILL		fine silty SAND, little coal, trace ash, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	CAR-PDI-DD21A-3.5-4.0
5				NR		NO RECOVERY	
6	5	10.0	moist to wet	FILL		ASH, some fine gravel, little fine to medium sand, (5YR 2.5/1) black, loose, moist to wet, slight MGP-like odor, no staining, water at 6.0 feet.	CAR-PDI-DD21A-5.5-6.0
7			wet	FILL		fine to medium silty SAND, some fine gravel, little ash, trace wood, (5YR 2.5/1) black, medium dense, wet, strong MGP-like odor, product staining.	
8							CAR-PDI-DD21A-7.5-8.0
9							
10							CAR-PDI-DD21A-9.5-10.0
11	5	8.0	wet	FILL		SILT, little organics, (7.5YR 4/3) brown, soft, wet, strong MGP-like odor, product staining.	
12							CAR-PDI-DD21A-11.5-12.0
13			wet	FILL		fine silty SAND, little fine gravel, (5YR 4/4) reddish brown, medium dense, wet, slight MGP-like odor, no staining.	
14							CAR-PDI-DD21A-13.5-14.0
15			dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, no odor, no staining. Soils consistent with MM.	CAR-PDI-DD21A-14.0-14.5

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromite ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: EF-64

Project Name: PPG Soil RIWP	**Drilling Company:** SGS North America	
Project Number: 6015-4801	**Drilling Method:** Geoprobe	**Coordinates (NJSPNAD83) x:** 610816.628
Date Started Drilling: 6/2/2011	**Rig Type:** Airknife/Geoprobe	**Coordinates (NJSPNAD83) y:** 683186.312
Date Finished Drilling: 6/2/2011	**Core Size:** 12 in	**Boring Total Depth:** 15 ft
Logged By: A. Salazar, B.Daniels	**Project Manager:** Robert Cataldo	**Depth to Water:** 13.8
Physical Location: Site 143, back lot.		**Surface Elevation:** 12.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0			dry	ASPHALT		Black Asphalt	
1	5	0	wet	FILL		Black (10YR 2/1) fine to medium SAND, some fine to medium angular Gravel, trace Silt, Slag, loose, no odor, wet	
2		0					
3		0	wet	FILL		Black fine to medium sandy SILT, some fine to medium angular Gravel and Slag, loose wet, no odor	EF-B64-2.5
4		0	moist	FILL		Brown (7.5YR 4/4) sandy SILT, some Clay, trace fine angular Gravel, cohesive, no odor, moist	
5			moist	FILL		Brown (7.5YR 4/3) medium to fine silty SAND, some fine to medium angular Gravel, trace Clay, loose, moist, no odor.	
6	3.5	0	wet	FILL		Brown (7.5YR 4/3) fine SAND AND SILT, little fine to medium angular gravel, wet, no odor.	
7							
8							
9			wet	NR		No Recovery	
10		0	wet	FILL		Black (5YR 2.5/1) ASH AND CINDER FILL, wet, no odor	
11			wet	PT		Black PEAT	EF-B64-10.5
12	1		wet	NR		No Recovery	
13							
14							
15				NULL		End of Boring at 15 ft.	

Notes:
bgs - below surface grade
MM - meadow mat
COPR - chromate ore processing residue
GGM - green grey mud
UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits
MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments: No COPR/GGM identified at this location.

AECOM
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: P4-CC20A

Project Name: PPG Garfield Ave	**Drilling Company:** SGS North America	
Project Number: 60240739	**Drilling Method:** Direct Push	**Coordinates (NJSPNAD83) x:** 611391.808
Date Started Drilling: 12/11/2014 9:15:00 AM	**Rig Type:** Geoprobe	**Coordinates (NJSPNAD83) y:** 682734.17
Date Finished Drilling: 12/11/2014 10:15:00 AM	**Core Size:** 3.0 in	**Boring Total Depth:** 10 ft
Logged By: SP	**Project Manager:** Scott Mikaelian	**Depth to Water:** N/A
Physical Location: Carteret Avenue		Surface Elevation: 10.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0		0.0		ASPHALT		ASPHALT.	
1		0.0	slightly moist	FILL		fine SAND,(10YR 5/8) yellowish brown,loose to medium dense,slightly moist,no odor,no staining.	P4-CC20A-0.5-1.0
2	5						P4-CC20A-2.0-2.5
3		0.0	slightly moist	FILL		fine to coarse SAND,some ash,trace gravel,trace coal,(10YR 4/2) dark grayish brown,loose,slightly moist,no odor,no staining.	
4							P4-CC20A-4.0-4.5
5		0.0	slightly moist	FILL		fine to medium SAND,trace gravel,trace ash,(2.5YR 2.5/2) very dusky red,medium dense,slightly moist,no odor,no staining.	
6	5	0.0	saturated	FILL		fine to medium SAND,some gravel,trace ash,(2.5YR 2.5/2) very dusky red,loose,saturated,no odor,no staining.	P4-CC20A-6.0-6.5
7							
8							P4-CC20A-8.0-8.5
9							
10							

Comments: 1) Three attempts were made to obtain best recovery 2) No COPR or GGM present in any interval of this boring.

AECOM Notes: Ground surface elevation = 11.1 ft NAVD88

LOG OF SOIL BORING SB-52

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 12.22		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/22/06		DATE COMPLETED: 11/27/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26	UNDIST. N/A	CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST NA	COMPL. N/A	24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Western shoulder of Carteret Avenue, 88 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			southern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
Cleared via hand digging to 4'; ash material (AM), gravel, clinker material (CM)		0											
		1											
		2											
		3											
		4											
4.0-6.9 FILL: CM, trace ash, gravel				1	1.0	4	1311	0.0	0.0	1311	N/A	N/A	No odors or other evidence of contamination
		5				5		0.0	0.0				
						5							
						7							
		6											
				2	1.1	4	1313	0.0	0.0	1313	N/A	N/A	No odors or other evidence of contamination
		7				4		0.0	0.0				
6.9-8.0 Black fine SAND (SP) with silty clay, highly plastic						3		0.0	0.0				
						4							
		8											
8.0-8.8 Grayish brown SILTY CLAY (CL) with black mottling				3	1.0	4	1317	0.0	0.0	1317	N/A	N/A	No odors or other evidence of contamination
8.8-8.9 Reddish brown SILTY CLAY (CL)						2		0.0	0.0				
		9											
8.9-12.0 Disturbed PEAT (PT), with some reddish gray silty clay						2		0.0	0.0				
						2							
		10											

AECOM Note: Ground surface elevation = 11.1 ft NAVD88

LOG OF SOIL BORING SB-52

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 12.22		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/22/06		DATE COMPLETED: 11/27/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Western shoulder of Carteret Avenue, 88 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			southern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Depth (ft bgs)	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
8.9-12.0 Disturbed PEAT (PT), with some reddish gray silty clay	10	4	1.2	2	1329	0.0	0.0	1329	N/A	N/A	
				1		0.0	0.0				
	11			2		0.0	0.0				
				2							
12.0-16.0 Reddish brown SILT (ML) and silty clay, trace fine gravel	12	5	1.5	2	1338	0.0	0.0	1338	N/A	N/A	
				2		0.0	0.0				
	13			2		0.0	0.0				
				2							
	14	6	0.9	2	1339	0.0	0.0	1339	N/A	N/A	
				3		0.0	0.0				
	15			3							
				3							Drilling ended here 11-22-06
	16										
16.0-16.4 Very dark greenish gray (GLEY1 3/1 10Y) PEAT (PT)		7	1.2	1	0900	0.0	0.0	0900	N/A	N/A	Drilling resumed here 11-27-06
16.4-18.4 Very dark greenish gray (GLEY1 3/1 10Y) organic CLAY (OH), with 10% peat fragments				2		10.3	0.0				
	17			1		10.0	0.0				
				2							Anaerobic, swampy odors
	18										
18.4-20.0 Grey organic CLAY (OH), with less than 5% peat fibers		8	2.0	2	0905	26.3	0.0	0905	N/A	N/A	Anaerobic, swampy odors
				2		53.6	0.0				
	19			2		?	0.0				
				2		?	0.0				
	20										

