ATTACHMENT 12

COMPLIANCE AVERAGING DOCUMENTATION

CB&I Environmental & Infrastructure, Inc.
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Trenton, NJ 08691
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MEMORANDUM

To: **Crystal Leavey, LSRP**
From: **Marshall E. King, P.E., LSRP**
Project: **PPG, Site 63, 1 Burma Road, Jersey City, NJ**
Subject: **Compliance Averaging Analysis**
Report Date: **May 9, 2017**

Pre-post excavation soil samples (from the 2013 design boring investigation) and post-excavation soil samples (including base and sidewall samples from the remedial action between 2014 and 2016) at Site 63 were collected that served as the post-remedial samples used to document the effectiveness and completeness of the soil remediation. These samples were collected at a frequency of at least one sample per 900 square feet (sf) of excavation bottom and/or one sample per every 30 linear feet (LF) of excavation sidewall and were evaluated for compliance with applicable soil remediation standards. Elevated detected concentrations and elevated reporting limits for antimony and thallium were reported in laboratory analytical results. In order to demonstrate compliance at the site with the soil remediation standards (SRS) and impact-to-groundwater soil screening levels (IGW SSL), these post-excavation results were evaluated using a compliance averaging analysis, specifically the "75 Percent / 10x Procedure."

Delineation

Based on the extensive data set of post-remedial sample locations (including both pre-post-excavation and post-excavation samples) combined with visual observations during excavation, the aerial extent of the onsite chromate chemical production waste (CCPW) impacted fill has been horizontally and vertically delineated. As the 2013 design boring program was implemented to obtain pre-post-excavation samples to demonstrate vertical delineation of CCPW-impacted fill, CB&I believes that it is technically appropriate to apply compliance averaging techniques to these vertical delineation sample results that are located within the delineated horizontal boundaries of the impacted area. The addition of fringe side-wall and base post-excavation samples from the perimeter of the excavation complete the horizontal delineation of the site.

Remedial Volume

The area for this analysis covers the remedial extents of the completed excavation which constitutes one continuous area of concern (AOC) and that covers ±2.82-acres. As per Appendix A4.0 of the *NJDEP Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria* (Version 1.0, September 2012), a minimum of 12 samples are required per 3,000 cy of material excavated/remediated. A total of 35,309 tons of material was excavated from the site. Assuming a density of 1.5 tons per cubic yard (cy) of material, this equates to approximately 23,500 cy of material. Therefore, a minimum of 188 post-remedial samples are required to apply the method. The following post-remedial sample location counts were collected during each phase of investigation at the site:

- 192 base and sidewall sample locations during remedial action (RA) from 2014-2015;
- 5 sample locations during the post-RA in 2016;

- 27 base and sidewall sample locations during the post-RA Supplemental Remedial Investigation in 2016;
- 58 pre-post-excavation locations during the design borings program in 2013;
- 60 pre-post excavation sample locations during the Remedial Investigation from 2011-2012;
- 13 sample locations during the Site Investigation in 2011; and
- 5 sample locations during after the Remedial Action that was performed from 1998-1999.

This is a total of 360 sample locations to define the limits of the excavation. Note that in some cases, multiple samples were collected at various depths at each location, but for the purposes of this analysis we are only considering the single uppermost sample per location as a compliance point. The vertical zone of CCPW-impacted materials ranged from 0 to 10.3 feet below ground surface (ft bgs), and all samples used for this analysis were present within this single zone.

Excluded Samples

The following detections for antimony were excluded from this analysis:

- o 063_C013A
  - 0 to 0.5 ft bgs (10.0 mg/kg)
  - 0.5 to 1 ft bgs (18.8 mg/kg)
  - 1.5 to 2 ft bgs (9.8 mg/kg)
  - 2.5 to 3 ft bgs (11.1 mg/kg)
  - 3.5 to 4 ft bgs (12.4 mg/kg)

There are multiple lines of evidence that indicate the antimony results in sample 063_C013A are not related to the CCPW that was identified on Site 63, but are instead related to the presence of non-CCPW fill material on the New Jersey Turnpike Authority property located to the northeast of Site 63. Antimony concentrations in soil were found to be in compliance at the site boundary of Site 63 in all samples collected in this area. In addition, CCPW was not identified in the soil at this boring location. Furthermore, antimony concentrations were not found to be within the range identified in sample 063_C013A on Site 63, even in locations where CCPW was positively identified. It can therefore be concluded that the antimony results in sample 063_C013A are not indicative of PPG-related contamination.

Remediation Standards and Criteria

The following table summarizes the applicable soil remediation standards and soil screening levels used in this compliance averaging analysis.

	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact-to-Groundwater Soil Screening Level (11/2013)
Antimony (mg/kg)	450	31	6
Thallium (mg/kg)	79	5	3

Antimony (Sb)

For Antimony, either sample results were reported to be above the NJDEP SRS or elevated reporting limits (RLs) were documented. These samples were:

- BR003, 8.1 to 8.6 ft bgs (<6.8 NJ- mg/kg)
- PPG 63/65_B43R, -0.8 to -1.3 ft el (<6.9 NJ- mg/kg)
- BD008, 6 to 6.5 ft bgs (<11 NJ- mg/kg)
- BD010, 6 to 6.5 ft bgs (93.4 mg/kg)
- SWR009, 1.0 to 1.5 ft bgs (30.3 NJ-)

These five sample locations constitute 1.4% of the post-remedial sample locations at the site, therefore 98.6% of the post-remedial sample locations are either non-detect or exhibit antimony concentrations less than the soil remediation standards (SRS) and/or impact-to-groundwater soil screening level (IGW SSL). This is above the 75% threshold for this analysis.

The exceedance of the IGW SSL for antimony in soil sample BD010 is located within the saturated zone and the IGW SSL does not apply. All remaining reporting limits and detections for antimony are less than 10 times the most stringent standard (IGW SSL) of 6 mg/kg (i.e., less than 60 mg/kg).

The detection in soil sample BD010 is in excess of the Residential SRS; however the result is less than 10 times the applicable residential soil remediation standard of 31 mg/kg (i.e., less than 310 mg/kg).

Thallium (Tl)

For Thallium, the reporting limits (RLs) for four non-detect samples were reported to be above the NJDEP RDC Standard. These samples were:

- 065_A005, 5 to 5.5 ft bgs (<6.3 U mg/kg)
- 065_A006, 8.2 to 8.7 ft bgs (<5.6 U mg/kg)
- BD008, 6 to 6.5 ft bgs (<5.7 mg/kg)
- PPG 63/65_B29, 7.8 to 8.3 ft bgs (<6.3 mg/kg)

These reporting limits for thallium are less than 10 times the RDC Standard of 5 mg/kg (i.e., less than 50 mg/kg).

For Thallium, the RL for one non-detect sample was reported to be above the NJDEP Default IGW SSL. This sample was:

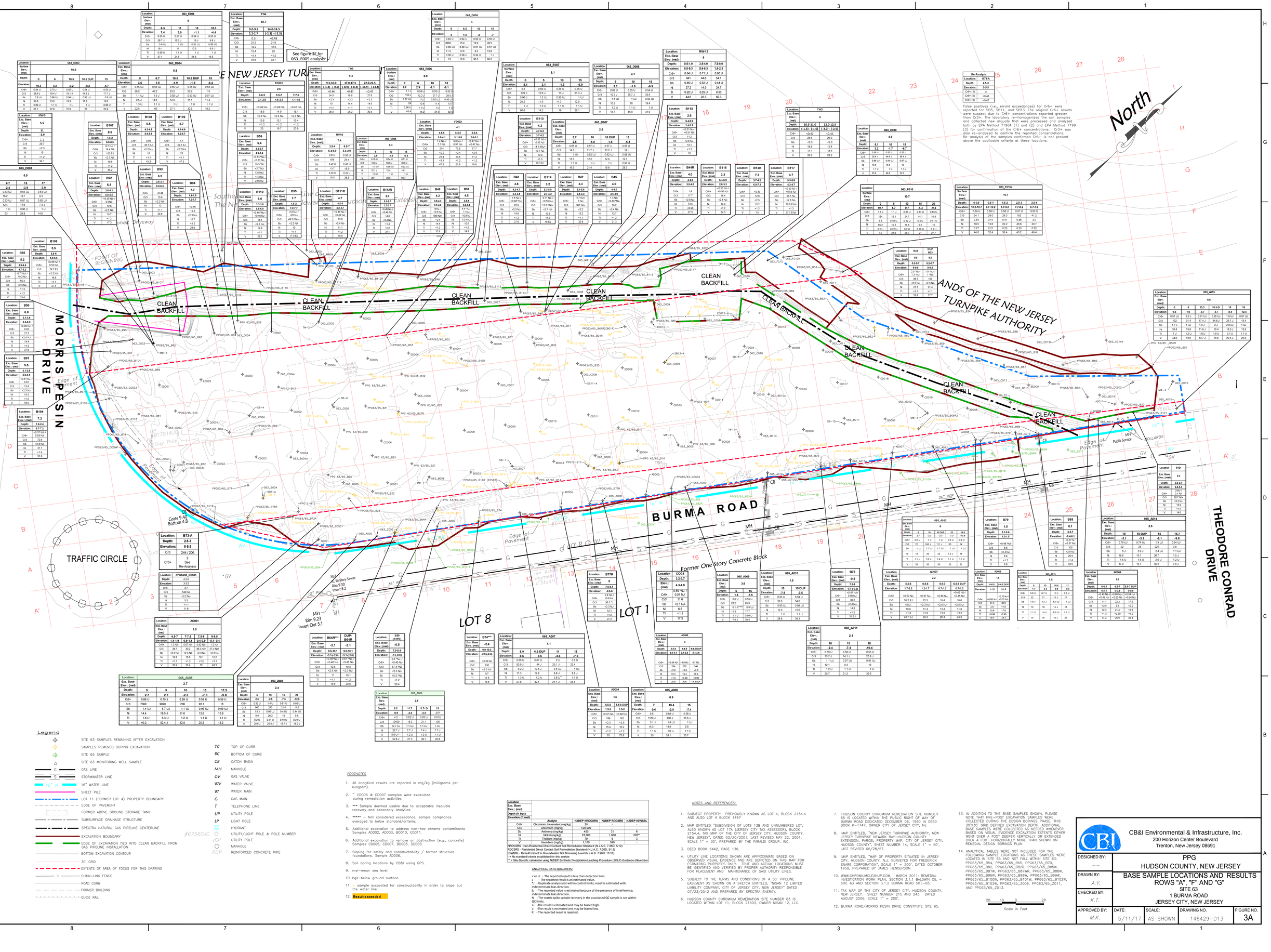
- PPG 63/65-SW33, 1.5 to 2 ft bgs (<3.1 mg/kg)

These five sample locations constitute 1.4% of the post-remedial sample locations at the site, therefore 98.6% of the post-remedial sample locations are either non-detect or in compliance below applicable standards and criteria. This is above the 75% threshold for this analysis. All reporting limits for thallium are less than 10 times the IGW SSL of 3 mg/kg (i.e., less than 30 mg/kg).

Conclusions

For antimony and thallium, greater than 75% of the post-remedial sample results were either non-detect or in compliance with the standards and criteria, and all reporting limits and contaminant detections were less than 10 times the applicable remediation standard or criteria. Based on these findings, the remediation of these contaminants in soil is deemed complete.

FIGURES



OFFICE Trenton, NJ

DRAWING NUMBER 146429-D13-1

Re-Analysis	
Location:	B73-A
Depth:	2.5-3
Elevation:	5-5.5
Cr6+ (1)	2
Cr6+ (2)	<0.48
Cr6+ (3)	<0.47

False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than Cr3+. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A (1) and (2) and EPA Method 7199 (3) for confirmation of the Cr6+ concentrations. Cr3+ was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

Location:	065_A005				
Exc. Base Elev.: (msl)	2.7				
Depth:	5	5	10	15	17.5
Elevation:	2.7	2.7	-2.3	-7.3	-9.8
Cr6+	0.66 U	0.75 J	0.69 U	0.59 U	0.56 U
Cr3	7060	9090	206	92.1	18
Sb	1.4 UJ	5.7 UJ	1.1 UJ	0.99 UJ	0.99 UJ
Ni	14.4	18.5 J	11.6	12.6	10.9
Tl	1.6 U	6.3 U	1.2 U	1.1 U	1.1 U
V	40.2	52.4 J	32.8	20.9	18.2

Location:	063_Z005			
Exc. Base Elev.: (msl)	2.4			
Depth:	5	10	15	20
Elevation:	2.5	-2.5	-7.5	-12.5
Cr6+	0.95 U	1.4 U	0.81 U	0.85 U
Cr3	860	245	21.8	11.6
Sb	1.9 J	0.66 UJ	0.4 UJ	0.44 UJ
Ni	9.9	26.2	10	9.5
Tl	0.2 U	0.31 U	0.19 U	0.21 U
V	20.6 J	25.8 J	19.7 J	16.2 J

Legend

- ⌖ SITE 63 SAMPLES REMAINING AFTER EXCAVATION
- ⌖ SAMPLES REMOVED DURING EXCAVATION
- ⌖ SITE 65 SAMPLE
- △ SITE 63 MONITORING WELL SAMPLE
- —G— GAS LINE
- —S— STORMWATER LINE
- —16" W— 16" WATER LINE
- SHEET PILE
- LOT 11 (FORMER LOT 4) PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- FORMER ABOVE GROUND STORAGE TANK
- SUBSURFACE DRAINAGE STRUCTURE
- SPECTRA NATURAL GAS PIPELINE CENTERLINE
- EXCAVATION BOUNDARY
- EDGE OF EXCAVATION TIED INTO CLEAN BACKFILL FROM GAS PIPELINE INSTALLATION
- —1— BOTTOM EXCAVATION CONTOUR
- 30' GRID
- EXTENTS OF AREA OF FOCUS FOR THIS DRAWING
- —X— CHAIN-LINK FENCE
- ROAD CURB
- FORMER BUILDING
- GUIDE RAIL

TC	TOP OF CURB
BC	BOTTOM OF CURB
CB	CATCH BASIN
MH	MANHOLE
GV	GAS VALVE
WV	WATER VALVE
W	WATER MAIN
G	GAS MAIN
T	TELEPHONE LINE
UP	UTILITY POLE
LP	LIGHT POLE
☼	HYDRANT
#67560JC ☼	UTILITY/LIGHT POLE & POLE NUMBER
	UTILITY POLE
○	MANHOLE
RCP	REINFORCED CONCRETE PIPE

FOOTNOTES

1. All analytical results are reported in mg/kg (milligrams per kilogram).
2. ^ CD005 & CD007 samples were excavated during remediation activities.
3. *** Sample deemed usable due to acceptable insoluble recovery and secondary analytics.
4. ***** – Not considered exceedance, sample compliance averaged to below standard/criteria.
5. Additional excavation to address non-hex chrome contaminants Samples AD002, AD003, BD010, ED011.
6. Additional excavation to remove an obstruction (e.g., concrete) Samples CD005, CD007, BD003, DD003.
7. Sloping for safety and constructability / former structure foundations. Sample AD006.
8. Soil boring locations by CB&I using GPS.
9. msl–mean sea level.
10. bgs–below ground surface.
11. + sample excavated for constructability in order to slope out the water line.
12. **Result exceeded**

Location				
Exc. Base Elev.: (msl)				
Depth (ft bgs)				
Elevation (ft msl)				
	Analyte	NJDEP NRDCSRS	NJDEP RDCSRS	NJDEP IGWSSL
Cr6+	Chromium, Hexavalent (mg/kg)	20	-	-
Cr3	Chromium (mg/kg)	120,000	-	-
Sb	Antimony (mg/kg)	450	31	6
Ni	Nickel (mg/kg)	23,000	1,600	205**
Tl	Thallium (mg/kg)	79	5	3
V	Vanadium (mg/kg)	1,100	390	-

NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
RDCSRS - Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
IGWSSL - Default Impact to Groundwater Soil Screening Level (N.J.A.C. 7:26D, 11/13)
- = No standard/criteria established for this analyte.
** = Site-Specific calculation using NJDEP Synthetic Precipitation Leaching Procedure (SPLP) Guidance (November

ANALYTICAL DATA QUALIFIERS:

< or U - The reported result is less than detection limit.
J - The reported result is an estimated value.
*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.
EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.
N - The matrix spike sample recovery in the associated QC sample is not within QC limits.
J+ -The result is estimated and may be biased high.
J- -The result is estimated and may be biased low.
R - The reported result is rejected.