AECOM Note: Ground surface elevation = 11.1 ft NAVD88

LOG OF SOIL BORING SB-52

PROJECT LOCATION: Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL): 12.22	PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel	DATE STARTED: 11/22/06	DATE COMPLETED: 11/27/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		COMPLETION DEPTH (FT BGS): 56	ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A	NO. SAMPLES: DIST. 26	UNDIST. N/A CORE N/A
CASING: N/A	N/A	WATER DEPTH: FIRST 4.8	COMPL. N/A 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A	BORING LOCATION: Western shoulder of Carteret Avenue, 88 ft SE from the	
SAMPLER: 2" diameter, 2' long split-spoon		southern corner of the Halladay Street / Carteret Avenue intersection.	
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"	INSPECTOR: Eric Gaulin	

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
20.0-20.8 Brown PEAT (PT)		20		9	1.8	2	0910	10.0	0.0	0910	N/A	N/A	Unidentifiable odors, strong, no staining visible
20.8-24.0 light gray, SILTY CLAY (CL)		21				2		5.2	0.0				Sample SB-52(21.0-21.5) collected at 0919 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
						3		98.8	0.0				
		22				3							
				10	1.3	3	0915	15	0.0	0915	N/A	N/A	
						5		20	0.0				
		23				6		14.3	0.0				
						6							
24.0-24.9 Grayish red fine to coarse SAND (SW), trace silt		24		11	2.0	4	0928	0.0	0.0	0928	N/A	N/A	
						5		0.0	0.0				
24.9-25.2 angular gravel/cobble fragments, 1/4" in diameter		25				7		0.0	0.0				
25.2-26.0 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace silt						7		0.0	0.0				
		26											
26.0-28.0 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace silt, with some fine (1/8") gravel layers up to 1" thick				12	1.2	6	0933	0.0	0.0	0933	N/A	N/A	
						7		0.0	0.0				
		27				7		0.0	0.0				
						7							
28.0-29.4 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace silt, with some fine (1/8") gravel layers up to 1" thick, and with some coarse sand		28		13	2.0	7	0942	0.0	0.0	0942	N/A	N/A	
						6		0.0	0.0				
29.4-30.0 Reddish brown (2.5YR4/4) fine SILTY SAND (SM)		29				7		0.0	0.0				
						6		0.0	0.0				
		30											

AECOM Note: Ground surface elevation = 11.1 ft NAVD88

LOG OF SOIL BORING SB-52

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 12.22		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/22/06		DATE COMPLETED: 11/27/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Western shoulder of Carteret Avenue, 88 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			southern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
30.0-34.0 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)		30		14	0.8	5	1003	0.0	0.1	1003	N/A	N/A	No odors, no sheen
						6		0.0	0.0				
		31				6							
						7							
		32		15	1.1	5	1012	0.0	0.0	1012	N/A	N/A	No odors, no sheen
						7		0.0	0.0				
		33				9		0.0	0.0				
						9							
34.0-44.0 Reddish brown (2.5YR5/4) fine SILTY SAND (SM)		34		16	1.1	4	1031	0.0	0.0	1031	N/A	N/A	Extremely faint naphthalene-like odors, no sheen, no staining, no product
						5		0.0	0.0				
		35				5		1.4	0.0				
						5							
		36		17	0.8	4	1033	1.9	0.0	1033	N/A	N/A	Sample SB-52(36.3-36.8) collected at 1039 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
						4		5.6	0.0				
		37				5							
						6							
		38		18	1.2	4	1043	3.3	0.0	1043	N/A	N/A	Extremely faint odors, unidentifiable, possibly naphthalene-like
						4		2.5	0.0				
		39				4		11.6	0.0				
						5							
		40											

AECOM Note: Ground surface elevation = 11.1 ft NAVD88

LOG OF SOIL BORING SB-52

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 12.22		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/22/06		DATE COMPLETED: 11/27/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26	UNDIST. N/A	CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8	COMPL. N/A	24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Western shoulder of Carteret Avenue, 88 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			southern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
34.0-44.0 Reddish brown (2.5YR5/4) fine SILTY SAND (SM)		40		19	1.0	3	1056	9.5	0.0	1056	N/A	N/A	Faint naphthalene-like odors, no sheen, no staining, no product at top of spoon; no odors noted from 40.5 down
						2		0.8	0.0				
		41				2							
						2							
		42		20	1.2	2	1100	11.5	0.0	1100	N/A	N/A	Dark layer observed at 42.9' in this spoon
						3		1.0	0.0				
		43				3		0.0	0.0				Sample SB-52(42.9-43.2) collected at 1100 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
						4							
44.0-48.8 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)		44		21	1.2	2	1115	0.0	0.0	1115	N/A	N/A	No odors noted in this spoon
						3		0.0	0.0				
		45				3		0.0	0.0				
						3							
		46		22	1.2	3	1117	0.0	0.0	1117	N/A	N/A	No odors noted in this spoon
						4		0.0	0.0				
		47				3		0.0	0.0				
						5							
48.8-50.6 Reddish brown (2.5YR5/4) fine SANDY SILT (ML), with silty clay		48		23	1.0	4	1129	0.0	0.0	1129	N/A	N/A	No odors noted in this spoon
						4		0.0	0.0				
		49				4							
						4							
		50											

AECOM Note: Ground surface elevation = 11.1 ft NAVD88

LOG OF SOIL BORING SB-52

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 12.22		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/22/06		DATE COMPLETED: 11/27/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Western shoulder of Carteret Avenue, 88 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			southern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
48.8-50.6 Reddish brown (2.5YR5/4) fine SANDY SILT (ML), with silty clay		50		24	1.2		1139	0.0	0.0	1139	N/A	N/A	No odors noted in this spoon
50.6-52.0 Reddish brown (2.5YR5/4) fine SILTY SAND (SM)		51						0.0	0.0				
		52											
52.0-55.2 dark reddish brown (2.5YR3/3) fine to medium SAND (SW), trace silt		53		25	1.7		1143	0.0	0.0	1143	N/A	N/A	No odors noted in this spoon
		54						0.0					
		55		26	1.2		1155	0.0	0.0	1155	N/A	N/A	Sample SB-54(55.5-56.0) collected at 1157 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
		56						0.0	0.0				
End of Boring at 56'		57						0.0	0.0				
		58											
		59											
		60											

AECOM Note: Ground surface elevation = 10.28 ft NAVD88

PSEG SC Former Halladay Street Gas Works | **SCHOOR DEPALMA**

Interim Data Submittal No.4 |

LOG OF SOIL BORING SB-54

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 11.40		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/27/06		DATE COMPLETED: 11/28/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Eastern shoulder of Carteret Avenue, 95 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			eastern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of brownish yellow (10YR6/8) fine to medium sand		0											
		1											
		2											
		3											
4.0-4.2 FILL: black fill, silt, wood		4		1	0.8	1	1455	0.0	0.0	1455	N/A	N/A	No odors or other evidence of contamination
4.2-6.0 FILL: white gray ash material (AM), clinker		4	▽			1		0.0	0.0				
		5				1							
		5				1							
6.0-6.9 Black fine SAND with silty clay, highly plastic (SP)		6		2	1.1	1	1457	0.0	0.0	1457	N/A	N/A	No odors or other evidence of contamination
6.9-8.4 Disturbed brownish peat (PT) and organic matter		7				1		0.0	0.0				
		7				1		0.0	0.0				
		8				1							
8.4-10.0 Reddish grayish SILTY SANDY CLAY (CL)		8		3	0.7	1	1503	0.0	0.0	1503	N/A	N/A	No odors or other evidence of contamination
		9				1		0.0	0.0				
		10				1							

AECOMA Note: Ground surface elevation = 10.28 ft NAVD88

LOG OF SOIL BORING SB-54

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 11.40		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/27/06		DATE COMPLETED: 11/28/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Eastern shoulder of Carteret Avenue, 95 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			eastern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
10.0-14.0 Reddish grayish SILTY SANDY CLAY (CL), disturbed, trace wood, trace fine gravel		10		4	1.0	2	1512	0.0	0.0	1512	N/A	N/A	Sample SB-54(10.0-10.5) collected at for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
						2		0.0	0.0				
		11				2							
						3							
		12		5	0.7	2	1512	0.0	0.0	1512	N/A	N/A	
						3		0.0	0.0				
		13				2							
						3							
14.0-20.7 Very dark greenish gray (GLEY1 3/1 10Y), organic CLAY (OH), less than 1% peat fibers		14		6	2.0	1	1525	3.7	0.0	1525	N/A	N/A	Anaerobic, swampy odors
						1		3.0	0.0				
		15				1		1.0					
						1		0.0					
		16		7	2.0	1	1526	1.0	0.0	1526	N/A	N/A	Anaerobic, swampy odors
						1		3.2	0.0				
		17				1		0.0	0.0				
						1		5.2	0.0				
		18		8	2.0	1	1533	8.1	0.0	1533	N/A	N/A	Anaerobic, swampy odors
						1		9.7	0.0				
		19				1		4.2	0.0				
						1		1.0	0.0				
		20											

AECOM Note: Ground surface elevation = 10.28 ft NAVD88

LOG OF SOIL BORING SB-54

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 11.40		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/27/06		DATE COMPLETED: 11/28/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Eastern shoulder of Carteret Avenue, 95 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			eastern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
14.0-20.7 Very dark greenish gray (GLEY1 3/1 10Y), organic CLAY (OH), less than 1% peat fibers		20		9	1.7	1	1541	3.3	0.0	1541	N/A	N/A	Anaerobic, swampy odors
						3		n/a	0.0				
		21				3		n/a	0.0				
20.7-24.8 Light gray fine SILTY SAND, 10% rounded gravel (SP)						4		4.4	0.0				
		22		10	1.6	4	1544	1.3	0.0	1544	N/A	N/A	
						5		4.0	0.0				
		23				5		0.0	0.0				
						5							Drilling ended here 11 27-06
		24		11	1.2	2	0835	0.0	0.0	0835	N/A	N/A	Drilling resumed here 11-28-06
24.8-26.0 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace silt						2		16.4	0.0				
		25				2		5.5	0.0				
						2							
		26		12	1.9	2	0843	12.7	0.0	0843	N/A	N/A	Extremely faint naphthalene-like odors, no sheen, no staining, no product
26.0-27.2 Greyish red fine to coarse SAND (SW), trace silt						3		21.1	0.0				
		27				2		8.6	0.0				
						2		11.4	0.0				
		28		13	1.6	2	0855	10.6	0.0	0855	N/A	N/A	Extremely faint naphthalene-like odors, no sheen, no staining, no product
27.2-32.6 Dark reddish gray (5YR4/2) fine to medium SAND (SW), trace silt						2		21.4	0.0				
		29				2		20.0	0.0				
						2							
		30											

AECOM Note: Ground surface elevation = 10.28 ft NAVD88

LOG OF SOIL BORING SB-54

PROJECT LOCATION: Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL): 11.40	PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel	DATE STARTED: 11/27/06	DATE COMPLETED: 11/28/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		COMPLETION DEPTH (FT BGS): 56	ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A	NO. SAMPLES: DIST. 26	UNDIST. N/A CORE N/A
CASING: N/A	N/A	WATER DEPTH: FIRST 4.8	COMPL. N/A 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A	BORING LOCATION: Eastern shoulder of Carteret Avenue, 95 ft SE from the	
SAMPLER: 2" diameter, 2' long split-spoon		eastern corner of the Halladay Street / Carteret Avenue intersection.	
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"	INSPECTOR: Eric Gaulin	

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
27.2-32.6 Dark reddish gray (5YR4/2) fine to medium SAND (SW), trace silt		30		14	1.0	2	0908	11.8	0.0	0908	N/A	N/A	Faint naphthalene-like odors, no sheen, no staining, no product
						1		20.3	0.0				
		31				2							
						2							
		32		15	1.6	2	0913	4.6	0.0	0913	N/A	N/A	Faint naphthalene-like odors, no sheen, no staining, no product
32.6-32.7 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)						3		7.9	0.0				
32.7-36.0 Reddish brown (2.5YR5/4) fine SILTY SAND (SM)		33				2		8.3	0.0				
						2		0.0	0.0				
		34		16	0.8	2	0922	3.2	0.0	0922	N/A	N/A	Faint naphthalene-like odors, no sheen, no staining, no product
						2		7.0	0.0				
		35				2							
						2							
		36											
36.0-38.0 Reddish brown (2.5YR5/4) fine SAND (SP), trace silt				17	1.2	2	0924	10.6	0.0	0924	N/A	N/A	Stronger naphthalene-like odors, no sheen, no staining, no product
						2		21.5	0.0				Sample SB-54(36.5-37.0) collected at 0928 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
		37				2		8.3	0.0				
						2							
38.0-42.0 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)		38		18	1.1	2	0933	10.2	0.0	0933	N/A	N/A	Naphthalene-like odors, no sheen, no staining, no product
						1		15.3	0.0				
		39				2		33.2	0.0				
						2							
		40											

AECOM Note: Ground surface elevation = 10.28 ft NAVD88

LOG OF SOIL BORING SB-54

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 11.40		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/27/06		DATE COMPLETED: 11/28/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Eastern shoulder of Carteret Avenue, 95 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			eastern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
38.0-42.0 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)		40		19	0.4	2	0955	0.3	0.0	0955	N/A	N/A	Faint naphthalene-like odors, no sheen, no staining, no product
						2							
		41				2							
						3							
		42											
42.0-42.6 Reddish brown (2.5YR5/4) fine SILTY SAND (SM)				20	1.4	2	1006	12.9	0.0	1006	N/A	N/A	Faint naphthalene-like odors, no sheen, no staining, no product
42.6-46.3 Reddish brown (2.5YR5/4) fine SANDY SILT (ML)						2		0.3	0.0				Sample SB-54(42.5-43.0) collected at 1100 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
		43				2		4.6	0.0				
						2							
		44											
				21	1.1	2	1036	0.0	0.0	1036	N/A	N/A	No odors this spoon
						2		0.0	0.0				
		45				2		0.0	0.0				
						3							
		46											
				22	0.8	2	1047	0.0	0.0	1047	N/A	N/A	No odors this spoon
46.3-48.0 Reddish brown (2.5YR5/4) SILTY CLAY (CL), trace fine sand						3		0.0	0.0				
		47				3		0.0	0.0				
						3							
		48											
				23	1.1	3	1100	0.0	0.0	1100	N/A	N/A	No odors his spoon
48.0-52.0 Reddish brown (2.5YR5/4) fine SAND (SP), trace silt						3		0.0	0.0				
		49				3		0.0	0.0				
						3							
		50											

AECOM Note: Ground surface elevation = 10.28 ft NAVD88

LOG OF SOIL BORING SB-54

PROJECT LOCATION: Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL): 11.40		PROJECT NUMBER: 020667601
DRILLING CONTRACTOR: Advanced Drilling, Inc.	FOREMAN: Roger Logel		DATE STARTED: 11/27/06		DATE COMPLETED: 11/28/06
DRILLING EQUIPMENT: GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS): 56		ROCK DEPTH (FT): not encountered
TYPE BIT: Hollow-stem auger	SIZE AND TYPE CORE BARREL: N/A		NO. SAMPLES: DIST. 26		UNDIST. N/A / CORE N/A
CASING: N/A	N/A		WATER DEPTH: FIRST 4.8		COMPL. N/A / 24HR N/A
CASING HAMMER: WEIGHT N/A	DROP: N/A		BORING LOCATION: Eastern shoulder of Carteret Avenue, 95 ft SE from the		
SAMPLER: 2" diameter, 2' long split-spoon			eastern corner of the Halladay Street / Carteret Avenue intersection.		
SAMPLER HAMMER: WEIGHT 140 lbs.	DROP: 30"		INSPECTOR: Eric Gaulin		

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Time Date	REMARKS
48.0-52.0 Reddish brown (2.5YR5/4) fine SAND (SP), trace silt		50		24	0.9	3	1123	0.0	0.0	1123	N/A	N/A	
		51				3		0.0	0.0				
						2							
						3							
52.0-56.0 Reddish brown (2.5YR5/4) fine to medium SAND (SW)		52		25	2.0	2	1125	0.0	0.0	1125	N/A	N/A	
		53				3		0.0	0.0				
						3		0.0					
		54				3		0.0					
				26	2.0	3	1127	0.0	0.0	1127	N/A	N/A	Sample SB-54(55.5-56.0) collected at 1127 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
		55				3		0.0	0.0				
						3		0.0	0.0				
		56				3		0.0	0.0				
End of Boring at 56'		57											
		58											
		59											
		60											

From:	Dixon, Cameron
To:	David Spader; Hannah Bartges
Cc:	Feinberg, Richard [C]; Overmyer, Jody; Paulsen, Sandy
Subject:	CAR-025: Carteret Avenue Non-Chrome Fill Soil Re-Use Analytical Results
Date:	Monday, August 26, 2019 2:00:50 PM
Attachments:	2019-08-21 Carteret Non-Cr Fill Reuse Data Package_PR.pdf

Dave –

Please find attached the analytical results for the Carteret Avenue non-chrome fill soil re-use samples that were collected in accordance with the technical memorandum entitled, *Carteret Avenue Non-Chrome Fill Soil Re-Use Plan (Revision 2)* (Soil Re-Use Plan). The Soil Re-Use Plan was issued on June 6, 2019 as Attachment F of the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).* The associated laboratory reports and data validation reports are being sent to you via SendFiles, due to their large file size. Samples included in the attached set of results were collected from Non-Chrome Fill Areas 1 through 4 (refer to Figure 1A of the Soil Re-Use Plan included in the attached data package).