NOTES AND REFERENCES:

1. SUBJECT PROPERTY PREVIOUSLY KNOWN AS LOT 4, BLOCK 2154.4 AND ALSO LOT 4 BLOCK 1497
2. MAP ENTITLED "SUBDIVISION OF LOTS 13B AND UNNUMBERED LOT, ALSO KNOWN AS LOT 17A (JERSEY CITY TAX ASSESSOR), BLOCK 2154.4, TAX MAP OF THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY", DATED 03/20/2001, LAST REVISED MAY 22, 2001, SCALE 1" = 30', PREPARED BY THE FARALDI GROUP, INC.
3. DEED BOOK 5442, PAGE 130.
4. UTILITY LINE LOCATIONS SHOWN ARE APPROXIMATE BASED ON OBSERVED VISUAL EVIDENCE AND ARE DEPICTED ON THIS MAP FOR ESTIMATING PURPOSES ONLY. TRUE AND ACTUAL LOCATIONS MUST BE IDENTIFIED AND VERIFIED BY PROPER AUTHORITY RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF SAID UTILITY LINES.
5. SUBJECT TO THE TERMS AND CONDITIONS OF A 50' PIPELINE EASEMENT AS SHOWN ON A SKETCH ENTITLED, "NISAN 12 LIMITED LIABILITY COMPANY, CITY OF JERSEY CITY, NEW JERSEY" DATED 07/23/2012 AND PREPARED BY SPECTRA ENERGY.
6. HUDSON COUNTY CHROMIUM REMEDIATION SITE NUMBER 63 IS LOCATED WITHIN LOT 11, BLOCK 21503, OWNER NISAN 12, LLC.
7. HUDSON COUNTY CHROMIUM REMEDIATION SITE NUMBER 65 IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY OF BURMA ROAD DEDICATED DECEMBER 06, 1960 IN DEED BOOK K-1747, OWNER CITY OF JERSEY CITY, NJ.
8. MAP ENTITLED, "NEW JERSEY TURNPIKE AUTHORITY, NEW JERSEY TURNPIKE NEWARK BAY-HUDSON COUNTY EXTENSION, PARCEL PROPERTY MAP, CITY OF JERSEY CITY, HUDSON COUNTY", SHEET NUMBER 14, SCALE 1" = 50', LAST REVISED 06/28/57.
9. MAP ENTITLED, "MAP OF PROPERTY SITUATED IN JERSEY CITY, HUDSON COUNTY, N.J. SURVEYED FOR FREDERICK SNARE CORPORATION", SCALE 1" = 200', DATED OCTOBER 1958, PREPARED BY JAMES HENDERSON.
10. WWW.CHROMIUMCLEANUP.COM, MARCH 2011: REMEDIAL INVESTIGATION WORK PLAN, SECTION 3.1.1 BALDWIN OIL – SITE 63 AND SECTION 3.1.2 BURMA ROAD SITE-65.
11. TAX MAP OF THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY. SHEET NUMBER 215 AND 243. DATED AUGUST 2006, SCALE 1" = 200'.
12. BURMA ROAD/MORRIS PESIN DRIVE CONSTITUTE SITE 65.
13. IN ADDITION TO THE BASE SAMPLES SHOWN, PLEASE NOTE THAT PRE-POST EXCAVATION SAMPLES WERE COLLECTED DURING THE DESIGN BORINGS PHASE. THIS 30'X30' GRID DEFINED EXCAVATION DEPTH. ADDITIONAL BASE SAMPLES WERE COLLECTED AS NEEDED WHENEVER BASED ON VISUAL EVIDENCE EXCAVATION EXTENTS EITHER WENT OVER A FOOT DEEPER VERTICALLY OR EXTENDED OVER A FOOT HORIZONTALLY MORE THAN SHOWN ON REMEDIAL DESIGN BORINGS PLAN.
14. ANALYTICAL TABLES WERE NOT INCLUDED FOR THE FOLLOWING SAMPLE LOCATIONS AS THESE SAMPLES WERE LOCATED IN SITE 65 AND NOT FALL WITHIN SITE 63: PPG63/65_B54, PPG63/65_B65, PPG63/65_B70, PPG63/65_B82, PPG63/65_B82R, PPG63/65_B85W, PPG63/65_B87W, PPG63/65_B87WR, PPG63/65_B88W, PPG63/65_B96W, PPG63/65_B98W, PPG63/65_B99W, PPG63/65_B100W, PPG63/65_B101W, PPG63/65_B102W, PPG63/65_B103W, PPG63/65_Z009, PPG63/65_Z011, AND PPG63/65_Z013.

20 10 0 20
Scale in Feet

CB&I Environmental & Infrastructure, Inc.
200 Horizon Center Boulevard
Trenton, New Jersey 08691

PPG
HUDSON COUNTY, NEW JERSEY

BASE SAMPLE LOCATIONS AND RESULTS
ROWS "A", "F" AND "G"
SITE 63
1 BURMA ROAD
JERSEY CITY, NEW JERSEY

DESIGNED BY: --				
DRAWN BY: A.Y.				
CHECKED BY: K.T.				
APPROVED BY: M.K.	DATE: 5/11/17	SCALE: AS SHOWN	DRAWING NO. 146429-D13	FIGURE NO. 3A

OFFICE
Trenton, NJ

DRAWING NUMBER
146429-D13-1

Re-Analysis			
Location:	SB5-A		
Depth:	10.4-10.9	10.9-11.4	11.4-11.9
Elevation:	-2.9 - (-2.4)	-3.4 - (-2.9)	-3.9 - (-3.4)
Cr6+ (1)	37.2	-	-
Cr6+ (2)	1.6	-	-
Cr6+ (3)	<1.3	-	-

False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than Cr3+. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A (1) and (2) and EPA Method 7199 (3) for confirmation of the Cr6+ concentrations. Cr3+ was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

Location:	SB5-A		
Depth:	10.4-10.9	10.9-11.4	11.4-11.9
Elevation:	-2.9 - (-2.4)	-3.4 - (-2.9)	-3.9 - (-3.4)
Cr3	19.4 / 21.9	12.3	6
Cr6+	37.2 See Re-Analysis	-	-

Legend

⌖	SITE 63 SAMPLES REMAINING AFTER EXCAVATION
⌖	SAMPLES REMOVED DURING EXCAVATION
⌖	SITE 65 SAMPLE
— G —	GAS LINE
— S —	STORMWATER LINE
— 16" W —	16" WATER LINE
──	SHEET PILE
— · —	LOT 11 (FORMER LOT 4) PROPERTY BOUNDARY
– – –	EDGE OF PAVEMENT
▭	FORMER ABOVE GROUND STORAGE TANK
— · —	SUBSURFACE DRAINAGE STRUCTURE
— · —	SPECTRA NATURAL GAS PIPELINE CENTERLINE
──	EXCAVATION BOUNDARY
— —	EDGE OF EXCAVATION TIED INTO CLEAN BACKFILL FROM GAS PIPELINE INSTALLATION
—1—	BOTTOM EXCAVATION CONTOUR
──	30' GRID
– – –	EXTENTS OF AREA OF FOCUS FOR THIS DRAWING
— X —	CHAIN-LINK FENCE
──	ROAD CURB
– – –	FORMER BUILDING
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TC	TOP OF CURB
BC	BOTTOM OF CURB
CB	CATCH BASIN
MH	MANHOLE
GV	GAS VALVE
WV	WATER VALVE
W	WATER MAIN
G	GAS MAIN
T	TELEPHONE LINE
UP	UTILITY POLE
LP	LIGHT POLE
☼	HYDRANT
#67560JC ☼	UTILITY/LIGHT POLE & POLE NUMBER
☼	UTILITY POLE
○	MANHOLE
RCP	REINFORCED CONCRETE PIPE

FOOTNOTES

1. All analytical results are reported in mg/kg (milligrams per kilogram).
2. ^ CD005 & CD007 samples were excavated during remediation activities.
3. ^^ exceedances are below water table NJDEP IGWSSL does not appply.
4. * – Hex-chrome sample did not pass 2nd QA/QC.
5. *** – Not considered exceedance, sample compliance averaged to below standard/criteria.
6. **** – Proposed elevation exceeded due to constructability issues.
7. Additional excavation to address non-hex chrome contaminants Samples AD002, AD003, BD010, ED011.
8. Additional excavation to remove an obstruction (e.g., concrete) Samples CD005, CD007, BD003, DD003.
9. Sloping for safety and constructability / former structure foundations. Sample AD006.
10. Soil boring locations by CB&I using GPS.
11. msl–Mean sea level.
12. bgs–Below ground surface.
13. ª –Elevated detection limit due to dilution.
14. **Result exceeded**

Sample required complaince averaging analysis.

Location				
Exc. Base Elev.: (msl)				
Depth (ft bgs)				
Elevation (ft msl)				
	Analyte	**NJDEP NRDCSRS**	**NJDEP RDCSRS**	**NJDEP IGWSSL**
Cr6+	Chromium, Hexavalent (mg/kg)	20	-	-
Cr3	Chromium (mg/kg)	120,000	-	-
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7. HUDSON COUNTY CHROMIUM REMEDIATION SITE NUMBER 65 IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY OF BURMA ROAD DEDICATED DECEMBER 06, 1960 IN DEED BOOK K-1747, OWNER CITY OF JERSEY CITY, NJ.
8. MAP ENTITLED, "NEW JERSEY TURNPIKE AUTHORITY, NEW JERSEY TURNPIKE NEWARK BAY-HUDSON COUNTY EXTENSION, PARCEL PROPERTY MAP, CITY OF JERSEY CITY, HUDSON COUNTY", SHEET NUMBER 14, SCALE 1" = 50', LAST REVISED 06/28/57.
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12. BURMA ROAD/MORRIS PESIN DRIVE CONSTITUTE SITE 65.
13. IN ADDITION TO THE BASE SAMPLES SHOWN, PLEASE NOTE THAT PRE-POST EXCAVATION SAMPLES WERE COLLECTED DURING THE DESIGN BORINGS PHASE. THIS 30'X30' GRID DEFINED EXCAVATION DEPTH. ADDITIONAL BASE SAMPLES WERE COLLECTED AS NEEDED WHENEVER BASED ON VISUAL EVIDENCE EXCAVATION EXTENTS EITHER WENT OVER A FOOT DEEPER VERTICALLY OR EXTENDED OVER A FOOT HORIZONTALLY MORE THAN SHOWN ON REMEDIAL DESIGN BORINGS PLAN.
14. ANALYTICAL TABLES WERE NOT INCLUDED FOR THE FOLLOWING SAMPLE LOCATIONS AS THESE SAMPLES WERE LOCATED IN SITE 65 AND NOT FALL WITHIN SITE 63: PPG63/65_B54, PPG63/65_B65, PPG63/65_B70, PPG63/65_B82, PPG63/65_B82R, PPG63/65_B85W, PPG63/65_B87W, PPG63/65_B87WR, PPG63/65_B88W, PPG63/65_B96W, PPG63/65_B98W, PPG63/65_B99W, PPG63/65_B100W, PPG63/65_B101W, PPG63/65_B102W, PPG63/65_B103W, PPG63/65_Z009, PPG63/65_Z011, AND PPG63/65_Z013.

20 10 0 20
Scale in Feet

CB&I Environmental & Infrastructure, Inc.
200 Horizon Center Boulevard
Trenton, New Jersey 08691

DESIGNED BY: --	PPG HUDSON COUNTY, NEW JERSEY
DRAWN BY: A.Y.	BASE SAMPLE LOCATIONS AND RESULTS ROWS "B" AND "C" SITE 63 1 BURMA ROAD JERSEY CITY, NEW JERSEY
CHECKED BY: K.T.	

APPROVED BY:	DATE:	SCALE:	DRAWING NO.	FIGURE NO.
M.K.	5/11/17	AS SHOWN	146429-D13	3B

File: K:\Project\146429-PPG\sites 63 and 65\REVISIONS 12-21-16\146429-D13-1.dwg
Plot Date/Time: May 11, 2017 - 8:53am
Plotted By: Andrius.Yanavicius

OFFICE
Trenton, NJ

DRAWING NUMBER
146429-D13-1

Re-Analysis				Re-Analysis				Re-Analysis	
Location:	SB11-A			Location:	SB13-A			Location:	ED012-A
Depth:	8.9-9.4	9.4-9.9	9.9-10.4	Depth:	9-9.5	9.5-10	10-10.5	Depth:	7.8-8.3
Elevation:	-0.4 - 0.1	-0.9 - (-0.4)	-1.4 - (-0.9)	Elevation:	-0.5- 0	-1 - (-0.5)	-1.5 - (-1.0)	Elevation:	0.7-1.2
Cr6+ (1)	27.7	-	-	Cr6+ (1)	45.4	-	-	Cr6+ (1)	0.7
Cr6+ (2)	1.7	-	-	Cr6+ (2)	2.7	-	-	Cr6+ (2)	0.48
Cr6+ (3)	<1.3	-	-	Cr6+ (3)	<1.5	-	-	Cr6+ (3)	0.86

False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than Cr3+. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A (1) and (2) and EPA Method 7199 (3) for confirmation of the Cr6+ concentrations. Cr3+ was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

Legend

⌖	SITE 63 SAMPLES REMAINING AFTER EXCAVATION
⌖	SAMPLES REMOVED DURING EXCAVATION
⊞	SITE 65 SAMPLE
—— G ——	GAS LINE
—— S ——	STORMWATER LINE
—— 16" W ——	16" WATER LINE
——	SHEET PILE
— · · —	LOT 11 (FORMER LOT 4) PROPERTY BOUNDARY
— — — —	EDGE OF PAVEMENT
▭	FORMER ABOVE GROUND STORAGE TANK
— · —	SUBSURFACE DRAINAGE STRUCTURE
— · —	SPECTRA NATURAL GAS PIPELINE CENTERLINE
——	EXCAVATION BOUNDARY
—— ——	EDGE OF EXCAVATION TIED INTO CLEAN BACKFILL FROM GAS PIPELINE INSTALLATION
——1——	BOTTOM EXCAVATION CONTOUR
——	30' GRID
— — —	EXTENTS OF AREA OF FOCUS FOR THIS DRAWING
—— X ——	CHAIN-LINK FENCE
——	ROAD CURB
— — —	FORMER BUILDING
∘∘∘∘∘	GUIDE RAIL

TC	TOP OF CURB
BC	BOTTOM OF CURB
CB	CATCH BASIN
MH	MANHOLE
GV	GAS VALVE
WV	WATER VALVE
W	WATER MAIN
G	GAS MAIN
T	TELEPHONE LINE
UP	UTILITY POLE
LP	LIGHT POLE
☼	HYDRANT
#67560JC ☼	UTILITY/LIGHT POLE & POLE NUMBER
☼	UTILITY POLE
○	MANHOLE
RCP	REINFORCED CONCRETE PIPE

FOOTNOTES

1. All analytical results are reported in mg/kg (milligrams per kilogram).
2. ^ CD005 & CD007 samples were excavated during remediation activities.
3. ^^ exceedances are below water table NJDEP IGWSSL does not appply.
4. *** – Not considered exceedance, sample compliance averaged to below standard/criteria.
5. **** – Proposed elevation exceeded due to constructability issues.
6. Additional excavation to address non-hex chrome contaminants Samples AD002, AD003, BD010, ED011.
7. Additional excavation to remove an obstruction (e.g., concrete) Samples CD005, CD007, BD003, DD003.
8. Sloping for safety and constructability / former structure foundations. Sample AD006.
9. Soil boring locations by CB&I using GPS.
10. msl–mean sea level.
11. bgs–below ground surface.
12. **Result exceeded**

Location				
Exc. Base Elev.: (msl)				
Depth (ft bgs)				
Elevation (ft msl)				
	Analyte	NJDEP NRDCSRS	NJDEP RDCSRS	NJDEP IGWSSL
Cr6+	Chromium, Hexavalent (mg/kg)	20	-	-
Cr3	Chromium (mg/kg)	120,000	-	-
Sb	Antimony (mg/kg)	450	31	6
Ni	Nickel (mg/kg)	23,000	1,600	205**
Tl	Thallium (mg/kg)	79	5	3
V	Vanadium (mg/kg)	1,100	390	-

NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
RDCSRS - Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
IGWSSL - Default Impact to Groundwater Soil Screening Level (N.J.A.C. 7:26D, 11/13)
- = No standard/criteria established for this analyte.
** = Site-Specific calculation using NJDEP Synthetic Precipitation Leaching Procedure (SPLP) Guidance (November

ANALYTICAL DATA QUALIFIERS:

< or U - The reported result is less than detection limit.
J - The reported result is an estimated value.
*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.
EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.
N - The matrix spike sample recovery in the associated QC sample is not within QC limits.
J+ -The result is estimated and may be biased high.
J- -The result is estimated and may be biased low.
R - The reported result is rejected.