Results were less than the applicable criteria, with the exception of benzo(a)pyrene. Benzo(a)pyrene concentrations in Non-Chrome Fill Areas 1 through 3, were greater than the New Jersey Department of Environmental Protection (NJDEP) Residential Direct Contact Soil Remediation Standard (RDCSRS) and Default Impact to Groundwater Soil Screening Level (DIGWSSL), but were less than the Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS), and were within ranges typically observed in historic fill (refer to Tables 1 through 4). Additionally, no evidence of manufactured gas plant (MGP) material was observed during excavation and the material has been characterized for disposal as non-hazardous (refer to Table 5). Therefore, it is our opinion that benzo(a)pyrene is not related to MGP operations. Based on these results, we have determined that the material is suitable for re-use within the Carteret Avenue excavation in accordance with the Soil Re-Use Plan.

Samples will be collected from Non-Chrome Fill Area 5 (refer to Figure 1B of the Soil Re-Use Plan included in the attached data package) once the excavation extends into that area, and the analytical results will be provided to you for review. A determination as to whether the material from Non-Chrome Fill Area 5 is suitable for re-use in accordance with the Soil Re-Use Plan will be made upon receipt of the associated analytical results.

Please let me know if you have any questions regarding the attached analytical results. We will be re-using this material as backfill starting this week.

Thanks,
Cameron

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Tables

Table 1
Hexavalent Chromium Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	
Non-Chrome Fill Area	**Location ID**	**Sample ID**	**Lab SDG**	**Lab Sample ID**	**Date Collected**	**Sample Type**	**Result**	**Qualifier**
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G1	JC91788R	JC91788-1R	07/17/2019	N	3.4	J-
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G2	JC91788	JC91788-2	07/17/2019	N	0.93	J-
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G3	JC91788R	JC91788-3R	07/17/2019	N	3.1	J-
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G4	JC91788	JC91788-4	07/17/2019	N	5.7	J-
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G5	JC91788R	JC91788-5R	07/17/2019	N	5.4	J-
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G1	JC91579R	JC91579-1R	07/12/2019	N	1.6	J-
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G2	JC91579R	JC91579-2R	07/12/2019	N	7.9	J-
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G3	JC91579R	JC91579-3R	07/12/2019	N	8.5	J-
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G4	JC91579R	JC91579-4R	07/12/2019	N	2.1	J-
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-S	JC92040R	JC92040-9R	07/22/2019	N	3.1	J-
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-SX	JC92040	JC92040-10	07/22/2019	FD	2.1	J-
Area 4	CAR-NONCR-1+70-2+00-S	CAR-NONCR-1+70-2+OO-S	JC92093	JC92093-2	07/23/2019	N	0.84	J-

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
CrSCC - NJDEP Interim Chromium Soil Cleanup Criterion
mg/kg - milligrams per kilogram
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group
"X" at the end of the Sample ID indicates field duplicate sample.

Sample Type -
FD - Indicates duplicate sample
N - Indicates normal original sample

Qualifiers -
J- - Indicates the result was an estimated value and may be biased low

Table 2
CCPW Metals Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte	ANTIMONY		CHROMIUM		NICKEL		THALLIUM		VANADIUM	
						CAS RN	7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
						Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
						RDCSRS	31		120000		1600		N/A		N/A	
						RDCSRS-GAG	N/A		N/A		N/A		N/A		390	
						NRDCSRS	450		N/A		23000		N/A		1100	
						DIGWSSL	N/A		N/A		N/A		3		N/A	
						IGWSRS-GAG	62.7		N/A		170		N/A		N/A	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G1	JC91788	JC91788-1	07/17/2019	N	< 2.3	UJ	66.5	J-	13.9		< 1.1	U	23.3	
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G2	JC91788	JC91788-2	07/17/2019	N	< 2.2	UJ	122	J-	11.3		< 1.1	U	22.5	
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G3	JC91788	JC91788-3	07/17/2019	N	< 2.1	UJ	65.2	J-	16.5		< 1.1	U	25.2	
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G4	JC91788	JC91788-4	07/17/2019	N	< 2.1	UJ	97.3	J-	12.3		< 1.1	U	21.3	
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G5	JC91788	JC91788-5	07/17/2019	N	< 2.2	UJ	48.1	J-	15.4		< 1.1	U	21.0	
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G1	JC91579	JC91579-1	07/12/2019	N	< 2.3	UJ	109		14.8		< 1.2	U	32.1	
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G2	JC91579	JC91579-2	07/12/2019	N	< 2.5	UJ	57.5		11.8		< 1.2	U	23.6	
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G3	JC91579	JC91579-3	07/12/2019	N	< 2.3	UJ	60.5		13.0		< 1.2	U	23.2	
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G4	JC91579	JC91579-4	07/12/2019	N	< 2.2	UJ	26.0		10.7		< 1.1	U	22.4	
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-S	JC92040	JC92040-9	07/22/2019	N	< 2.4	UJ	50.2		12.6		< 1.2	U	25.8	
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-SX	JC92040	JC92040-10	07/22/2019	FD	< 2.4	UJ	47.1		13.5		< 1.2	U	25.4	
Area 4	CAR-NONCR-1+70-2+00-S	CAR-NONCR-1+70-2+OO-S	JC92093	JC92093-2	07/23/2019	N	< 2.4	U	145		15.0		< 1.2	U	27.7	

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
DIGWSSL - NJDEP Default Impact to Groundwater Soil Screening Level
IGWSRS-GAG - NJDEP Impact to Groundwater Soil Remediation Standard-Garfield Avenue Group
mg/kg - milligrams per kilogram
N/A - not applicable
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - NJDEP Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
RDCSRS-GAG - NJDEP Residential Direct Contact Soil Remediation StandardResidential Direct Contact Soil Remediation Standard - Garfield Avenue Group (alternative remediation standard approved by the NJDEP on December 28, 2016)
SDG - Sample Delivery Group
"X" at the end of the Sample ID indicates field duplicate sample.

Sample Type -
FD - Indicates duplicate sample
N - Indicates normal original sample

Qualifiers -
J- -Indicates the result was an estimated value and may be biased low
U - Indicates that the analyte was not detected at the reported method detection limit
UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate

Table 3
SVOC Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte	2-METHYLNAPHTHALENE		BENZO(A)ANTHRACENE		BENZO(A)PYRENE		BENZO(B)FLUORANTHENE		DIBENZO(A,H)ANTHRACENE		INDENO(1,2,3-CD)PYRENE		NAPHTHALENE	
						CAS RN	91-57-6		56-55-3		50-32-8		205-99-2		53-70-3		193-39-5		91-20-3	
						Units	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
						RDCSRS	230000		5000		500		5000		500		5000		6000	
						NRDCSRS	2400000		17000		2000		17000		2000		17000		17000	
						DIGWSSL	8000		800		200		2000		800		7000		25000	
Non-Chrome Fill Area	**Location ID**	**Sample ID**	**Lab SDG**	**Lab Sample ID**	**Date Collected**	**Sample Type**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G1	JC91788	JC91788-1	07/17/2019	N	15.6	J	381		*386*		516		71.9		214		22.1	J
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G2	JC91788	JC91788-2	07/17/2019	N	31.4	J	646		***537***		681		88.0		285		54.9	
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G3	JC91788	JC91788-3	07/17/2019	N	30.5	J	602		***540***		688		98.9		308		44.3	
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G4	JC91788	JC91788-4	07/17/2019	N	11.4	J	505		*457*		532		80.1		239		19.2	J
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G5	JC91788	JC91788-5	07/17/2019	N	13.1	J	326		*318*		406		57.3		188		18.0	J
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G1	JC91579	JC91579-1	07/12/2019	N	30.5	J	441		*405*		497		71.7		217		57.1	
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G2	JC91579	JC91579-2	07/12/2019	N	10.1	J	153		154		173		27.3	J	76.4		19.6	J
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G3	JC91579	JC91579-3	07/12/2019	N	< 9.1	U	131		139		157		22.4	J	67.5		16.6	J
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G4	JC91579	JC91579-4	07/12/2019	N	35.4	J	283		*270*		308		38.6	J	138		69.8	
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-S	JC92040	JC92040-9	07/22/2019	N	37.8	J	791		***697***		765		104		456		103	
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-SX	JC92040	JC92040-10	07/22/2019	FD	37.9	J	780		***741***		792		114		447		125	
Area 4	CAR-NONCR-1+70-2+00-S	CAR-NONCR-1+70-2+OO-S	JC92093	JC92093-2	07/23/2019	N	36.4	J	230		*232*		278		40.8		124		64.0	

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
DIGWSSL - NJDEP Impact to Groundwater Soil Screening Level
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - NJDEP Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
SDG - Sample Delivery Group
SVOC - semi-volatile organic compounds
ug/kg - micrograms per kilogram
"X" at the end of the Sample ID indicates field duplicate sample.
Bold result indicates that the concentration is greater than the RDCSRS.
Italicized result indicates that the concentration is greater than the DIGWSSL.

Sample Type -
FD - Indicates duplicate sample
N - Indicates normal original sample

Qualifiers -
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample
U - Indicates that the analyte was not detected at the reported method detection limit

Table 4
VOC Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte	BENZENE	
						CAS RN	71-43-2	
						Units	ug/kg	
						RDCSRS	2000	
						NRDCSRS	5000	
						DIGWSSL	5	
Non-Chrome Fill Area	**Location ID**	**Sample ID**	**Lab SDG**	**Lab Sample ID**	**Date Collected**	**Sample Type**	**Result**	**Qualifier**
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G1	JC91788	JC91788-1	07/17/2019	N	< 0.51	U
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G2	JC91788	JC91788-2	07/17/2019	N	< 0.53	U
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G3	JC91788	JC91788-3	07/17/2019	N	< 0.58	U
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G4	JC91788	JC91788-4	07/17/2019	N	< 0.65	U
Areas 1 and 2	CAR-STOCKPILE-N-NONCR	CAR-STOCKPILE-N-NONCR-G5	JC91788	JC91788-5	07/17/2019	N	< 0.69	U
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G1	JC91579	JC91579-1	07/12/2019	N	< 0.77	U
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G2	JC91579	JC91579-2	07/12/2019	N	< 0.66	U
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G3	JC91579	JC91579-3	07/12/2019	N	< 0.61	U
Areas 1 and 2	CAR-STOCKPILE-S-NONCR	CAR-STOCKPILE-S-NONCR-G4	JC91579	JC91579-4	07/12/2019	N	< 0.56	U
Area 3	CAR-NONCR-1+50-1+70-S	CAR-NONCR-1+50-1+70-S	JC92040	JC92040-9	07/22/2019	N	< 0.52	U
Area 3	CAR-NONCR-1+50-1+70-SX	CAR-NONCR-1+50-1+70-SX	JC92040	JC92040-10	07/22/2019	FD	< 0.52	U
Area 4	CAR-NONCR-1+70-2+00-S	CAR-NONCR-1+70-2+OO-S	JC92093	JC92093-2	07/23/2019	N	< 0.49	U

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
DIGWSSL - NJDEP Default Impact to Groundwater Soil Screening Level
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - NJDEP Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
SDG - Sample Delivery Group
ug/kg - micrograms per kilogram
VOC - volatile organic compound
"X" at the end of the Sample ID indicates field duplicate sample.

Sample Type -
FD - Indicates duplicate sample
N - Indicates normal original sample

Qualifiers -
U - Indicates that the analyte was not detected at the reported method detection limit

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

							Herbicides				Metals											
						Analyte	2,4,5-TP (SILVEX)		2,4-D		ARSENIC		BARIUM		CADMIUM		CHROMIUM		LEAD		MERCURY	
						CAS RN	93-72-1		94-75-7		7440-38-2		7440-39-3		7440-43-9		7440-47-3		7439-92-1		7439-97-6	
						Units	mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C1	JC91788	JC91788-6A	7/17/2019	N	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U	< 0.050	U	0.50		< 0.00020	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C2	JC91788	JC91788-7A	7/17/2019	N	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U	< 0.050	U	< 0.50	U	< 0.00020	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1	JC91788	JC91788-8	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1X	JC91788	JC91788-16	7/17/2019	FD																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G2	JC91788	JC91788-9	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-C	JC91579	JC91579-5A	7/12/2019	N	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U	< 0.050	U	1.4		< 0.00020	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-13A	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-6	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC92093	JC92093-1	7/12/2019	N																
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-C	JC92040	JC92040-11A	7/22/2019	N	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U	< 0.050	U	1.2		< 0.00020	U
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-G1	JC92040	JC92040-12	7/22/2019	N																
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-C	JC92040	JC92040-1A	7/22/2019	N	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U	< 0.050	U	0.59		< 0.00020	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-CX	JC92040	JC92040-2A	7/22/2019	FD	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U	< 0.050	U	0.57		< 0.00020	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-G1	JC92040	JC92040-3	7/22/2019	N																

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

							Metals				Pesticides											
						Analyte	SELENIUM		SILVER		CHLORDANE		ENDRIN		GAMMA-BHC (LINDANE)		HEPTACHLOR		HEPTACHLOR EPOXIDE		METHOXYCHLOR	
						CAS RN	7782-49-2		7440-22-4		57-74-9		72-20-8		58-89-9		76-44-8		1024-57-3		72-43-5	
						Units	mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C1	JC91788	JC91788-6A	7/17/2019	N	< 0.50	U	< 0.050	U	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U	< 0.000045	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C2	JC91788	JC91788-7A	7/17/2019	N	< 0.50	U	< 0.050	U	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U	< 0.000045	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1	JC91788	JC91788-8	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1X	JC91788	JC91788-16	7/17/2019	FD																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G2	JC91788	JC91788-9	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-C	JC91579	JC91579-5A	7/12/2019	N	< 0.50	U	< 0.050	U	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U	< 0.000045	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-13A	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-6	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC92093	JC92093-1	7/12/2019	N																
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-C	JC92040	JC92040-11A	7/22/2019	N	< 0.50	U	< 0.050	U	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U	< 0.000045	U
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-G1	JC92040	JC92040-12	7/22/2019	N																
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-C	JC92040	JC92040-1A	7/22/2019	N	< 0.50	U	< 0.050	U	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U	< 0.000045	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-CX	JC92040	JC92040-2A	7/22/2019	FD	< 0.50	U	< 0.050	U	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U	< 0.000045	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-G1	JC92040	JC92040-3	7/22/2019	N																

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

							Pesticides		SVOCs													
						Analyte	TOXAPHENE		1,4-DICHLOROBENZENE		2,4,5-TRICHLOROPHENOL		2,4,6-TRICHLOROPHENOL		2,4-DINITROTOLUENE		2-METHYLPHENOL		3+4-METHYLPHENOL		EXACHLORO-1,3-BUTADIEN	
						CAS RN	8001-35-2		106-46-7		95-95-4		88-06-2		121-14-2		95-48-7		106-44-5		87-68-3	
						Units	mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C1	JC91788	JC91788-6A	7/17/2019	N	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U	< 0.0055	U	< 0.0089	U	< 0.0088	U	< 0.0049	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C2	JC91788	JC91788-7A	7/17/2019	N	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U	< 0.0055	U	< 0.0089	U	< 0.0088	U	< 0.0049	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1	JC91788	JC91788-8	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1X	JC91788	JC91788-16	7/17/2019	FD																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G2	JC91788	JC91788-9	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-C	JC91579	JC91579-5A	7/12/2019	N	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U	< 0.0055	U	< 0.0089	U	< 0.0088	U	< 0.0049	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-13A	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-6	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC92093	JC92093-1	7/12/2019	N																
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-C	JC92040	JC92040-11A	7/22/2019	N	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U	< 0.0055	U	< 0.0089	U	0.0226		< 0.0049	U
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-G1	JC92040	JC92040-12	7/22/2019	N																
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-C	JC92040	JC92040-1A	7/22/2019	N	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U	< 0.0055	U	< 0.0089	U	< 0.0088	U	< 0.0049	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-CX	JC92040	JC92040-2A	7/22/2019	FD	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U	< 0.0055	U	< 0.0089	U	< 0.0088	U	< 0.0049	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-G1	JC92040	JC92040-3	7/22/2019	N																