NOTES AND REFERENCES:

1. SUBJECT PROPERTY PREVIOUSLY KNOWN AS LOT 4, BLOCK 2154.4 AND ALSO LOT 4 BLOCK 1497
2. MAP ENTITLED "SUBDIVISION OF LOTS 13B AND UNNUMBERED LOT, ALSO KNOWN AS LOT 17A (JERSEY CITY TAX ASSESSOR), BLOCK 2154.4, TAX MAP OF THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY", DATED 03/20/2001, LAST REVISED MAY 22, 2001, SCALE 1" = 30', PREPARED BY THE FARALDI GROUP, INC.
3. DEED BOOK 5442, PAGE 130.
4. UTILITY LINE LOCATIONS SHOWN ARE APPROXIMATE BASED ON OBSERVED VISUAL EVIDENCE AND ARE DEPICTED ON THIS MAP FOR ESTIMATING PURPOSES ONLY. TRUE AND ACTUAL LOCATIONS MUST BE IDENTIFIED AND VERIFIED BY PROPER AUTHORITY RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF SAID UTILITY LINES.
5. SUBJECT TO THE TERMS AND CONDITIONS OF A 50' PIPELINE EASEMENT AS SHOWN ON A SKETCH ENTITLED, "NISAN 12 LIMITED LIABILITY COMPANY, CITY OF JERSEY CITY, NEW JERSEY" DATED 07/23/2012 AND PREPARED BY SPECTRA ENERGY.
6. HUDSON COUNTY CHROMIUM REMEDIATION SITE NUMBER 63 IS LOCATED WITHIN LOT 11, BLOCK 21503, OWNER NISAN 12, LLC.
7. HUDSON COUNTY CHROMIUM REMEDIATION SITE NUMBER 65 IS LOCATED WITHIN THE PUBLIC RIGHT OF WAY OF BURMA ROAD DEDICATED DECEMBER 06, 1960 IN DEED BOOK K-1747, OWNER CITY OF JERSEY CITY, NJ.
8. MAP ENTITLED, "NEW JERSEY TURNPIKE AUTHORITY, NEW JERSEY TURNPIKE NEWARK BAY-HUDSON COUNTY EXTENSION, PARCEL PROPERTY MAP, CITY OF JERSEY CITY, HUDSON COUNTY", SHEET NUMBER 14, SCALE 1" = 50', LAST REVISED 06/28/57.
9. MAP ENTITLED, "MAP OF PROPERTY SITUATED IN JERSEY CITY, HUDSON COUNTY, N.J. SURVEYED FOR FREDERICK SNARE CORPORATION", SCALE 1" = 200', DATED OCTOBER 1958, PREPARED BY JAMES HENDERSON.
10. WWW.CHROMIUMCLEANUP.COM, MARCH 2011: REMEDIAL INVESTIGATION WORK PLAN, SECTION 3.1.1 BALDWIN OIL – SITE 63 AND SECTION 3.1.2 BURMA ROAD SITE-65.
11. TAX MAP OF THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY. SHEET NUMBER 215 AND 243. DATED AUGUST 2006, SCALE 1" = 200'.
12. BURMA ROAD/MORRIS PESIN DRIVE CONSTITUTE SITE 65.
13. IN ADDITION TO THE BASE SAMPLES SHOWN, PLEASE NOTE THAT PRE-POST EXCAVATION SAMPLES WERE COLLECTED DURING THE DESIGN BORINGS PHASE. THIS 30'X30' GRID DEFINED EXCAVATION DEPTH. ADDITIONAL BASE SAMPLES WERE COLLECTED AS NEEDED WHENEVER BASED ON VISUAL EVIDENCE EXCAVATION EXTENTS EITHER WENT OVER A FOOT DEEPER VERTICALLY OR EXTENDED OVER A FOOT HORIZONTALLY MORE THAN SHOWN ON REMEDIAL DESIGN BORINGS PLAN.
14. ANALYTICAL TABLES WERE NOT INCLUDED FOR THE FOLLOWING SAMPLE LOCATIONS AS THESE SAMPLES WERE LOCATED IN SITE 65 AND NOT FALL WITHIN SITE 63: PPG63/65_B54, PPG63/65_B65, PPG63/65_B70, PPG63/65_B82, PPG63/65_B82R, PPG63/65_B85W, PPG63/65_B87W, PPG63/65_B87WR, PPG63/65_B88W, PPG63/65_B96W, PPG63/65_B98W, PPG63/65_B99W, PPG63/65_B100W, PPG63/65_B101W, PPG63/65_B102W, PPG63/65_B103W, PPG63/65_Z009, PPG63/65_Z011, AND PPG63/65_Z013.

20 10 0 20
Scale in Feet

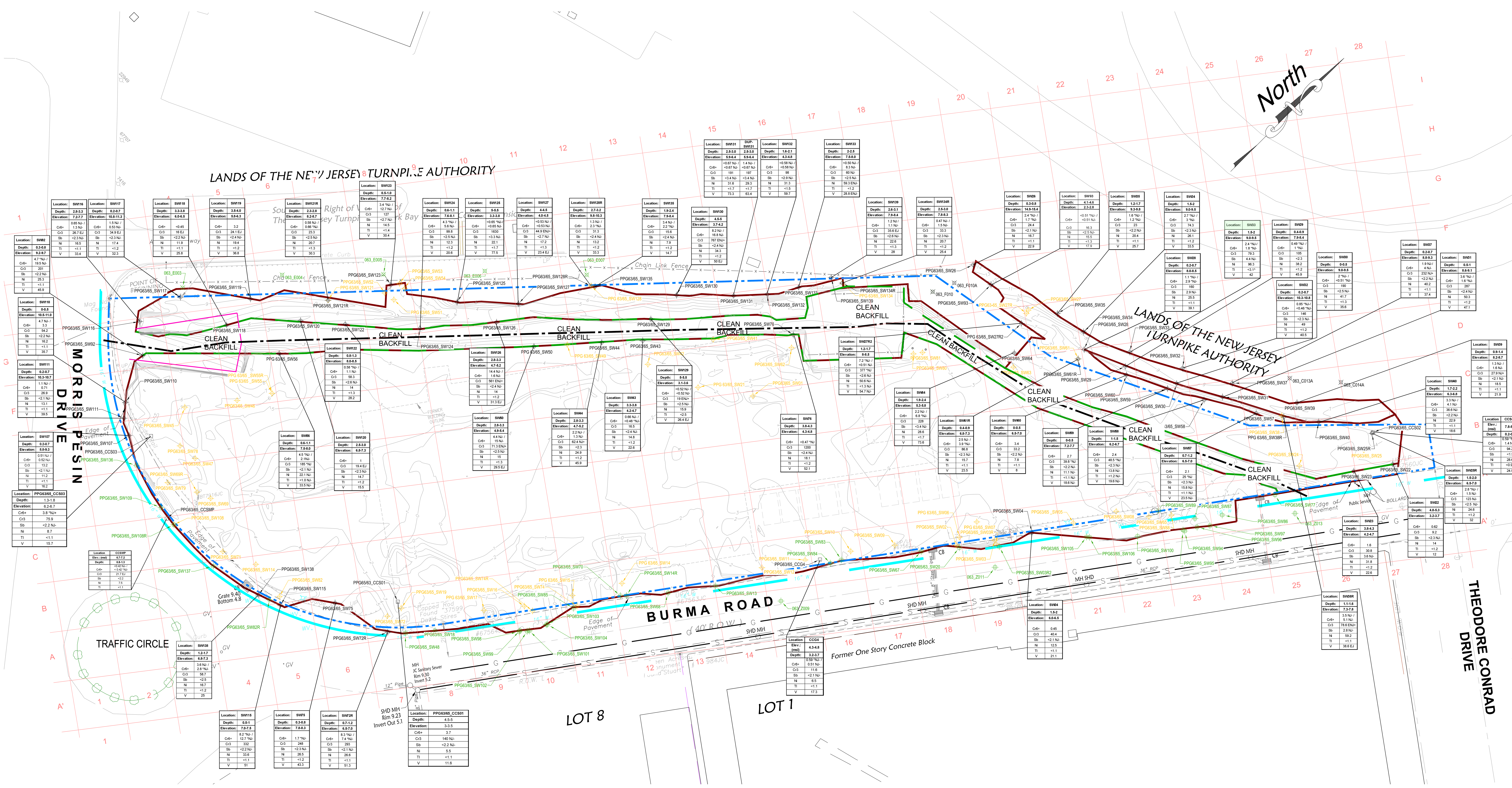
CB&I Environmental & Infrastructure, Inc.
200 Horizon Center Boulevard
Trenton, New Jersey 08691

PPG
HUDSON COUNTY, NEW JERSEY

BASE SAMPLE LOCATIONS AND RESULTS
ROWS "D" AND "E"
SITE 63
1 BURMA ROAD
JERSEY CITY, NEW JERSEY

DESIGNED BY: – –				
DRAWN BY: A.Y.				
CHECKED BY: K.T.				
APPROVED BY: M.K.	DATE: 5/11/17	SCALE: AS SHOWN	DRAWING NO. 146429-D13	FIGURE NO. 3C

OFFICE Trenton, NJ | DRAWING NUMBER 146429-D14



Legend

Symbol	Description
⌖	SITE 63 SIDEWALL SAMPLE
□	CONCRETE SAMPLE
⌖ (green)	SITE 65 SIDEWALL SAMPLE
⊠	DELINEATION SOIL BORING (LOCATED ON NJTPA PROPERTY)
⌖ (yellow)	SAMPLE LOCATION REMOVED DURING EXCAVATION
G	GAS LINE
S	STORMWATER LINE
16" W	16" WATER LINE
	SHEET PILE
	LOT 11 (FORMER LOT 4) PROPERTY BOUNDARY
	EDGE OF PAVEMENT
	FORMER ABOVE GROUND STORAGE TANK
	SUBSURFACE DRAINAGE STRUCTURE
	SPECTRA NATURAL GAS PIPELINE CENTERLINE
	EXCAVATION BOUNDARY
	EDGE OF EXCAVATION TIED INTO CLEAN BACKFILL FROM GAS PIPELINE INSTALLATION
1	BOTTOM EXCAVATION CONTOUR
	30' GRID
X	CHAIN-LINK FENCE
	ROAD CURB
	FORMER BUILDING
	GUIDE RAIL
TC	TOP OF CURB
BC	BOTTOM OF CURB
CB	CATCH BASIN
MH	MANHOLE
GV	GAS VALVE
WV	WATER VALVE
W	WATER MAIN
G	GAS MAIN
T	TELEPHONE LINE
UP	UTILITY POLE
LP	LIGHT POLE
	HYDRANT
#67560JC	UTILITY/LIGHT POLE & POLE NUMBER
	UTILITY POLE
○	MANHOLE
RCP	REINFORCED CONCRETE PIPE

FOOTNOTES:

1. All analytical results are reported in mg/kg (milligrams per kilogram).
2. PPG63/65_CCS01,PPG63/65CC_S02,PPG63/65_CCS023, PPG63/65_CCG4 AND PPG63/65_CCSMP are concrete samples.
3. ^– Sample compliance averaged to below standard/criteria.
4. Soil boring locations by CB&I using GPS.
5. msl–mean sea level.
6. bgs–below ground surface.
7. **Result exceeded**

Location Elevation (ft msl) Depth (ft bgs)	Analyte	NJDEP NRDCSRS	NJDEP RDCSRS	NJDEP IGWSSL
Cr6+	Chromium, Hexavalent (mg/kg)	20	-	-
Cr3	Chromium (mg/kg)	120,000	-	-
Sb	Antimony (mg/kg)	450	31	6
Ni	Nickel (mg/kg)	23,000	1,600	205**
Tl	Thallium (mg/kg)	79	5	3
V	Vanadium (mg/kg)	1,100	390	-

NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
RDCSRS - Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
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- = No standard/criteria established for this analyte.
** = Site-Specific Calculation using NJDEP Synthetic Precipitation Leaching Procedure (SPLP) Guidance (November 2013).

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*J - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.
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N - The matrix spike sample recovery in the associated QC sample is not within QC limits.
J+ -The result is estimated and may be biased high.
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3. DEED BOOK 5442, PAGE 130.
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5. SUBJECT TO THE TERMS AND CONDITIONS OF A 50' PIPELINE EASEMENT AS SHOWN ON A SKETCH ENTITLED, "NISAN 12 LIMITED LIABILITY COMPANY, CITY OF JERSEY CITY, NEW JERSEY" DATED 07/23/2012 AND PREPARED BY SPECTRA ENERGY.
6. HUDSON COUNTY CHROMIUM REMEDIATION SITE NUMBER 63 IS LOCATED WITHIN LOT 11, BLOCK 21503, OWNER NISAN 12, LLC.
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8. MAP ENTITLED, "NEW JERSEY TURNPIKE AUTHORITY, NEW JERSEY TURNPIKE NEWARK BAY–HUDSON COUNTY EXTENSION, PARCEL PROPERTY MAP, CITY OF JERSEY CITY, HUDSON COUNTY", SHEET NUMBER 14, SCALE 1" = 50', LAST REVISED 06/28/57.
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14. ANALYTICAL TABLES WERE NOT INCLUDED FOR THE FOLLOWING SAMPLE LOCATIONS AS THESE SAMPLES WERE LOCATED IN SITE 65 AND NOT FALL WITHIN SITE 63: SW03R, SW03R2, SW13, SW18, SW14R, SW20, SW48, SW67, SW68, SW70, SW74R, SW77, SW82R, SW83, SW84, SW85, SW86, SW87, SW88, SW89, SW94, SW95, SW96, SW97, SW98, SW99, SW100, SW101, SW102, SW103, SW104, SW105, SW106, SW108R, SW109, SW136, SW137, Z009, Z011, AND Z013.