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

							SVOCs										VOCs					
						Analyte	HEXACHLOROBENZENE		HEXACHLOROETHANE		NITROBENZENE		PENTACHLOROPHENOL		PYRIDINE		1,1-DICHLOROETHYLENE		1,2-DICHLOROETHANE		1,4-DICHLOROBENZENE	
						CAS RN	118-74-1		67-72-1		98-95-3		87-86-5		110-86-1		75-35-4		107-06-2		106-46-7	
						Units	mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C1	JC91788	JC91788-6A	7/17/2019	N	< 0.0033	U	< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U						
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C2	JC91788	JC91788-7A	7/17/2019	N	< 0.0033	U	< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U						
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1	JC91788	JC91788-8	7/17/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1X	JC91788	JC91788-16	7/17/2019	FD											< 0.0030	U	< 0.0030	U	< 0.0025	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G2	JC91788	JC91788-9	7/17/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-C	JC91579	JC91579-5A	7/12/2019	N	< 0.0033	U	< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U						
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-13A	7/12/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-6	7/12/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC92093	JC92093-1	7/12/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-C	JC92040	JC92040-11A	7/22/2019	N	< 0.0033	U	< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U						
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-G1	JC92040	JC92040-12	7/22/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-C	JC92040	JC92040-1A	7/22/2019	N	< 0.0033	U	< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U						
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-CX	JC92040	JC92040-2A	7/22/2019	FD	< 0.0033	U	< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U						
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-G1	JC92040	JC92040-3	7/22/2019	N											< 0.0030	U	< 0.0030	U	< 0.0025	U

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

							VOCs															
						Analyte	2-BUTANONE (MEK)		BENZENE		CARBON TETRACHLORIDE		CHLOROBENZENE		CHLOROFORM		TETRACHLOROETHENE		TRICHLOROETHYLENE		VINYL CHLORIDE	
						CAS RN	78-93-3		71-43-2		56-23-5		108-90-7		67-66-3		127-18-4		79-01-6		75-01-4	
						Units	mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l		mg/l	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C1	JC91788	JC91788-6A	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-C2	JC91788	JC91788-7A	7/17/2019	N																
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1	JC91788	JC91788-8	7/17/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G1X	JC91788	JC91788-16	7/17/2019	FD	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Areas 1 and 2	CAR-STOCKPILE-N-WC	CAR-STOCKPILE-N-WC-G2	JC91788	JC91788-9	7/17/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-C	JC91579	JC91579-5A	7/12/2019	N																
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-13A	7/12/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC91579	JC91579-6	7/12/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Areas 1 and 2	CAR-STOCKPILE-S-WC	CAR-STOCKPILE-S-WC-G1	JC92093	JC92093-1	7/12/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-C	JC92040	JC92040-11A	7/22/2019	N																
Area 3	CAR-WC-0+90-1+50-S	CAR-WC-0+90-1+50-S-G1	JC92040	JC92040-12	7/22/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-C	JC92040	JC92040-1A	7/22/2019	N																
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-CX	JC92040	JC92040-2A	7/22/2019	FD																
Area 4	CAR-WC-1+50-2+10-S	CAR-WC-1+50-2+10-S-G1	JC92040	JC92040-3	7/22/2019	N	< 0.034	U	< 0.0021	U	< 0.0028	U	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
mg/l - milligrams per liter
SDG - Sample Delivery Group
SVOCs - semi-volatile organic comounds
TCLP - toxicity characteristic leaching procedure
VOCs - volatile organic compounds
"X" at the end of the Sample ID indicates field duplicate sample.

Sample Type -
FD - Indicates duplicate sample
N - Indicates normal original sample

Qualifiers -
U - Indicates that the analyte was not detected at the reported method detection limit

Figures 1A and 1B from Soil Re-Use Plan

SITE 114

AREA 1: 900 CY

EL. 11.1
SEE NOTE 1

EL. 7
SEE NOTE 1

EL. 9.8
SEE
NOTE 1

EL. 8
SEE NOTE 1

AREA 2: 600 CY

AREA 3: 200 CY

AREA 4: 200 CY

CARTERET AVENUE

GARFIELD AVENUE

Approx. 2' BGS

Approx. 3' BGS

REFER TO FIGURE 1B

MATCHLINE

SITE 143

SITE 132

SITE 137A

LEGEND

- PROPERTY LINE
- FENCE
- EXISTING SHEET PILE
- CURB
- DEPRESSED CURB
- EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- UTILITY POLE
- GAS VALVE
- CATCH BASIN INLET
- COMBINED SEWER MANHOLE
- FIRE HYDRANT
- GAS UTILITY LINE
- OVERHEAD ELECTRIC UTILITY LINE
- COMMUNICATION LINE–NOT SURVEYED
- WATER UTILITY LINE
- SEWER UTILITY LINE
- UNDERGROUND ELECTRIC UTILITY LINE
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- APPROXIMATE LOCATION OF FORMER MORRIS CANAL
- NON–CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- 13B–J BORING/MONITORING WELL/TEST PIT/POST–EXCAVATION SAMPLE LOCATION WITH NON–CCPW DATA

NOTES:

1. NON–CHROME FILL MATERIAL TO BE REMOVED FROM ELEVATION SHOWN TO THE BOTTOM OF EXCAVATION AND STOCKPILED FOR RE–USE.

2. CCPW DATA INCLUDES HEXAVALENT CHROMIUM AND CCPW–RELATED METALS (ANTIMONY, CHROMIUM, NICKEL, THALLIUM, VANADIUM)

3. ELEVATIONS SHOWN IN FT NAVD88

CCPW	CHROMATE CHEMICAL PRODUCTION WASTE
CY	CUBIC YARD
EL.	ELEVATION
FT	FEET
NAVD88	NORTH AMERICAN DATUM OF 1988

NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83

NORTH

10 0 20
GRAPHIC SCALE IN FEET

AECOM

PPG
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

DATE: 05/22/2019 | DRWN: ASK

NON-CHROME FILL EXCAVATION AREAS
PLAN VIEW
CARTERET AVENUE

FIGURE 1A

LEGEND

- PROPERTY LINE
- FENCE
- EXISTING SHEET PILE
- CURB
- DEPRESSED CURB
- EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- COMBINED SEWER MANHOLE
- GAS VALVE
- WATER VALVE
- CATCH BASIN INLET
- GAS UTILITY LINE
- WATER UTILITY LINE
- 48" STEEL COMBINED SEWER (APPROXIMATE)
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- NON-CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- 13B-J BORING/MONITORING WELL/TEST PIT/POST-EXCAVATION SAMPLE LOCATION WITH NON-CCPW DATA

NOTES:

1. NON-CHROME FILL MATERIAL TO BE REMOVED FROM ELEVATION SHOWN TO THE BOTTOM OF EXCAVATION AND STOCKPILED FOR RE-USE.

2. CCPW DATA INCLUDES HEXAVALENT CHROMIUM AND CCPW-RELATED METALS (ANTIMONY, CHROMIUM, NICKEL, THALLIUM, VANADIUM)

CCPW CHROMATE CHEMICAL PRODUCTION WASTE
CY CUBIC YARD
EL. ELEVATION

REFER TO FIGURE 1A

MATCHLINE

SITE 137A

SITE 114

HALSTED

SITE 133E

SITE 135

HALLADAY STREET

CARTERET AVENUE

GENERATORS

LOADING DOCK

AREA 5: 400 CY

EL. 6.4
SEE NOTE 1

101
PACIFIC
AVENUE

NORTH
NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83

10 0 20
GRAPHIC SCALE IN FEET

AECOM

PPG GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY			**NON-CHROME FILL EXCAVATION AREAS PLAN VIEW CARTERET AVENUE**
DATE: 05/30/2019	DRWN: ASK		**FIGURE 1B**

File: P:\Jobs\Prem_Eng\Project Files\PPG Industries\Garfield Avenue\103E Design\CAD\GIS\Cartaret Cross Sections\Plan View-Cx Cross Sections\2019-03-26 Cartaret Remediation Plan View Cx® Data.dwg Layout: FIGURE 1B User: antonns Plotted: May 30, 2019 - 1:41pm Xref:

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To	David Spader, ERFS Nick Strasser, City of Jersey City
CC	Jody Overmyer, PPG Rich Feinberg, PPG Cameron Dixon, AECOM
Subject	Analytical Results for Carteret Avenue Non-Chrome Fill Soil Re-Use Samples – Non-Chrome Fill Area 5
From	Sandy Paulsen
Date	December 16, 2019

AECOM has prepared this technical memorandum on behalf of PPG to provide the analytical results for the Carteret Avenue non-chrome fill soil re-use samples that were collected in accordance with the technical memorandum entitled, *Carteret Avenue Non-Chrome Fill Soil Re-Use Plan (Revision 2)* (Soil Re-Use Plan). The Soil Re-Use Plan was issued on June 6, 2019 as Attachment F of the *Final Remedial Action Work Plan (Soil) – Carteret Avenue (Revision 1).* The associated laboratory reports and data validation reports are being sent to you via SendFiles, due to their large file size. Samples included in the attached set of results were collected from Non-Chrome Fill Area 5 (refer to **Figure 1A** of the Soil Re-Use Plan included in the attached data package).

Sample concentrations were less than the applicable criteria, with the exception of benzo(a)pyrene. Benzo(a)pyrene concentrations in Non-Chrome Fill Area 5 were greater than the New Jersey Department of Environmental Protection (NJDEP) Residential Direct Contact Soil Remediation Standard (RDCSRS) and Default Impact to Groundwater Soil Screening Level (DIGWSSL) but were less than the Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS); the concentrations (refer to **Tables 1** through **4**) were within ranges typically observed in historic fill. Additionally, no evidence of manufactured gas plant (MGP) material was observed during excavation activities and the material has been determined to be non-hazardous for disposal purposes (toxicity characteristic leaching procedure [TCLP] data is provided on Table 5 for information purposes). Therefore, it is our opinion that benzo(a)pyrene is not related to MGP operations. Based on these results, we have determined that the material is suitable for re-use within the Carteret Avenue excavation in accordance with the Soil Re-Use Plan.

Attachments:
Table
Figures 1A and 1B from Soil Re-Use Plan
Laboratory Analytical Report *(provided separately)*
Data Validation Report *(provided separately)*

Tables

Table 1
Hexavalent Chromium Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte CAS RN Units CrSCC	CHROMIUM (HEXAVALENT) 18540-29-9 mg/kg 20	
Non-Chrome Fill Area	**Location ID**	**Sample ID**	**Lab SDG**	**Lab Sample ID**	**Date Collected**	**Sample Type**	**Result**	**Qualifier**
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G1	JC97964	JC97964-1R	Cr6	N	1.2	J
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G2	JC97964	JC97964-2	11/5/2019	N	0.41	UJ

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
CrSCC - NJDEP Interim Chromium Soil Cleanup Criterion
mg/kg - milligrams per kilogram
NJDEP - New Jersey Department of Environmental Protection
SDG - Sample Delivery Group

Sample Type -
N - Indicates normal original sample

Qualifiers -
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample
UJ - Indicates the analyte was not detected above the reporting limit and the reporting limit was approximate

Table 2
CCPW Metals Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte	ANTIMONY		CHROMIUM		NICKEL		THALLIUM		VANADIUM	
						CAS RN	7440-36-0		7440-47-3		7440-02-0		7440-28-0		7440-62-2	
						Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
						RDCSRS	31		120000		1600		N/A		N/A	
						RDCSRS-GAG	N/A		N/A		N/A		N/A		390	
						NRDCSRS	450		N/A		23000		N/A		1100	
						DIGWSSL	N/A		N/A		N/A		3		N/A	
						IGWSRS-GAG	62.7		N/A		170		N/A		N/A	
Non-Chrome Fill Area	**Location ID**	**Sample ID**	**Lab SDG**	**Lab Sample ID**	**Date Collected**	**Sample Type**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G1	JC97964	JC97964-1	11/5/2019	N	1.1	U	1300		26.7		1.6	U	41.9	
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G2	JC97964	JC97964-2	11/5/2019	N	0.55	U	996		23.1		0.78	U	43.6	

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
DIGWSSL - NJDEP Default Impact to Groundwater Soil Screening Level
IGWSRS-GAG - NJDEP Impact to Groundwater Soil Remediation Standard-Garfield Avenue Group
mg/kg - milligrams per kilogram
N/A - not applicable
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - NJDEP Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
RDCSRS-GAG - NJDEP Residential Direct Contact Soil Remediation StandardResidential Direct Contact Soil Remediation Standard - Garfield Avenue Group (alternative remediation standard approved by the NJDEP on December 28, 2016)
SDG - Sample Delivery Group

Sample Type -
N - Indicates normal original sample

Qualifiers -
U - Indicates that the analyte was not detected at the reported method detection limit

Table 3
SVOC Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte	2-METHYLNAPHTHALENE		BENZO(A)ANTHRACENE		BENZO(A)PYRENE		BENZO(B)FLUORANTHENE		DIBENZO(A,H)ANTHRACENE		INDENO(1,2,3-CD)PYRENE		NAPHTHALENE	
						CAS RN	91-57-6		56-55-3		50-32-8		205-99-2		53-70-3		193-39-5		91-20-3	
						Units	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
						RDCSRS	230000		5000		500		5000		500		5000		6000	
						NRDCSRS	2400000		17000		2000		17000		2000		17000		17000	
						DIGWSSL	8000		800		200		2000		800		7000		25000	
Non-Chrome Fill Area	Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Sample Type	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G1	JC97964	JC97964-1	11/5/2019	N	37.3	J	710		***665***		584		87.6		365		52.5	
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G2	JC97964	JC97964-2	11/5/2019	N	52.8		867		***832***		1020		138		582		71.8	

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
DIGWSSL - NJDEP Default Impact to Groundwater Soil Screening Level
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - NJDEP Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
SDG - Sample Delivery Group
SVOC - semi-volatile organic compounds
ug/kg - micrograms per kilogram
Bold result indicates that the concentration is greater than the RDCSRS.
Italicized result indicates that the concentration is greater than the DIGWSSL.

Sample Type -
N - Indicates normal original sample

Qualifiers -
J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample

Table 4
VOC Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						Analyte	BENZENE	
						CAS RN	71-43-2	
						Units	ug/kg	
						RDCSRS	2000	
						NRDCSRS	5000	
						DIGWSSL	5	
Non-Chrome Fill Area	**Location ID**	**Sample ID**	**Lab SDG**	**Lab Sample ID**	**Date Collected**	**Sample Type**	**Result**	**Qualifier**
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G1	JC97964	JC97964-1	11/5/2019	N	0.7	U
Area 5	CAR-NONCR-8+30-9+24-N	CAR-NONCR-8+30-9+24-N-G2	JC97964	JC97964-2	11/5/2019	N	0.6	U

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
DIGWSSL - NJDEP Default Impact to Groundwater Soil Screening Level
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - NJDEP Non-Residential Direct Contact Soil Remediation Standard
RDCSRS - NJDEP Residential Direct Contact Soil Remediation Standard
SDG - Sample Delivery Group
ug/kg - micrograms per kilogram
VOC - volatile organic compound

Sample Type -
N - Indicates normal original sample

Qualifiers -
U - Indicates that the analyte was not detected at the reported method detection limit

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					Herbicides				Metals					
				Analyte	2,4,5-TP (SILVEX)		2,4-D		ARSENIC		BARIUM		CADMIUM	
				CAS RN	93-72-1		94-75-7		7440-38-2		7440-39-3		7440-43-9	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019	< 0.00025	U	< 0.0012	U	< 0.50	U	< 1.0	U	< 0.020	U
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019										

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					Metals									
				Analyte	CHROMIUM		LEAD		MERCURY		SELENIUM		SILVER	
				CAS RN	7440-47-3		7439-92-1		7439-97-6		7782-49-2		7440-22-4	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019	< 0.050	U	< 0.50	U	< 0.00020	U	< 0.50	U	< 0.050	U
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019										