20 10 0 20
Scale in Feet

CB&I Environmental & Infrastructure, Inc.
200 Horizon Center Boulevard
Trenton, New Jersey 08691

DESIGNED BY: ––	PPG HUDSON COUNTY, NEW JERSEY
DRAWN BY: A.Y.	SIDEWALL SAMPLE LOCATIONS AND RESULTS SITE 63 1 BURMA ROAD JERSEY CITY, NEW JERSEY
CHECKED BY: K.T.	

APPROVED BY:	DATE:	SCALE:	DRAWING NO.	FIGURE NO.
M.K.	2/23/17	AS SHOWN	146429–D14	3D

Legend

- ADDITIONAL BASE SAMPLE BORING
- ADDITIONAL TEST PIT SAMPLE
- ADDITIONAL SIDEWALL SAMPLE
- SITE 63 SIDEWALL OR BASE SAMPLE
- SITE 65 SIDEWALL SAMPLE
- DELINEATION SOIL BORING
- SAMPLE LOCATION REMOVED DURING EXCAVATION
- G — GAS LINE
- S — STORMWATER LINE
- 16" W — 16" WATER LINE
- SHEET PILE
- LOT 11 (FORMER LOT 4) PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- SUBSURFACE DRAINAGE STRUCTURE
- SPECTRA NATURAL GAS PIPELINE CENTERLINE
- EXCAVATION BOUNDARY
- EDGE OF EXCAVATION TIED INTO CLEAN BACKFILL FROM GAS PIPELINE INSTALLATION
- BOTTOM EXCAVATION CONTOUR
- 30' GRID
- CHAIN-LINK FENCE
- ROAD CURB
- FORMER BUILDING
- GUIDE RAIL

- TC — TOP OF CURB
- BC — BOTTOM OF CURB
- CB — CATCH BASIN
- MH — MANHOLE
- GV — GAS VALVE
- WV — WATER VALVE
- W — WATER MAIN
- G — GAS MAIN
- T — TELEPHONE LINE
- UP — UTILITY POLE
- LP — LIGHT POLE
- HYDRANT
- UTILITY/LIGHT POLE & POLE NUMBER
- UTILITY POLE
- MANHOLE
- RCP — REINFORCED CONCRETE PIPE

FOOTNOTES

1. [a] Elevated detection limit due to dilution required for high interfering element.
2. [b] Exceedance addressed by compliance averaging.
3. ft msl = feet mean sea level
4. ft bgs = feet below ground surface
5. mg/kg = milligram per killigram
6. **Result exceeded**

NOTES AND REFERENCES:

1. LOT 11, BLOCK 21503 WAS PREVIOUSLY KNOWN AS LOT 4, BLOCK 2154.4 AND ALSO LOT 4, BLOCK 1497.
2. MAP ENTITLED "SUBDIVISION OF LOTS 13B AND UNNUMBERED LOT, ALSO KNOWN AS LOT 17A (JERSEY CITY TAX ASSESSOR), BLOCK 2154.4, TAX MAP OF THE CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY", DATED 03/20/2001, LAST REVISED MAY 22, 2001, SCALE 1" = 30', PREPARED BY THE FARALDI GROUP, INC.
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12. BURMA ROAD/MORRIS PESIN DRIVE CONSTITUTE SITE 65.

Location				
Depth (ft bgs)				
Elevation (ft msl)				
	Analyte	**NJDEP NRDCSRS**	**NJDEP RDCSRS**	**NJDEP IGWSSL**
Cr6+	Chromium, Hexavalent (mg/kg)	20	-	-
Cr3	Chromium (mg/kg)	120,000	-	-
Sb	Antimony (mg/kg)	450	31	6
Ni	Nickel (mg/kg)	23,000	1,600	205**
Tl	Thallium (mg/kg)	79	5	3
V	Vanadium (mg/kg)	1,100	390	-

NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
RDCSRS - Residential Direct Contact Soil Remediation Standard (N.J.A.C. 7:26D, 5/12)
IGWSSL - Default Impact to Groundwater Soil Screening Level (N.J.A.C. 7:26D, 11/13)
- = No standard/criteria established for this analyte.
** = Site-Specific calculation using NJDEP Synthetic Precipitation Leaching Procedure (SPLP) Guidance (November 2013).

ANALYTICAL DATA QUALIFIERS:

< The analyte was analyzed for, but was not detected above the stated reporting limit.

* Duplicate analysis not within control limits; indeterminate bias direction.

J The reported result is an estimated value.

NJ The matrix spike sample recoveries in the associated QC sample are outside QC limits; the result is an estimated value with no definitive bias.

NJ- The matrix spike sample recoveries in the associated QC sample are below QC limits; the result is an estimated value with a potential low bias.

CB&I Environmental & Infrastructure, Inc.
200 Horizon Center Boulevard
Trenton, New Jersey 08691

PPG
HUDSON COUNTY, NEW JERSEY

SUPPLEMENTAL SOIL INVESTIGATION
SITE 63
1 BURMA ROAD
JERSEY CITY, NEW JERSEY

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	SCALE:	DRAWING NO.	FIGURE NO.
--	A.Y.	K.Treacy	C.Leavy	5/11/17	AS SHOWN	146429-D15	3E

OFFICE Trenton, NJ
DRAWING NUMBER 146429-D15

Attachment 1

Compliance Averaging Input Data

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_B61R2 (B01R)	PPG63/65_ B06R2	PPG 63/65_B08	PPG63/65_B16 (B09R2/B12R)	PPG63/65_B10	PPG63/65_B13 (B11R)	PPG 63/65_B14	PPG63/65_B19R (B15R2)
Sample Depth (ft bgs):					5.8-6.3	4.8-5.3	4.7-5.2	7.6-8.1	5.2-5.7	6.7-7.2	6-6.5	9.3-9.8
Sample Elevation (ft msl):					1.7-2.2	3-3.5	3-3.5	0-0.5	2.5-3	1-1.5	1-1.5	-2.8 - (-2.3)
Excavated:												
Lab Sample ID:					JB85013-3	JB86481-1	JB72034-6	JB74072-1	JB73044-2	JB73863-2	JB73940-1	JB88436-1
Date Sampled:					12/22/2014	1/14/2015	7/18/2014	8/14/2014	7/31/2014	8/12/2014	8/13/2014	2/18/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis												
Antimony	mg/kg	450	31	6	<2.5	<2.6 NJ-	<2.1	<2.3 NJ-	<2.3 NJ-	<2.5	<2.5 NJ-	<5.4 NJ-
Chromium	mg/kg	120,000	-	-	22.6	89.6 *J	285 NJ+	21.6	136	30.2	318	23.6
Nickel	mg/kg	23,000	1,600	205**	14.8	<5.2	18.7	16 NJ-	17.5	12.9	16.3	16.5
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.1	<1.1	<1.1	<1.3	<1.2	<2.7
Vanadium	mg/kg	1,100	390	NA	22.9	<6.5	34.9	30.6	32.2	23.2	42	32.9
General Chemistry												
Chromium, Hexavalent	mg/kg	20	-	-	3.8 / <0.51	2.4 NJ- / 3.7 NJ-	1.3 NJ-	0.76 *NJ- / 0.48 *NJ-	3.4 *J	<0.51 / 5.5 *NJ-	6.3 NJ- / 2.1 *NJ-	<1.1 NJ- / <1.1 NJ-
Iron, Ferrous	%	-	-	-	1.6	0.45	-	-	-	-	-	1.4
pH	su	-	-	-	8.65	8.2	7.77	8.8	8.25	8.99	10.23	8.48
Redox Potential Vs H2	mv	-	-	-	180	193	259	241	265	165	-98.1	255
Solids, Percent	%	-	-	-	78.4	77.6	86	88.3	84.6	78	82.2	37.3
Sulfide Screen		-	-	-	NEGATIVE	NEGATIVE	-	-	-	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	6,260	26,000	-	-	-	-	-	116,000

Analytical Data Qualifiers:
< - The analyte was not detected at the stated reporting limit.
***** - Duplicate analysis not within control limits; indeterminate bias direction.
J - The reported result is an estimated value.
***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.
EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.
J+ - The result is estimated and may be biased high.
J- -The result is estimated and may be biased low.
R - The reported result is rejected.
Notes:
**-Nickel site specific impact due to groundwater screen level method
calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.
[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

[b] - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

[c] - Multiple injections indicate possible sample non-homogeneity.

[d] - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.
ft msl = feet mean sea level
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
su = standard unit
mv = millivolts
Result exceeded criteria

Sample included in compliance averaging analysis.

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_B20 (B17R)	PPG63/65_B23 (B18R2)	PPG 63/65_B21	PPG63/65_B22	PPG 63/65_B24R	PPG 63/65_B25	PPG 63/65_B26	PPG 63/65_DUP-B26	PPG 63/65_B27R	PPG 63/65_B28
Sample Depth (ft bgs):					7.9-8.4	6.1-6.6	6.4-6.9	6.1-6.6	6.9-7.4	6.7-7.2	7-7.5	7-7.5	8.6-9.1	6.7-7.2
Sample Elevation (ft msl):					-1-(-0.5)	1-1.5	0.5-1	1-1.5	0.5-1.0	0-0.5	-0.3 - 0.2	-0.3-0.2	-1.2 - (-0.7)	0.8-1.3
Excavated:														
Lab Sample ID:					JB74503-3	JB75142-2	JB74503-4	JB75142-1	JB79265-2	JB76736-1	JB76736-2	JB76736-3	JB77761-2	JB77329-2
Date Sampled:					8/20/2014	8/27/2014	8/20/2014	8/27/2014	10/15/2014	9/16/2014	9/16/2014	9/16/2014	9/25/2014	9/23/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis														
Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.3	<2.3 NJ-	<2.2	<4.9 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<4.8 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	57.3 *NJ	1260	15.7 *NJ	34	63.1	21 EJ	19.2 EJ	20.4 EJ	389	69
Nickel	mg/kg	23,000	1,600	205**	15.2 *NJ	14.4 NJ-	13.9 *NJ	14.6 NJ-	12.9	18.1	14.7	13.6	11.3	16.5
Thallium	mg/kg	79	5	3	<1.2	<1.2	<1.1	<1.1	<2.5	<1.2	<1.2	<1.2	<2.4	<1.1
Vanadium	mg/kg	1,100	390	NA	26.4	36.3 NJ-	22	33.1 NJ-	24.8	27.4 EJ	25.1 EJ	24.8 EJ	42.3	29
General Chemistry														
Chromium, Hexavalent	mg/kg	20	-	-	2.6 *NJ- / <0.46 NJ-	0.79 NJ- / 7.2 NJ-	0.69 *NJ- / <0.46 NJ-	1.5 NJ- / 0.8 NJ-	<0.99 NJ+ / 2.2	<0.46 NJ-	<0.48 NJ-	<0.47 NJ-	2.0 NJ-	0.95 *NJ+
Iron, Ferrous	%	-	-	-	-	0.97	-	-	-	-	-	-	-	-
pH	su	-	-	-	9.58	10.48	8.56	9.8	8.5	7.85	8.26	7.93	8.88	9.16
Redox Potential Vs H2	mv	-	-	-	13.6	-95.4	96.7	143	185	201	190	168	41.5	196
Solids, Percent	%	-	-	-	87.1	82.2	86.9	87.8	40.6	86.6	83.5	84.9	40	90
Sulfide Screen		-	-	-	-	NEGATIVE	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:
< - The analyte was not detected at the stated reporting limit.
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Notes:
**-Nickel site specific impact due to groundwater screen level method
calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.
[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

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= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.
ft msl = feet mean sea level
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
su = standard unit
mv = millivolts
Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_B29	PPG 63/65_B30	PPG 63/65_B31	PPG 63/65_B32	PPG 63/65-B33	PPG 63/65-DUP-B33	PPG 63/65-B34	PPG 63/65_B35	PPG 63/65_B36	PPG 63/65_B37	PPG63/65_B38
Sample Depth (ft bgs):					7.8-8.3	5.2-5.8	7.6-8.1	4.8-5.3	0.2-0.7	0.2-0.7	0.6-1.1	4.7-5.2	5.9-6.4	6.2-6.7	0-0.5
Sample Elevation (ft msl):					-0.8 - (-0.3)	2.7-3.3	-0.2-0.3	3.2-3.7	9-9.5	9-9.5	7.9-8.4	2.8-3.3	1.6-2.1	1.3-1.8	9-9.5
Excavated:															
Lab Sample ID:					JB77761-1	JB79068-1	JB79265-1	JB79265-3	JB79649-3	JB79649-13	JB79649-6	JB80083-1	JB80083-2	JB80083-3	JB80262-2
Date Sampled:					9/25/2014	10/13/2014	10/15/2014	10/15/2014	10/20/2014	10/20/2014	10/20/2014	10/24/2014	10/24/2014	10/24/2014	10/28/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis															
Antimony	mg/kg	450	31	6	2.9	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.8 NJ-	<2.5 NJ-	<2.5 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	3640	120	43.2	148	96.5	109	56	22.7	2110	18.3	55.4 NJ+
Nickel	mg/kg	23,000	1,600	205**	12.7	11.2	13.1	14.1	21.5	21.4	33.9	13.8	18.6	14.2	22.9
Thallium	mg/kg	79	5	3	<6.3 [a]	<1.1	<1.2	<1.2	<1.1	<1.1	<1.1	<1.4	<1.2	<1.3	<1.1
Vanadium	mg/kg	1,100	390	NA	62.9	19	25.2	13.5	28.9	27.7	54.4	20.4	48	22.6	27.4
General Chemistry															
Chromium, Hexavalent	mg/kg	20	-	-	0.6 NJ-	5.6	4.9 NJ+ / 0.84	14.4 NJ+ / 13	2.5 *NJ- / 1.3 *NJ-	1.9 *NJ- / 1 *NJ-	1.9 *NJ- / 3.1 *NJ-	0.56 NJ- / 1.4 NJ-	19 NJ- / 2.3 NJ-	<0.51 NJ-	4.7 NJ- / 4 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-
pH	su	-	-	-	9.72	7.93	9.61	7.91	7.54	6.91	7.64	8.46	9.32	8.41	7.7
Redox Potential Vs H2	mv	-	-	-	-86.7	255	137	278	616	547	522	231	152	183	298
Solids, Percent	%	-	-	-	78.5	86.9	82.6	81.2	89.5	90.4	93.5	73.2	81.5	78.2	89.4
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	NEGATIVE	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	11,700	-	-	-

Analytical Data Qualifiers:

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Notes:

**-Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_B39	PPG63/65_B40	PPG 63/65_B41	PPG 63/65_B42	PPG 63/65_DUP-B42	PPG 63/65_B43R	PPG63/65_B44R	PPG 63/65_B45	PPG 63/65_B46	PPG 63/65_B47	PPG 63/65_B48
Sample Depth (ft bgs):					1-1.5	1.4-1.9	7.1-7.6	8.4-8.9	8.4-8.9	8.7-9.2	4-4.5	4-4.5	4.2-4.7	5.1-5.6	3.8-4.3
Sample Elevation (ft msl):					8-8.5	7.7-8.2	0.3-0.8	-1-(-0.5)	-1-(-0.5)	-0.8 - (-1.3)	3.5-4	3.5-4	3.3-3.8	2.8-3.3	3.7-4.2
Excavated:															
Lab Sample ID:					JB80262-3	JB80262-5	JB80445-2	JB80445-3	JB80445-5	JB80851-5	JB82305-1	JB80538-4	JB80538-6	JB80640-1	JB80640-3
Date Sampled:					10/28/2014	10/28/2014	10/29/2014	10/29/2014	10/29/2014	11/4/2014	11/19/2014	10/30/2014	10/30/2014	10/31/2014	10/31/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis															
Antimony	mg/kg	450	31	6	<2.1 NJ-	<2.1 NJ-	<2.7 NJ-	<5.6 NJ-	<2.3 NJ-	<6.9 NJ-[a]	<2.0 NJ-	<2.4 NJ-	<2.5 NJ-	<2.2	<2.4
Chromium	mg/kg	120,000	-	-	95.1 NJ+	122 NJ+	2920 NJ-	56.9 NJ-	15.9 NJ-	128 NJ-	17.7	16.2	22.6	367 NJ+	649 NJ+
Nickel	mg/kg	23,000	1,600	205**	46.5	50.8	12.6	30.4 J	9 J	<14	13.5	12.7	14.6	15.2	14.4
Thallium	mg/kg	79	5	3	<1.1	<1.0	<1.3	<2.8	<1.2	<3.4 [a]	<0.98	<1.2	<1.2	<1.1	<1.2
Vanadium	mg/kg	1,100	390	NA	41.8	43.7	41.8	44.2 J	16.2 J	22.3	27.3	21.3	21.6	32.9	32.8
General Chemistry															
Chromium, Hexavalent	mg/kg	20	-	-	2.6 NJ- / 1.6 NJ-	4.5 NJ- / 3.8 NJ-	14.3 NJ- / 5.1 NJ-	2 NJ- / <1.2 NJ-	<0.49 NJ- / 2.4 NJ-	<1.4	1.4	1.3 NJ / <0.48 *NJ-	1.8 NJ- / <0.48 *NJ-	5.7 NJ-/ 3 NJ-	8 NJ- / 12.5 NJ-
Iron, Ferrous	%	-	-	-	0.52	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.48	7.76	9.67	8.8	8.54	7.74	8.2	7.88	7.95	8.62	8.01
Redox Potential Vs H2	mv	-	-	-	290	301	52.9	93.3	184	259	167	141	139	166	97.7
Solids, Percent	%	-	-	-	92	91.2	74.6	34.4	81.2	28.2	73.4	82.9	83.3	84.9	81.6
Sulfide Screen		-	-	-	NEGATIVE	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	32,800	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

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Notes:

**-Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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ft msl = feet mean sea level

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mg/kg = milligram per kilogram

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Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_B49	PPG 63/65_B50R	PPG 63/65_B51	PPG 63/65_B52	PPG 63/65_B53	PPG 63/65_B55	PPG 63/65_B56	PPG 63/65_B57	PPG 63/65_B58	PPG 63/65_B59	PPG 63/65_B60
Sample Depth (ft bgs):					3.9-4.4	2-2.5	0-0.5	4.2-4.7	3.5-4	1.5-2	3.2-3.7	1.9-2.4	0.5-1	1.7-2.2	2.1-2.6
Sample Elevation (ft msl):					4.3-4.8	6-6.5	7.2-7.7	3.3-3.8	4-4.5	7.2-7.7	4.9-5.4	5.3-5.8	6.7-7.2	5.5-6.0	5.1-5.6
Excavated:															
Lab Sample ID:					JB80851-4	JB81729-5	JB80992-4	JB80992-5	JB80992-6	JB81497-1	JB81729-3	JB82085-4	JB82085-5	JB82617-2	JB82617-3
Date Sampled:					11/4/2014	11/13/2014	11/5/2014	11/5/2014	11/5/2014	11/10/2014	11/12/2014	11/18/2014	11/18/2014	11/24/2014	11/24/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis															
Antimony	mg/kg	450	31	6	<2.4 NJ-	<2.2 NJ-	<2.5 NJ-	<2.6 NJ-	<2.4 NJ-	<2.2 NJ-	<2.7 NJ-	<2.6 NJ-	<2.2 NJ-	<2.6 NJ-	<2.1 NJ-
Chromium	mg/kg	120,000	-	-	15.2 NJ-	99.5 *NJ	124 NJ-	123 NJ-	10.8 NJ-	49.3 ENJ+	19.5 *NJ	129 *NJ	99.9 *NJ	1060 NJ+	31.6 NJ+
Nickel	mg/kg	23,000	1,600	205**	11.4	59.2 NJ-	57	15.3	10.5	10	12.8 NJ-	26.2 NJ-	13.3 NJ-	30.9	16.3
Thallium	mg/kg	79	5	3	<1.2	<1.1 NJ-	<1.2	<1.3	<1.2	<1.1	<1.3 NJ-	<1.3 NJ-	<1.1 NJ-	<1.3	<1.0
Vanadium	mg/kg	1,100	390	NA	22	25.7 NJ-	42.3	23.7	14.3	17.5 EJ	23.6 NJ-	35.6 NJ-	20.6 NJ-	59.2	18.7
General Chemistry															
Chromium, Hexavalent	mg/kg	20	-	-	<0.47	0.94 *NJ- / 0.88 NJ-	0.49 *NJ- / 2.4 NJ-	2.1 *NJ- / 1.4 NJ-	4.4 *NJ- / 1.1NJ-	2.4 NJ- / 4.6 NJ-	<0.53 *NJ-/ <0.53 NJ-	<0.53	8.5	16.2	<0.43
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.89	8.6	8.24	8.3	8.29	9.22	7.24	8.59	9.02	8.44	7.56
Redox Potential Vs H2	mv	-	-	-	233	272	277	107	121	286	119	338	276	288	284
Solids, Percent	%	-	-	-	85.2	93.2	84.3	77	82.3	89.3	76	75.3	88	74.8	93.6
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected.

Notes:

**-Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

[b] - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

[c] - Multiple injections indicate possible sample non-homogeneity.

[d] - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_DUP-B60	PPG63/65_B61R2 (B01R)	PPG63/65_B62	PPG63/65_B63	PPG63/65_B64R#	PPG63/65_DUP-B64R	PPG 63/65_B66	PPG 63/65_B68	PPG63/65_B69
Sample Depth (ft bgs):					2.1-2.6	5.8-6.3	2.8-3.3	2.4-2.9	9.6-10.1	9.6-10.1	8.1-8.6	6.5-7	5.5-6
Sample Elevation (ft msl):					5.1-5.6	1.7-2.2	4.8-5.3	4.8-5.3	-3.1 - (-2.6)	-3.1 - (-2.6)	0.4- (-0.1)	0.1-(-0.4)	2.5-3
Excavated:													
Lab Sample ID:					JB82617-4	JB85013-3	JB83152-5	JB83152-7	JB85013-4	JB85013-5	JB84204-2	JB84204-3	JB84487-2
Date Sampled:					11/24/2014	12/22/2014	12/3/2014	12/3/2014	12/23/2014	12/23/2014	12/12/2014	12/12/2014	12/17/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis													
Antimony	mg/kg	450	31	6	<2.6 NJ-	<2.5 NJ-	<3.0 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-	<2.8 NJ-	<2.5 NJ-
Chromium	mg/kg	120,000	-	-	22.7 NJ+	22.6	905	68.9	12.5	19.3	138	305	84.9
Nickel	mg/kg	23,000	1,600	205**	15.9	14.8	18.6	20	11	10.1	13.7	26.9	17.7
Thallium	mg/kg	79	5	3	<1.3	<1.2	<1.5	<1.1	<1.1	<1.2	<1.3	<1.4	<1.2
Vanadium	mg/kg	1,100	390	NA	16.7	22.9	34.4	27.1	19.6	20.8	28	33.5	30.6
General Chemistry													
Chromium, Hexavalent	mg/kg	20	-	-	<0.52	3.8 *NJ- / <0.51 NJ-	<0.61 NJ- / 2.2 *NJ-	0.72 NJ- / 1.1 *NJ-	<0.46*NJ- / <0.46 NJ-	0.61 *NJ- / <0.46	2.4 NJ+/ <0.50 NJ-	<0.57 N / <0.57 NJ-	<0.50 *NJ
Iron, Ferrous	%	-	-	-	-	1.6	-	-	-	-	-	-	-
pH	su	-	-	-	7.52	8.65	7.43	7.13	8.54	7.63	7.31	8.42	7.37
Redox Potential Vs H2	mv	-	-	-	282	180	251	205	174	183	250	266	65.9
Solids, Percent	%	-	-	-	76.4	78.4	66.1	84	86.8	86.3	80.8	70.2	80.5
Sulfide Screen		-	-	-	-	NEGATIVE	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	6,260	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

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Notes:

**-Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

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[d] - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_B71	PPG63/65_B72	PPG63/65_B74#	PPG63/65_B75R	PPG63/65_B76	PPG63/65_B77R	PPG63/65_B78	PPG63/65_B79	PPG63/65_B80	PPG63/65_B81
Sample Depth (ft bgs):					4.2-4.7	3.7-4.2	9.8-10.3	2.4-2.9	7.5-8	7.6-8.1	1.7-2.2	5.1-5.6	5.1-5.6	2.1-2.6
Sample Elevation (ft msl):					3.9-4.4	4.3-4.8	-2.9-(-2.4)	5.7-6.2	-0.7-(-0.2)	-0.5-0.0	6.2-6.7	1-1.5	3-3.5	5.8-6.3
Excavated:														
Lab Sample ID:					JB85013-1	JB85013-2	JB85287-1	JB86000-2	JB85756-1	JB86481-2	JB85840-2	JB86000-3	JB86000-4	JB86141-5
Date Sampled:					12/22/2014	12/22/2014	12/30/2014	1/8/2015	1/5/2015	1/14/2015	1/7/2015	1/9/2015	1/9/2015	1/12/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis														
Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.4 NJ-	<3.0 NJ-	<2.6 NJ-	<2.4 NJ-	<2.3 NJ-	<2.6 NJ-	<2.4 NJ-	<2.5 NJ-	<2.7 NJ-
Chromium	mg/kg	120,000	-	-	29.8	14.8	630	24.4	30.2	56.3 *J	65.4	8.8	12	20.8
Nickel	mg/kg	23,000	1,600	205**	14.2	12.8	9.7	15.5	14.8	12.1	28.8	8.8	11.6	14.3
Thallium	mg/kg	79	5	3	<1.1	<1.2	<1.5	<1.3	<1.2	<1.2	<1.3	<1.2	<1.2	<1.4
Vanadium	mg/kg	1,100	390	NA	29	22.9	16.8	33.9	31 EJ	27.2	53.7 EJ	9.9	18.6	16.1
General Chemistry														
Chromium, Hexavalent	mg/kg	20	-	-	0.73 *NJ- / <0.47 NJ-	<0.50 *NJ-/ <0.50NJ-	<0.59 NJ	<0.51NJ-	<0.47 NJ- / 0.56 NJ-	2.4 NJ- / 0.9 NJ-	<0.55 *NJ- / 0.58 *NJ-	<0.48 *NJ-	<0.49 *NJ-	<0.55 *NJ
Iron, Ferrous	%	-	-	-	-	-	-	-	1.4 [c]	-	-	-	-	-
pH	su	-	-	-	7.5	8.15	8.33	8.46	7.74	8.79	7.41	7.92	7.82	7.65
Redox Potential Vs H2	mv	-	-	-	184	216	308	202	159	166	245	231	183	344
Solids, Percent	%	-	-	-	84.8	80.5	67.4	79.1	84.9	88	72.6	83.1	82	73.2
Sulfide Screen		-	-	-	-	-	-	-	NEGATIVE [d]	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	933	-	-	-	-	-

Analytical Data Qualifiers:

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Notes:

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= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_B84	PPG63/65_B89	PPG63/65_B90	PPG63/65_B91	PPG63/65_B92	PPG63/65_B93	PPG63/65_B94	PPG63/65_B95	PPG63/65_B97	PPG63/65_B104	PPG63/65_B105
Sample Depth (ft bgs):					4.1-4.6	2.8-3.3	3.1-3.6	3.1-3.6	3.6-4.1	2.6-3.1	1.4-1.9	3.9-4.4	1.1-1.6	1.9-2.4	1.6-2.1
Sample Elevation (ft msl):					3.7-4.2	5.8-6.3	5.5-6.0	5-5.5	5-5.5	6-6.5	7.2-7.7	4.7-5.2	6.2-6.7	6.7-7.2	6.3-6.8
Excavated:															
Lab Sample ID:					JB86669-1	JB87496-1	JB87496-2	JB87496-3	JB87595-1	JB87701-1	JB87701-2	JB87890-1	JB87981-4	JB88725-4	JB88785-2
Date Sampled:					1/16/2015	2/2/2015	2/3/2015	2/3/2015	2/4/2015	2/5/2015	2/5/2015	2/6/2015	2/10/2015	2/24/2015	2/25/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis															
Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.5 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.6 NJ-	<2.8 NJ-	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	15.9	22.1	27.5	13.4	12.8	15.9	19.3	55.3	21.9	72.6	22.6
Nickel	mg/kg	23,000	1,600	205**	12.1	17.5	14.4	10.5	10.7	13	16.7	11.3	33.1	31.1	10.8
Thallium	mg/kg	79	5	3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	<1.2	<1.2	<1.3	<1.4	<1.3
Vanadium	mg/kg	1,100	390	NA	17	27.2	37.6	18.9	17.3	24.6	28.6	15.4	26.6	55.6	18.3
General Chemistry															
Chromium, Hexavalent	mg/kg	20	-	-	<0.47 NJ- / <0.47 NJ-	0.74 NJ- / 0.55	<0.46 NJ- / 0.92	<0.51 NJ- / 0.91	<0.50 NJ- / 0.5NJ-	<0.44	<0.46	6.7 *NJ- / 10.2 NJ-	<0.50	<0.57 NJ- / 0.63 NJ-	<0.51 NJ- / 4.7 NJ-
Iron, Ferrous	%	-	-	-	0.57	-	-	-	0.87	-	-	-	-	0.72	-
pH	su	-	-	-	8	7.22	8.18	7.21	7.13	7.89	7.86	7.9	7.03	8.04	8.09
Redox Potential Vs H2	mv	-	-	-	356	222	230	207	205	350	203	419	203	365	223
Solids, Percent	%	-	-	-	84.7	82.9	87.4	78.8	79.4	90.3	86.4	82.6	80.3	69.8	78.6
Sulfide Screen		-	-	-	NEGATIVE	-	-	-	NEGATIVE	-	-	-	-	NEGATIVE	-
Total Organic Carbon	mg/kg	-	-	-	4,050	-	-	-	20,600	-	-	-	-	125,000	-

Analytical Data Qualifiers:

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Notes:

**-Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

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= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_B106	PPG63/65_B107	PPG 63/65_B108	PPG 63/65_B109	PPG63/65_B110	PPG63/65_B111R	PPG63/65_B112R	PPG63/65_B113	PPG63/65_B114	PPG63/65_B115
Sample Depth (ft bgs):					5.5-6	1.5-2	4.3-4.8	4.1-4.6	3.3-3.8	4.5-5	5.2-5.7	4.7-5.2	5.3-5.8	6.4-6.9
Sample Elevation (ft msl):					5-5.5	8-8.5	5-5.5	5.2-5.7	5.5-6	4.2-4.7	3.2-3.7	3.7-4.2	2.7-3.2	2.4-2.9
Excavated:														
Lab Sample ID:					JB92520-1	JB92520-2	JB92632-1	JB92632-4	JB92766-1	JB93212-1	JB93212-2	JB92858-4	JB92858-7	JB93021-2
Date Sampled:					4/15/2015	4/15/2015	4/16/2015	4/16/2015	4/17/2015	4/24/2015	4/24/2015	4/21/2015	4/21/2015	4/22/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis														
Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.2 NJ-	<2.4 NJ-	<2.4 NJ-	<2.7 NJ-	<2.7 NJ-	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	24.2 EJ	155 EJ	35.1 EJ	29.1 EJ	18.1	13.6	14.8	14.1 ENJ+	13.8 ENJ+	11.2
Nickel	mg/kg	23,000	1,600	205**	16.6	19.5	18	23	14.9	11.1	11.4	12.9	13.5	10.1
Thallium	mg/kg	79	5	3	<1.1	<1.2	<1.1	<1.1	<1.1	<1.2	<1.2	<1.3	<1.3	<1.3
Vanadium	mg/kg	1,100	390	NA	27.4	45.2	41.3	47.5	28.1	19.9	21.1	19.3 EJ	18 EJ	16
General Chemistry														
Chromium, Hexavalent	mg/kg	20	-	-	<0.46 NJ- / 0.52 NJ-	6.7 NJ- / 14.4 NJ-	0.95	1.1	<0.46 *NJ- / <0.46 NJ-	<0.49 NJ- / <0.49 NJ-	<0.49 NJ- / <0.49 NJ-	<0.52 NJ- / 0.53 NJ-	0.71 NJ- / <0.55 NJ-	<0.51NJ- / <0.51 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	0.9	-	-	0.81
pH	su	-	-	-	8.27	8.08	6.87	6.71	7.93	7.66	7.61	7.21	6.85	7
Redox Potential Vs H2	mv	-	-	-	225	273	258	233	325	226	219	198	236	195
Solids, Percent	%	-	-	-	86.8	85.9	85.4	85.5	86.8	82	81.7	77.5	72.9	78.8
Sulfide Screen		-	-	-	-	-	-	-	-	-	NEGATIVE	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	1,440	-	-	4,960

Analytical Data Qualifiers:

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ft msl = feet mean sea level

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Result exceeded criteria

Table 2A
Base Post-Excavation Soil Samples (2014-2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_B116	PPG 63/65_B117	PPG63/65_B118	PPG63/65_B119	PPG63/65_B120	PPG63/65_B121
Sample Depth (ft bgs):					6.4-6.9	5.3-5.8	3.5-4	3.7-4.2	3.7-4.2	2.2-2.7
Sample Elevation (ft msl):					2.8-3.3	4.2-4.7	7-7.5	5.8-6.3	6.8-7.3	4.8-5.3
Excavated:										
Lab Sample ID:					JB93021-4	JB93163-3	JB93547-2	JB93547-6	JB95015-2	JC15057-1
Date Sampled:					4/22/2015	4/23/2015	4/29/2015	4/29/2015	5/19/2015	2/29/2016
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis										
Antimony	mg/kg	450	31	6	<2.4 NJ-	<2.6 NJ-	<2.3	<2.5	<2.5	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	18.4	24.1 NJ-	42.7	111	12.6	26.7 NJ+
Nickel	mg/kg	23,000	1,600	205**	14.4	26.6 ENJ-	19.2 EJ	20.3 EJ	10.2	13.2
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.1	<1.3	<1.2	<1.1
Vanadium	mg/kg	1,100	390	NA	24.3	27.7 ENJ-	44.6	30.6	13	14.6
General Chemistry										
Chromium, Hexavalent	mg/kg	20	-	-	<0.50 NJ- / <0.50 NJ-	<0.53 NJ- / <0.53 NJ-	<0.46 NJ- / 2.4 *NJ-	0.77 NJ- / 0.49 *NJ-	<0.49	2 NJ- / 2.1 NJ-
Iron, Ferrous	%	-	-	-	-	-	0.76	-	12.6	0.76 [b]
pH	su	-	-	-	7.17	7.82	7.82	7.94	7.91	7.72
Redox Potential Vs H2	mv	-	-	-	195	177	289	250	321	343
Solids, Percent	%	-	-	-	80.5	75.2	86.3	82.4	82.3	87.8
Sulfide Screen		-	-	-	-	-	NEGATIVE	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	30,000 J	-	-	3,970 [c]

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- -The result is estimated and may be biased low.

R - The reported result is rejected.

Notes:

**-Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

[b] - The ferrous iron test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

[c] - Multiple injections indicate possible sample non-homogeneity.

[d] - The sulfide screen test was analyzed after completion of Cr6 testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr6 recoveries.

= Sample deemed usable due to acceptable insoluble recovery and secondary analytics.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW04	PPG 63/65_SW22	PPG 63/65_SW23	PPG 63/65_SW25R	PPG 63/65-SW26	PPG 63/65_SW27R2	PPG 63/65-SW28
Sample Depth (ft bgs):					1.5-2	4.8-5.3	3.8-4.3	1.5-2.0	0.3-0.8	1.2-1.7	0.2-0.7
Sample Elevation (ft msl):					6-6.5	3.2-3.7	4.2-4.7	6.5-7	14.9-15.4	8-8.5	8-8.5
Lab Sample ID:					JB69910-8	JB79068-2	JB79068-3	JB80992-2	JB79649-1	JB81729-6	JB79649-4
Date Sampled:					6/19/2014	10/13/2014	10/13/2014	11/5/2014	10/20/2014	11/13/2014	10/20/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis											
Antimony	mg/kg	450	31	6	<2.1 NJ-	<2.3 NJ-	3.6 NJ-	<2.5 NJ-	<2.1 NJ-	<2.6 NJ-	2.9 NJ-
Chromium	mg/kg	120,000	-	-	40.4	9.2	30.8	123 NJ-	24.4	377 *NJ	160
Nickel	mg/kg	23,000	1,600	205**	12.5	14	31.8	24.6	16.7	50.6 NJ-	25.5
Thallium	mg/kg	79	5	3	<1.1	<1.2	<1.2	<1.2	<1.1	<1.3 NJ-	<1.1
Vanadium	mg/kg	1,100	390	NA	21.1	12	22.6	32	22.9	54.7 NJ-	39.1
General Chemistry											
Chromium, Hexavalent	mg/kg	20	-	-	0.45	0.62	1.6	2.8 *NJ- / 1.5 NJ-	2.4 *NJ- / 1.7 *NJ-	7.2 *NJ- / <0.51 NJ-	1.1 *NJ- / 2.9 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	1.1	-	-	-
pH	su	-	-	-	8.5	7.51	8.17	8.16	7.94	7.73	7.75
Redox Potential Vs H2	mv	-	-	-	376	351	315	289	509	260	652
Solids, Percent	%	-	-	-	90	86	82.8	81.9	93.2	78.9	89.3
Sulfide Screen		-	-	-	-	-	-	NEGATIVE	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	53,400	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65-SW29	PPG 63/65-SW30	PPG 63/65-SW31	PPG 63/65-SW32	PPG 63/65-SW33	PPG 63/65-SW34	PPG 63/65-SW35
Sample Depth (ft bgs):					0.4-0.9	0-0.5	0.5-1	0.2-0.7	1.5-2	1.5-2	1.2-1.7
Sample Elevation (ft msl):					7.9-8.4	9-9.5	8.6-9.1	10.3-10.8	9-9.5	9-9.5	9.3-9.8
Lab Sample ID:					JB79649-5	JB79649-7	JB79649-8	JB79649-9	JB79649-10	JB79649-11	JB79649-12
Date Sampled:					10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014	10/20/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis											
Antimony	mg/kg	450	31	6	<2.3	<2.5 NJ-	<2.4 NJ-	<2.3 NJ-	4.4 NJ-	<2.3 NJ-	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	105	190	287	146	79.3	74.3	23
Nickel	mg/kg	23,000	1,600	205**	38.2	41.7	50.3	49	96.3	26.1	20.4
Thallium	mg/kg	79	5	3	<1.2	<1.3	<1.2	<1.2	<3.1[a]	<1.2	<1.1
Vanadium	mg/kg	1,100	390	NA	45.9	35.6	47.1	40.5	42	33.5	25.7
General Chemistry											
Chromium, Hexavalent	mg/kg	20	-	-	0.49 *NJ- / 1 *NJ-	2.0 *NJ- / <0.51 *NJ-	3.6 *NJ- / 1.6 *NJ-	0.85 *NJ- / <0.46 *NJ-	2.4 *NJ- / 1.8 *NJ-	2.7 *NJ- / 3 *NJ-	1.6 *NJ-/ 1.2 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.39	6.9	7.61	6.93	7.64	7.11	7.17
Redox Potential Vs H2	mv	-	-	-	562	551	482	559	563	524	514
Solids, Percent	%	-	-	-	86	78.4	84.8	86.7	93	83.8	91.4
Sulfide Screen		-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW37	PPG 63/65_SW38R	PPG63/65_SW39	PPG 63/65_SW40	PPG 63/65_SW43	PPG 63/65_SW44	PPG 63/65_SW50
Sample Depth (ft bgs):					0.2-0.7	1.1-1.6	0.9-1.4	1.7-2.2	3.3-3.8	2.8-3.3	2.8-3.3
Sample Elevation (ft msl):					8.8-9.3	7.3-7.8	8.2-8.7	6.3-6.8	4.2-4.7	4.7-5.2	4.9-5.4
Lab Sample ID:					JB80262-4	JB81368-1	JB80262-7	JB80445-1	JB80538-7	JB80640-2	JB81368-3
Date Sampled:					10/28/2014	11/10/2014	10/28/2014	10/29/2014	10/30/2014	10/31/2014	11/10/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis											
Antimony	mg/kg	450	31	6	<2.2 NJ-	2.8 NJ-	<2.1 NJ-	<2.2 NJ-	<2.4 NJ-	<2.3	<2.5 NJ-
Chromium	mg/kg	120,000	-	-	232 NJ+	78.6 ENJ+	27.9 NJ+	36.6 NJ-	16.5	62.4 NJ+	71.3 ENJ+
Nickel	mg/kg	23,000	1,600	205**	40.2	59.2	18.5	22.9	14.8	24.9	15
Thallium	mg/kg	79	5	3	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.3
Vanadium	mg/kg	1,100	390	NA	37.4	38.6 EJ	21.9	18.6	22.6	45.9	29.5 EJ
General Chemistry											
Chromium, Hexavalent	mg/kg	20	-	-	1.9 NJ-/ 4 NJ-	3.5 NJ- / 5.1 NJ-	1.3 NJ- / 1.6 NJ-	3.3 NJ- / 4.1 NJ-	0.66 NJ- / <0.48 *NJ-	2.2 NJ- / 1.3 NJ-	4.4 NJ- / 15 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	0.31
pH	su	-	-	-	7.53	8.16	7.52	8.38	7.63	8.67	9.25
Redox Potential Vs H2	mv	-	-	-	307	336	302	368	178	198	227
Solids, Percent	%	-	-	-	84.9	90.1	90.1	89.5	83.2	87.7	77
Sulfide Screen		-	-	-	-	-	-	-	-	-	NEGATIVE
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	9,400

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG 63/65_SW56	PPG 63/65_SW57	PPG63/65_SW58	PPG63/65_SW59	PPG63/65_SW60	PPG63/65_SW61R	PPG63/65_SW64
Sample Depth (ft bgs):					0.6-1.1	0.7-1.2	1-1.5	0-0.5	0-0.5	0.4-0.9	1.9-2.4
Sample Elevation (ft msl):					7.5-8.0	6.5-7	6.2-6.7	7.2-7.7	6.5-7	6.8-7.3	5.3-5.8
Lab Sample ID:					JB81729-2	JB82085-1	JB82085-2	JB82085-3	JB82305-2	JB83152-6	JB83152-4
Date Sampled:					11/12/2014	11/18/2014	11/18/2014	11/18/2014	11/20/2014	12/3/2014	12/3/2014
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis											
Antimony	mg/kg	450	31	6	<2.1 NJ-	<2.3 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.3 NJ-	<3.4 NJ-
Chromium	mg/kg	120,000	-	-	185 *NJ	25 *NJ	48.5 *NJ	39.8 *NJ	33.2	86.8	228
Nickel	mg/kg	23,000	1,600	205**	22.1 NJ-	15.8 NJ-	13.8 NJ-	11.1 NJ-	7.8	15.7	28.6
Thallium	mg/kg	79	5	3	<1.0 NJ-	<1.1 NJ-	<1.2 NJ-	<1.1 NJ-	<1.1	<1.1	<1.7
Vanadium	mg/kg	1,100	390	NA	33.5 NJ-	23.5 NJ-	19.6 NJ-	18.6 NJ-	8	23.5	73.6
General Chemistry											
Chromium, Hexavalent	mg/kg	20	-	-	4.5 *NJ- / 2.1NJ-	2.1	2.4	2.7	3.4	2.5 NJ- / 3.9 *NJ-	2.2 NJ- / 6.8 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	2	-
pH	su	-	-	-	8.4	8.16	8.66	8.54	8.68	7.49	7.18
Redox Potential Vs H2	mv	-	-	-	248	115	318	319	269	303	281
Solids, Percent	%	-	-	-	91.9	86.3	83.6	88.7	89.9	85	61
Sulfide Screen		-	-	-	-	-	-	-	-	NEGATIVE	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	42,000	-

Analytical Data Qualifiers:

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW72R	PPG63/65_SW75	PPG63/65_SW76	PPG63/65_SW92	PPG63/65_SW93	PPG63/65_SW107	PPG63/65_SW110	PPG63/65_SW111
Sample Depth (ft bgs):					0.7-1.2	0.3-0.8	3.8-4.3	0.3-0.8	4.1-4.6	0.2-0.7	0-0.5	0.2-0.7
Sample Elevation (ft msl):					6.5-7.0	7.8-8.3	4.3-4.8	9.2-9.7	2.3-2.8	8.8-9.3	10.5-11	10.3-10.7
Lab Sample ID:					JB86243-1	JB86000-1	JB86141-1	JB87890-2	JB87890-4	JB88785-1	JB88913-3	JB88913-4
Date Sampled:					1/13/2015	1/8/2015	1/9/2015	2/6/2015	2/9/2015	2/25/2015	2/26/2015	2/26/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis												
Antimony	mg/kg	450	31	6	<2.1 NJ-	<2.3 NJ-	<2.4 NJ-	<2.2 NJ-	<2.5 NJ-	<2.1 NJ-	<2.2 NJ-	<2.1 NJ-
Chromium	mg/kg	120,000	-	-	293	248	1,200	201	16.3	13.2	54.2	26.9
Nickel	mg/kg	23,000	1,600	205**	26.6	26.5	18.1	25.3	15.5	11.2	16.2	13.1
Thallium	mg/kg	79	5	3	<1.1	<1.2	<1.2	<1.1	<1.3	<1.1	<1.1	<1.1
Vanadium	mg/kg	1,100	390	NA	51.3	43.3	52.1	45.9	17.9	16.2	35.7	39.5
General Chemistry												
Chromium, Hexavalent	mg/kg	20	-	-	8.3 *NJ- / 7.4 *NJ-	1.7 *NJ-	<0.47 *NJ	4.7 *NJ- / 19.5 NJ-	<0.51 *NJ- / <0.51 NJ-	0.51 NJ- / 0.52 NJ-	4.7 NJ- / 3.3	1.1 NJ- / 0.71
Iron, Ferrous	%	-	-	-	-	-	-	0.56	-	0.55	-	-
pH	su	-	-	-	7.85	7.02	9.09	7.6	8.06	8.14	7.02	8.81
Redox Potential Vs H2	mv	-	-	-	285	305	318	460	231	204	414	339
Solids, Percent	%	-	-	-	88.8	83.5	84.6	88.4	79	94.2	87.2	91.3
Sulfide Screen		-	-	-	-	-	-	NEGATIVE	-	NEGATIVE	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	43,100	-	7,280	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