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					Pesticides									
				Analyte	CHLORDANE		ENDRIN		GAMMA-BHC (LINDANE)		HEPTACHLOR		HEPTACHLOR EPOXIDE	
				CAS RN	57-74-9		72-20-8		58-89-9		76-44-8		1024-57-3	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019	< 0.0014	U	< 0.000040	U	< 0.000040	U	< 0.000030	U	< 0.000040	U
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019										

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					Pesticides				SVOC					
				Analyte	METHOXYCHLOR		TOXAPHENE		1,4-DICHLOROBENZENE		2,4,5-TRICHLOROPHENOL		2,4,6-TRICHLOROPHENOL	
				CAS RN	72-43-5		8001-35-2		106-46-7		95-95-4		88-06-2	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019	< 0.000045	U	< 0.0011	U	< 0.0017	U	< 0.013	U	< 0.0092	U
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019										

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					SVOC									
				Analyte	2,4-DINITROTOLUENE		2-METHYLPHENOL		3+4-METHYLPHENOL		HEXACHLORO-1,3-BUTADIENE		HEXACHLOROBENZENE	
				CAS RN	121-14-2		95-48-7		106-44-5		87-68-3		118-74-1	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019	< 0.0055	U	< 0.0089	U	< 0.0088	U	< 0.0049	U	< 0.0033	U
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019										

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

						SVOC								VOC	
					Analyte	HEXACHLOROETHANE		NITROBENZENE		PENTACHLOROPHENOL		PYRIDINE		1,1-DICHLOROETHYLENE	
					CAS RN	67-72-1		98-95-3		87-86-5		110-86-1		75-35-4	
					Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019		< 0.0039	U	< 0.0064	U	< 0.014	U	< 0.0039	U		
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019										< 0.0030	U

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					VOC									
				Analyte	1,2-DICHLOROETHANE		1,4-DICHLOROBENZENE		2-BUTANONE (MEK)		BENZENE		CARBON TETRACHLORIDE	
				CAS RN	107-06-2		106-46-7		78-93-3		71-43-2		56-23-5	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019										
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019	< 0.0030	U	< 0.0025	U	< 0.034	U	0.0032		< 0.0028	U

Notes on last page

Table 5
Waste Characterization - TCLP Analytical Results - Stockpiles
Non-Chrome Fill Soil Re-Use Areas
Carteret Avenue
PPG, Jersey City, New Jersey

					VOC									
				Analyte	CHLOROBENZENE		CHLOROFORM		TETRACHLOROETHENE		TRICHLOROETHYLENE		VINYL CHLORIDE	
				CAS RN	108-90-7		67-66-3		127-18-4		79-01-6		75-01-4	
				Units	mg/l		mg/l		mg/l		mg/l		mg/l	
Location ID	Sample ID	Lab SDG	Lab Sample ID	Date Collected	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-C	JC93485	JC93485-61A	8/18/2019										
CAR-WC-8+30-9+24-N	CAR-WC-8+30-9+24-N-4.0-8.0-G1	JC93485	JC93485-62	8/18/2019	< 0.0028	U	< 0.0025	U	< 0.0045	U	< 0.0026	U	< 0.0039	U

Notes:

Definitions -
CAS RN - Chemical Abstracts Service Registry Number
mg/l - milligrams per liter
SDG - Sample Delivery Group
SVOC - semi-volatile organic compound
TCLP - toxicity characteristic leaching procedure
VOC - volatile organic compound

Qualifier-
U - Indicates that the analyte was not detected at the reported method detection limit

Figures 1A and 1B from Soil Re-Use Plan

SITE 114

AREA 1: 900 CY

EL. 11.1
SEE NOTE 1

EL. 7
SEE NOTE 1

EL. 9.8
SEE
NOTE 1

EL. 8
SEE NOTE 1

AREA 2: 600 CY

AREA 3: 200 CY

AREA 4: 200 CY

CARTERET AVENUE

GARFIELD AVENUE

Approx. 2' BGS

Approx. 3' BGS

REFER TO FIGURE 1B

MATCHLINE

SITE 143

SITE 132

SITE 137A

LEGEND

- PROPERTY LINE
- FENCE
- EXISTING SHEET PILE
- CURB
- DEPRESSED CURB
- EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- UTILITY POLE
- GAS VALVE
- CATCH BASIN INLET
- COMBINED SEWER MANHOLE
- FIRE HYDRANT
- GAS UTILITY LINE
- OVERHEAD ELECTRIC UTILITY LINE
- COMMUNICATION LINE–NOT SURVEYED
- WATER UTILITY LINE
- SEWER UTILITY LINE
- UNDERGROUND ELECTRIC UTILITY LINE
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- APPROXIMATE LOCATION OF FORMER MORRIS CANAL
- NON–CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- 13B–J BORING/MONITORING WELL/TEST PIT/POST–EXCAVATION SAMPLE LOCATION WITH NON–CCPW DATA

NOTES:

1. NON–CHROME FILL MATERIAL TO BE REMOVED FROM ELEVATION SHOWN TO THE BOTTOM OF EXCAVATION AND STOCKPILED FOR RE–USE.

2. CCPW DATA INCLUDES HEXAVALENT CHROMIUM AND CCPW–RELATED METALS (ANTIMONY, CHROMIUM, NICKEL, THALLIUM, VANADIUM)

3. ELEVATIONS SHOWN IN FT NAVD88

CCPW	CHROMATE CHEMICAL PRODUCTION WASTE
CY	CUBIC YARD
EL.	ELEVATION
FT	FEET
NAVD88	NORTH AMERICAN DATUM OF 1988

NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83

NORTH

10 0 20
GRAPHIC SCALE IN FEET

AECOM

PPG
GARFIELD AVENUE GROUP
JERSEY CITY, NEW JERSEY

DATE: 05/22/2019 | DRWN: ASK

NON-CHROME FILL EXCAVATION AREAS
PLAN VIEW
CARTERET AVENUE

FIGURE 1A

LEGEND

- PROPERTY LINE
- FENCE
- EXISTING SHEET PILE
- CURB
- DEPRESSED CURB
- EXCAVATION ELEVATION CONTOURS 1' INTERVAL 5' INDEX
- COMBINED SEWER MANHOLE
- GAS VALVE
- WATER VALVE
- CATCH BASIN INLET
- GAS UTILITY LINE
- WATER UTILITY LINE
- 48" STEEL COMBINED SEWER (APPROXIMATE)
- 96" STEEL COMBINED SEWER (APPROXIMATE)
- NON-CHROME FILL MATERIAL TO BE REMOVED DURING EXCAVATION OF CLEAN CORRIDOR
- 13B-J BORING/MONITORING WELL/TEST PIT/POST-EXCAVATION SAMPLE LOCATION WITH NON-CCPW DATA

NOTES:

1. NON-CHROME FILL MATERIAL TO BE REMOVED FROM ELEVATION SHOWN TO THE BOTTOM OF EXCAVATION AND STOCKPILED FOR RE-USE.

2. CCPW DATA INCLUDES HEXAVALENT CHROMIUM AND CCPW-RELATED METALS (ANTIMONY, CHROMIUM, NICKEL, THALLIUM, VANADIUM)

CCPW CHROMATE CHEMICAL PRODUCTION WASTE
CY CUBIC YARD
EL. ELEVATION

REFER TO FIGURE 1A

MATCHLINE

SITE 137A

SITE 114

HALSTED

SITE 133E

SITE 135

HALLADAY STREET

CARTERET AVENUE

GENERATORS

LOADING DOCK

AREA 5: 400 CY

EL. 6.4
SEE NOTE 1

101
PACIFIC
AVENUE

NORTH
NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83

10 0 20
GRAPHIC SCALE IN FEET

AECOM

PPG GARFIELD AVENUE GROUP JERSEY CITY, NEW JERSEY			**NON-CHROME FILL EXCAVATION AREAS PLAN VIEW CARTERET AVENUE**
DATE: 05/30/2019	DRWN: ASK		**FIGURE 1B**

File: P:\Jobs\Prem_Eng\Project Files\PPG Industries\Garfield Avenue\103E Design\CAD\GIS\Cartaret Cross Sections\Plan View-Cx Cross Sections\2019-03-26 Cartaret Remediation Plan View Cx® Data.dwg Layout: FIGURE 1B User: antonns Plotted: May 30, 2019 - 1:41pm Xref:

Laboratory Analytical Report *(provided separately)*

Data Validation Report *(provided separately)*