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N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW115	PPG63/65_SW116	PPG63/65_SW117	PPG63/65_SW118	PPG63/65_SW119	PPG63/65_SW120	PPG63/65_SW121R	PPG63/65_SW122
Sample Depth (ft bgs):					0.5-1	2.8-3.3	0.2-0.7	3.3-3.8	3.5-4.0	2.5-3.0	2.3-2.8	0.8-1.3
Sample Elevation (ft msl):					7-7.5	7.2-7.7	10.8-11.3	6-6.5	5.8-6.3	6.8-7.3	8.2-8.7	8-8.5
Lab Sample ID:					JB89093-2	JB92520-3	JB92520-4	JB92632-2	JB92632-3	JB92632-5	JB93363-1	JB92766-3
Date Sampled:					2/27/2015	4/15/2015	4/15/2015	4/16/2015	4/16/2015	4/16/2015	4/27/2015	4/17/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis												
Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.2 NJ-	<2.4 NJ-	<2.3 NJ-	<2.5 NJ-	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	332	26.7 EJ	34.9 EJ	16 EJ	24.1 EJ	19.4 EJ	23.3	58.3
Nickel	mg/kg	23,000	1,600	205**	33.6	16.5	17.4	11.9	19.4	14.7	20.7	14
Thallium	mg/kg	79	5	3	<1.1	<1.1	<1.2	<1.1	<1.2	<1.2	<1.3	<1.3
Vanadium	mg/kg	1,100	390	NA	51	33.4	32.3	25.8	36.8	15.5	30.3	28.2
General Chemistry												
Chromium, Hexavalent	mg/kg	20	-	-	8.2 *NJ- / 12.7 *NJ-	0.65 NJ- / 1.3 NJ-	1.5 NJ- / 0.53 NJ-	<0.45	3.2	1	0.58 NJ- / 0.66 *NJ-	0.58 *NJ- / 1.1 NJ-
Iron, Ferrous	%	-	-	-	-	-	0.27	-	-	-	-	-
pH	su	-	-	-	7.96	7.37	7.79	7.11	6.86	7.66	8.85	7.74
Redox Potential Vs H2	mv	-	-	-	327	280	517	304	259	264	309	363
Solids, Percent	%	-	-	-	85.8	87.6	85.3	88.4	87.1	89.6	81.4	76.4
Sulfide Screen		-	-	-	-	-	NEGATIVE	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	102,000	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW123	PPG63/65_SW124	PPG63/65_SW125	PPG63/65_SW126	PPG63/65_SW127	PPG63/65_SW128R	PPG63/65_SW129
Sample Depth (ft bgs):					0.5-1.0	0.6-1.1	5-5.5	2.8-3.3	4.5-5	2.7-3.2	5-5.5
Sample Elevation (ft msl):					7.7-8.2	7.6-8.1	3.3-3.8	4.7-5.2	4-4.5	9.8-10.3	3.1-3.6
Lab Sample ID:					JB92766-4	JB92766-5	JB92766-7	JB92858-1	JB92858-2	JB93363-2	JB92858-5
Date Sampled:					4/17/2015	4/17/2015	4/17/2015	4/20/2015	4/20/2015	4/27/2015	4/21/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis											
Antimony	mg/kg	450	31	6	<2.7 NJ-	<2.5 NJ-	<3.3 NJ-	<2.4 NJ-	<2.7 NJ-	<2.4 NJ-	<2.5 NJ-
Chromium	mg/kg	120,000	-	-	127	99.8	1,630	561 ENJ+	44.9 ENJ+	31.3	19 ENJ+
Nickel	mg/kg	23,000	1,600	205**	14.5	12.3	22.1	14	17.2	13.2	15.9
Thallium	mg/kg	79	5	3	<1.4	<1.2	<1.7	<1.2	<1.3	<1.2	<2.5
Vanadium	mg/kg	1,100	390	NA	30.4	20.6	77.5	31.3 EJ	23.4 EJ	33.3	26.4 EJ
General Chemistry											
Chromium, Hexavalent	mg/kg	20	-	-	3.4 *NJ- / 12.7 NJ-	4.3 *NJ- / 5.6 NJ-	<0.65 *NJ- / <0.65 NJ-	14.4 NJ- / 1.6 NJ-	<0.53 NJ- / <0.53 NJ-	1.3 NJ- / 2.3 *NJ-	<0.52 NJ- / <0.52 NJ-
Iron, Ferrous	%	-	-	-	-	0.6	-	-	-	0.34	-
pH	su	-	-	-	7.98	8.29	7.63	7.65	7.02	7.75	6.86
Redox Potential Vs H2	mv	-	-	-	366	322	179	215	221	341	182
Solids, Percent	%	-	-	-	75.9	78.3	61.1	84.1	76.1	81.2	77.1
Sulfide Screen		-	-	-	-	NEGATIVE	-	-	-	NEGATIVE	-
Total Organic Carbon	mg/kg	-	-	-	-	215,000	-	-	-	14,400 J	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW130	PPG63/65_SW131	PPG63-65_DUP- SW131	PPG63/65_SW132	PPG63/65_SW133	PPG63/65_SW134R	PPG63/65_SW135
Sample Depth (ft bgs):					4.5-5	2.5-3.0	2.5-3.0	1.6-2.1	2-2.5	2.5-3.0	1.9-2.4
Sample Elevation (ft msl):					3.7-4.2	5.9-6.4	5.9-6.4	4.3-4.8	7.5-8.0	7.8-8.3	7.9-8.4
Lab Sample ID:					JB92858-6	JB93021-1	JB93021-5	JB93021-3	JB93163-1	JB95015-1	JB93363-3
Date Sampled:					4/21/2015	4/22/2015	4/22/2015	4/22/2015	4/23/2015	5/19/2015	4/27/2015
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis											
Antimony	mg/kg	450	31	6	<2.4 NJ-	<3.4 NJ-	<3.4 NJ-	<2.9 NJ-	<2.5 NJ-	<2.3 NJ-	<2.4 NJ-
Chromium	mg/kg	120,000	-	-	767 ENJ+	191	197	98	60 NJ-	33.3	15.6
Nickel	mg/kg	23,000	1,600	205**	34.3	31.6	29.3	31.3	59.3 ENJ-	20.7	7.9
Thallium	mg/kg	79	5	3	<1.2	<1.7	<1.7	<1.5	<1.2	<1.2	<1.2
Vanadium	mg/kg	1,100	390	NA	50 EJ	73.3	63.4	59.7	28.8 ENJ-	25.4	14.7
General Chemistry											
Chromium, Hexavalent	mg/kg	20	-	-	8.2 NJ- / 16.8 NJ-	<0.67 NJ- / <0.67 NJ-	1.4 NJ- / <0.67	<0.58 NJ- / <0.58 NJ-	<0.50 NJ- / 8.3 NJ-	0.47 NJ- / 1.5 NJ-	3.4 NJ- / 2.2 *NJ-
Iron, Ferrous	%	-	-	-	0.7	-	-	-	-	32.8	-
pH	su	-	-	-	8.22	7.94	7.91	7.13	7.59	7.44	8.36
Redox Potential Vs H2	mv	-	-	-	214	124	206	202	322	335	372
Solids, Percent	%	-	-	-	83	59.6	59.3	69.5	80.5	85.2	82.4
Sulfide Screen		-	-	-	NEGATIVE	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	38,400	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2B
Sidewall Post-Excavation Soil Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road, Jersey City, NJ
2014-2015 Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	PPG63/65_SW138	PPG63/65_SW139
Sample Depth (ft bgs):					1.2-1.7	2.6-3.1
Sample Elevation (ft msl):					6.8-7.3	7.9-8.4
Lab Sample ID:					JB93547-7	JB95015-3
Date Sampled:					4/29/2015	5/19/2015
Matrix:					Soil	Soil
Metals Analysis						
Antimony	mg/kg	450	31	6	<2.5	<2.6 NJ-
Chromium	mg/kg	120,000	-	-	58.7	35.6 EJ
Nickel	mg/kg	23,000	1,600	205**	16.7	22.6
Thallium	mg/kg	79	5	3	<1.2	<1.3
Vanadium	mg/kg	1,100	390	NA	25	28
General Chemistry						
Chromium, Hexavalent	mg/kg	20	-	-	3.6 NJ- / 2.8 *NJ-	1.2 NJ / 1.1 NJ-
Iron, Ferrous	%	-	-	-	-	34.4
pH	su	-	-	-	9.51	7.76
Redox Potential Vs H2	mv	-	-	-	241	343
Solids, Percent	%	-	-	-	84.2	79.5
Sulfide Screen		-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

**- Nickel site specific impact due to groundwater screen level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

[a] - Analytical result in this location was not considered an exceedance because analyte of concern was compliance averaged below soil remediation standard.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Result exceeded criteria

Table 2C
Concrete Post-Excavation Samples (2014-2015)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Concrete
PPG Site 63, 1 Burma Road
Jersey City, NJ Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil (11/13)	PPG63/65_CCS01	PPG 63/65_CCS02	PPG63/65_CCS03	PPG63/65_CCG4	PPG63/65_CCSMP
Sample Depths (ft. bgs)					4.5 - 5	0.2-0.7	1.3 -1.8	3.2 - 3.7	0.8 - 1.3
Sample Elevations (ft. msl)					3 -3.5	7.8-8.3	6.2 - 6.7	4.3 - 4.8	6.7- 7.2
Lab Sample ID:					JB74992-1	JB80992-1	JB84487-1	JB92766-9	JB93547-3
Date Sampled:					8/26/2014	11/5/2014	12/16/2014	4/17/2015	4/29/2015
Matrix:					Concrete/Solid	Concrete/Solid	Concrete/Solid	Concrete/Solid	Concrete/Solid
Metals Analysis									
Antimony	mg/kg	450	31	6	<2.2 NJ-	<1.9	<2.2 NJ-	<2.1 NJ-	<2.2
Chromium	mg/kg	120000	-	-	140 NJ-	94.2	75.9	11.6	21.7 EJ
Nickel	mg/kg	23000	1600	205**	5.5	28.6	8.7	6.5	7.5
Thallium	mg/kg	79	5	3	<1.1	<0.96	<1.1	<1.1	<1.1
Vanadium	mg/kg	1100	390	NA	11.6	24.9	15.7	17.3	12.1
General Chemistry									
Chromium, Hexavalent	mg/kg	20	-	-	3.7	0.59 *NJ- / 1.4 NJ-	3.8 *NJ+	0.59 *NJ- / 0.51 NJ-	<0.42 NJ- / < 0.42 *NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-
pH	su	-	-	-	10.82	9.24	11.61	12.13	11.59
Redox Potential Vs H2	mv	-	-	-	148	267	104	124	123
Solids, Percent	%	-	-	-	95	99.2	95	95	94.6
Sulfide Screen		-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with

EJ - The reported value is estimated because of the presence of interference;

N -The matrix spike sample recovery in the associated QC sample is not within

J+ - The result is estimated and may be biased high.

J- - The result is estimated and may be biased low.

Notes:

**- Nickel site specific impact due to groundwater screen level method

calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

su = standard unit

mv = millivolts

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	AD001				AD004		AD005			AD007					AD008		
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	6.5-7	7-7.5	7.5-8	8-8.5	5.5-6	5.5-6	3.5-4	4-4.5	4-4.5	5.5-6	6-6.5	6.5-7	6.5-7	6.5-7	6-6.5	6-6.5	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	1.4-1.9	0.9-1.4	0.4-0.9	-0.1- 0.4	1.5-2	1.5-2	3.6-4.1	3.1-3.6	3.1-3.6	1.7-2.2	1.2-1.7	0.7-1.2	0.7-1.2	0.7-1.2	1-1.5	1-1.5	1-1.5
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	AD001 6.5-7	AD001 7-7.5	AD001 7.5-8	AD001 8-8.5	AD004 5.5-6	DUP 01	AD005 3.5-4	AD005 4-4.5	DUP 02	AD007 5.5-6	AD007 6-6.5	AD007 6.5-7	DUP 09	DUP 09	AD008 6-6.5	DUP 10	DUP 10
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44205-1	JB44205-2	JB44205-3	JB44205-4	JB46800-4	JB46800-5	JB46800-8	JB46800-9	JB46800-10	JB46883-20	JB46883-21	JB46883-22	JB46883-23	JB46883-23R	JB46883-31	JB46883-32	JB46883-32R
Date Sampled:				8/5/2013	8/5/2013	8/5/2013	8/5/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3	<2.5	<2.0	<2.0	<2.0	4 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	----	2.6	<1.9	----
Chromium (mg/kg)	120,000	-	-	34.7	30.2	36.2 NJ+	27.3 NJ+	189	142	254	255	346	55.2 EJ	22.5	18.4	16.6	----	41.3	30.5	----
Nickel (mg/kg)	23,000	1,600	205**	16.8	15.8	16.1	12.2	15.4	16.2	18.2	19.4	26.4	16.6	17.4	13.4	11.8	----	13.9	17.6	----
Thallium (mg/kg)	79	5	3	<1.1	<1.2	<1.2	<1.1	<1.2	<1.2	<1.0	<0.99	<0.99	<1.3	<1.2	<1.2	<1.2	----	<0.99	<0.93	----
Vanadium (mg/kg)	1,100	390	-	32.9	35.4	52	43.3	33	72.8	28.9	30.6	14.3 NJ+	24.7 EJ	32.3	26.4	24.3	----	18.4	24.3	----
Chromium, Hexavalent (mg/kg)	20	-	-	1.3 NJ-	0.67 NJ-	0.92 NJ-	1.2 NJ-	<0.47 NJ-	<0.48 NJ-	<0.54 NJ-	14.8 NJ-	4.7 NJ-	<0.50 NJ-	<0.47 NJ-	<0.46 NJ-	<0.45 NJ-	<0.45 NJ-	<0.65 NJ-	<0.70 NJ-	<0.70 NJ-
pH	-	-	-	9.84	9.53	9.37	9.26	9.99	10.14	7.92	7.76	8.18	7.74	8.09	8.38	8.47	----	7.66	7.66	----
Redox Potential Vs H2 (mV)	-	-	-	213	151	160	169	16.7	-12.5	128	138	230	281	259	256	263	----	209	158	----
Solids, Percent (%)	-	-	-	86.1	87.6	89.1	89.4	85.3	84.2	74.4	76.4	79.1	80	84.9	86.8	88.3	----	61.3	57.5	----

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

mV = millivolts

[a] Elevated detection limit due to dilution required for high interfering element.

[+] Hex Chrome Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analyses.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	AD009						AD011					
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	6-6.5	6-6.5	6.5-7	6.5-7	6.5-7	6.5-7	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	0.5-1	0.5-1	0-0.5	0-0.5	0-0.5	0-0.5	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	0.7-1.2	0.7-1.2
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	AD009 6-6.5	AD009 6-6.5	AD009 6.5-7	AD009 6.5-7	DUP 12	DUP 12	AD011 5.5-6	AD011 5.5-6	AD011 6-6.5	AD011 6-6.5	AD011 6.5-7	AD011 6.5-7
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB47183-7	JB47183-7R	JB47183-8	JB47183-8R	JB47183-9	JB47183-9R	JB47087-2	JB47087-2R	JB47087-3	JB47087-3R	JB47087-4	JB47087-4R
Date Sampled:				9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.5	----	3.5	----	<2.0	----	<2.4 NJ-	----	<2.3	----	<2.5	----
Chromium (mg/kg)	120,000	-	-	11.1	----	22.2	----	17.5	----	18.4	----	15	----	16.7	----
Nickel (mg/kg)	23,000	1,600	205**	12.3	----	21.4	----	15.3	----	14.3	----	14.7	----	14.6	----
Thallium (mg/kg)	79	5	3	<1.3	----	<0.99	----	<1.0	----	<1.2	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	17.2	----	25.9	----	25.3	----	17.5	----	18.1	----	19.6	----
Chromium, Hexavalent (mg/kg)	20	-	-	<0.49 NJ-	<0.49 NJ-	<0.60 NJ-	<0.60 NJ-	<0.54 NJ-	<0.54 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.48 NJ-	<0.48 NJ-
pH	-	-	-	8.16	----	8.91	----	9.56	----	8.02	----	8.57	----	8.16	----
Redox Potential Vs H2 (mV)	-	-	-	285	----	280	----	270	----	268	----	289	----	264	----
Solids, Percent (%)	-	-	-	81.5	----	66.3	----	74.7	----	81.9	----	84	----	82.7	----

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

mV = millivolts

[a] Elevated detection limit due to dilution required for high interfering element.

[+] Hex Chrome Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analyses.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	BD001				BD002			BD003			BD004							
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	7-7.5	7.5-8	8-8.5	8.5-9	6.5-7	7-7.5	7.5-8	5.5-6	5.5-6	5.5-6	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6.5-7	6.5-7
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	-0.1 - 0.4	-0.1- (-0.6)	-0.6 - (- 1.1)	-1.1 - (- 1.6)	0.3-0.8	-0.2 - 0.3	-0.7 - (- 0.2)	1.8-2.3	1.8-2.3	1.8-2.3	2.2-2.7	2.2-2.7	1.7-2.3	1.7-2.3	1.2-1.7	1.2-1.7	1.2-1.7	1.2-1.7
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	BD001 7-7.5	BD001 7.5-8	BD001 8-8.5	BD001 8.5-9	BD002 6.5-7	BD002 7-7.5	BD002 7.5-8	BD003 5.5-6	DUP 07	DUP 07	BD004 5.5-6	BD004 5.5-6	BD004 6-6.5	BD004 6-6.5	BD004 6.5-7	BD004 6.5-7	DUP 06	DUP 06
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB44205-5	JB44205-6	JB44205-7	JB44205-8	JB43880-49A	JB43880-50A	JB43880-51A	JB46883-8R	JB46883-9	JB46883-9R	JB46800-38	JB46800-38R	JB46800-39	JB46800-39R	JB46800-40	JB46800-40R	JB46800-41	JB46800-41R
Date Sampled:				8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/2/2013	8/2/2013	8/2/2013	9/10/2013	9/10/2013	9/10/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.2 NJ-	<2.4 NJ-	<2.5 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	----	<2.4	----	3.2 NJ-	----	<2.2	----	<2.2	----	<2.4	----
Chromium (mg/kg)	120,000	-	-	181	18.5	18.8	19.3	65.7 NJ+	23.8 NJ+	17.7 NJ+	----	15.5	----	31.4	----	33.5	----	15.5	----	23.5	----
Nickel (mg/kg)	23,000	1,600	205**	12.9	13.7	14.6	13.7	15.1	14	14.3	----	15.1	----	21.4	----	18.8	----	14.5	----	19.1	----
Thallium (mg/kg)	79	5	3	<1.1	<1.2	<1.2	<1.1	<1.2	<1.1	<2.3 [a]	----	<1.2	----	<1.2	----	<1.1	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	22.7	20.7	17.3	26.2	24.5	35.7	24.2	----	20.8	----	22.4	----	32.6	----	24	----	33.3	----
Chromium, Hexavalent (mg/kg)	20	-	-	0.95 NJ-	<0.46 NJ-	0.87 NJ-	0.67 NJ-	<0.46 NJ-	<0.46 NJ-	0.47 NJ-	<0.48 NJ-	<0.49 NJ-	<0.49 NJ-	<0.47 NJ-	0.59 NJ-	<0.46 NJ-	0.7 NJ-	<0.45 NJ-	<0.45 NJ-	<0.47 NJ-	<0.47 NJ-
pH	-	-	-	10.33	10.06	9.54	9.64	9.52	9.36	9.16	----	8.51	----	8.14	----	8.35	----	8.13	----	8.23	----
Redox Potential Vs H2 (mV)	-	-	-	128	116	129	148	147	155	156	----	179	----	220	----	202	----	201	----	201	----
Solids, Percent (%)	-	-	-	90.5	87.2	83	88.4	87.1	87.7	89.3	----	81.7	----	85.2	----	86.9	----	88.4	----	85.7	----

Analytical Data Qualifiers:

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R - The reported result is rejected .

Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

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[a] Elevated detection limit due to dilution required for high interfering element.

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Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	BD005										BD006			
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	7-7.5	7-7.5	7-7.5	7-7.5	6-6.5	6.5-7	7-7.5	7.5-8
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.2-2.7	2.2-2.7	1.7-2.3	1.7-2.3	1.2-1.7	1.2-1.7	0.7-1.2	0.7-1.2	0.7-1.2	0.7-1.2	1.5-2	1-1.5	0.5-1	0-0.5
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	BD005 5.5-6	BD005 5.5-6	BD005 6-6.5	BD005 6-6.5	BD005 6.5-7	BD005 6.5-7	BD005 7-7.5	BD005 7-7.5	DUP 08	DUP 08	BD006 6-6.5	BD006 6.5-7	BD006 7-7.5	BD006 7.5-8
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB46883-10	JB46883-10R	JB46883-11	JB46883-11R	JB46883-12	JB46883-12R	JB46883-13	JB46883-13R	JB46883-14	JB46883-14R	JB44447-13	JB44447-14	JB44447-15	JB44447-16
Date Sampled:				9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.5 NJ-	----	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.4 NJ-
Chromium (mg/kg)	120,000	-	-	43.2 EJ	----	22.5 EJ	----	24.4 EJ	----	19.9 EJ	----	17.9 EJ	----	25 *ENJ-	29.4 *ENJ-	21.6 *ENJ-	18.4 *ENJ-
Nickel (mg/kg)	23,000	1,600	205**	15.7	----	16.1	----	16.3	----	16.4	----	15.8	----	12.5	14.4	15.6	13.1
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.2	----	<1.2	----	<1.3	----	<1.2	<1.2	<1.3	<1.2
Vanadium (mg/kg)	1,100	390	-	53.5 EJ	----	25.5 EJ	----	31 EJ	----	26.6 EJ	----	23.5 EJ	----	28.3 NJ-	28.1 NJ-	26.5 NJ-	21.2 NJ-
Chromium, Hexavalent (mg/kg)	20	-	-	1.2 NJ-	2.7 NJ-	<0.47 NJ-	<0.47 NJ-	<0.47 NJ-	<0.47 NJ-	<0.49 NJ-	<0.49 NJ-	<0.50 NJ-	0.54 NJ-	0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-
pH	-	-	-	7.83	----	7.45	----	7.6	----	7.82	----	7.8	----	8.14	7.49	7.11	7.4
Redox Potential Vs H2 (mV)	-	-	-	276	----	260	----	270	----	271	----	270	----	255	257	229	235
Solids, Percent (%)	-	-	-	86	----	84.3	----	84.5	----	82.3	----	80.2	----	90.4	82.2	81.2	81.6

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Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

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***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	BD007								BD008							
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2-2.5	2-2.5	1.5-2	1.5-2	1-1.5	1-1.5	0.5-1	0.5-1	2.4-2.9	2.4-2.9	1.9-2.4	1.9-2.4	1.4-1.9	1.4-1.9	0.9-1.4	0.9-1.4
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	BD007 5-5.5	BD007 5-5.5	BD007 5.5-6	BD007 5.5-6	BD007 6-6.5	BD007 6-6.5	BD007 6.5-7	BD007 6.5-7	BD008 4.5-5	BD008 4.5-5	BD008 5-5.5	BD008 5-5.5	BD008 5.5-6	BD008 5.5-6	BD008 6-6.5	BD008 6-6.5
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB46883-15	JB46883-15R	JB46883-16	JB46883-16R	JB46883-17	JB46883-17R	JB46883-18	JB46883-18R	JB46883-24	JB46883-24R	JB46883-25	JB46883-25R	JB46883-26	JB46883-26R	JB46883-27	JB46883-27R
Date Sampled:				9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.1 NJ-	----	<2.2 NJ-	----	3.8 NJ-	----	3.9 NJ-	----	<11 [a] NJ-***	----
Chromium (mg/kg)	120,000	-	-	38.3 EJ	----	29.1 EJ	----	28.9 EJ	----	31.1 EJ	----	73.2	----	238	----	69.3	----	64.1	----
Nickel (mg/kg)	23,000	1,600	205**	18.5	----	15	----	16.1	----	17.9	----	14.5	----	23.4	----	16.7	----	22.5	----
Thallium (mg/kg)	79	5	3	<1.2	----	<1.2	----	<1.1	----	<1.0	----	<1.1	----	<1.1	----	<1.0	----	<5.7 [a] ***	----
Vanadium (mg/kg)	1,100	390	-	38.5 EJ	----	27.2 EJ	----	36.8 EJ	----	39.7 EJ	----	16.9	----	34.7	----	18.1	----	21.5	----
Chromium, Hexavalent (mg/kg)	20	-	-	0.45 NJ-	0.98 NJ-	0.63 NJ-	1 NJ-	0.81 NJ-	0.75 NJ-	0.6 NJ-	0.64 NJ-	<0.46 NJ-	<0.46 NJ-	<0.50 NJ-	<0.50 NJ-	<0.58 NJ-	<0.58 NJ-	<0.49 NJ-	<0.49 NJ-
pH	-	-	-	7.97	----	7.94	----	8.05	----	7.86	----	7.68	----	7.8	----	7.73	----	7.78	----
Redox Potential Vs H2 (mV)	-	-	-	269	----	271	----	277	----	250	----	273	----	26.6	----	273	----	217	----
Solids, Percent (%)	-	-	-	88.2	----	86.7	----	89.9	----	73.4	----	87.4	----	79.4	----	68.4	----	81.4	----

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Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	BD009								BD010					
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	5.5-6	5.5-6	6-6.5	6-6.5	6-6.5	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	3.4-3.9	3.4-3.9	2.9-3.4	2.9-3.4	2.4-2.9	2.4-2.9	1.9-2.4	1.9-2.4	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3	1.8-2.3	1.8-2.3
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	BD009 4.5-5	BD009 4.5-5	BD009 5-5.5	BD009 5-5.5	BD009 5.5-6	BD009 5.5-6	BD009 6-6.5	BD009 6-6.5	BD010 5.5-6	BD010 5.5-6	BD010 6-6.5	BD010 6-6.5	DUP11	DUP11
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB47087-10	JB47087-10R	JB47087-11	JB47087-11R	JB47087-12	JB47087-12R	JB47087-13	JB47087-13R	JB47087-7	JB47087-7R	JB47087-8	JB47087-8R	JB47087-9	JB47087-9R
Date Sampled:				9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013	9/11/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.2 NJ-	----	<2.2 NJ-	----	<2.2 NJ-	----	<2.4	----	<2.4	----	**93.4 *****	----
Chromium (mg/kg)	120,000	-	-	181	----	21.8	----	19.5	----	49.6	----	490	----	30.1	----	16	----
Nickel (mg/kg)	23,000	1,600	205**	14.8	----	17	----	13.7	----	23.3	----	22.5	----	18.8	----	19	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.1	----	<1.1	----	<1.1	----	<1.2	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	38.9	----	32.4	----	31	----	39.8	----	15.4	----	14.7	----	17	----
Chromium, Hexavalent (mg/kg)	20	-	-	11.2 NJ-	8.3 NJ-	<0.45 NJ-	<0.45 NJ-	<0.45 NJ-	<0.45 NJ-	0.61 NJ-	<0.46 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-
pH	-	-	-	7.86	----	7.98	----	7.96	----	7.96	----	8.08	----	8.12	----	8.22	----
Redox Potential Vs H2 (mV)	-	-	-	301	----	300	----	311	----	317	----	296	----	291	----	290	----
Solids, Percent (%)	-	-	-	86.5	----	89.2	----	88.8	----	87.6	----	81.5	----	82.4	----	83	----

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Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD001				CD002				CD003		
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	7-7.5	7.5-8	8-8.5	8.5-9	6-6.5	6.5-7	7-7.5	7.5-8	6.5-7	7-7.5	7.5-8
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	0.8-1.3	0.3-0.8	-0.2 - 0.3	-0.7 - (- 0.2)	1.9-2.4	1.3-1.8	0.8-1.3	0.3-0.8	1.5-2	1-1.5	0.5-1
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	CD001 7-7.5	CD001 7.5-8	CD001 8-8.5	CD001 8.5-9	CD002 6-6.5	CD002 6.5-7	CD002 7-7.5	CD002 7.5-8	CD003 6.5-7	CD003 7-7.5	CD003 7.5-8
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB43880-35A	JB43880-1A	JB43880-2A	JB43880-3A	JB43880-4A	JB43880-5A	JB43880-6A	JB43880-7A	JB43880-30A	JB43880-31A	JB43880-32A
Date Sampled:				7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/31/2013	7/31/2013	7/31/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.0 NJ-	<2.4 NJ-	<2.4 NJ-	<2.0 NJ-	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-
Chromium (mg/kg)	120,000	-	-	15.3 NJ+	17.9	17	15.9	25.7	18.9	32.7	15.6	37.7	32.9	17.5
Nickel (mg/kg)	23,000	1,600	205**	13.1	14.3	14.4	17.2	17.5	14.3	22.7	12.2	16.8	16.5	12.9
Thallium (mg/kg)	79	5	3	<1.0	<1.2	<1.2	<1.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	-	22.2	24.4	24.2	23.3	35.5	30.1	49.1	22.7	31.2	29.3	25.4
Chromium, Hexavalent (mg/kg)	20	-	-	<0.52 NJ-	<0.48 NJ-	<0.47 NJ-	5.3 NJ-	0.69 NJ-	0.76 NJ-	0.48 NJ-	0.98 NJ-	<0.47 NJ-	<0.46 NJ-	<0.46 NJ-
pH	-	-	-	6.98	7.13	7.37	6.77	6.88	7.24	6.98	6.72	7.24	7.1	7.21
Redox Potential Vs H2 (mV)	-	-	-	197	310	248	276	241	242	232	239	236	212	213
Solids, Percent (%)	-	-	-	77.2	82.9	84.5	43.6	86.5	86.1	86.6	84.4	85.9	86.6	86.9

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Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

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Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD004				CD006				CD008	CD009	
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	7-7.5	7.5-8	8-8.5	8.5-9	7-7.5	7.5-8	8-8.5	8.5-9	6.5-7	5.5-6	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	0.8-1.3	0.3-0.8	-0.2 - 0.3	-0.7 - (-0.2)	-0.1 - (0.4)	-0.6 - (- 0.1)	-1.1 - (-0.6)	-1.6 - (1.1)	0.5-1	1.7-2.2	1.2-1.7
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	CD004 7-7.5	CD004 7.5-8	CD004 8-8.5	CD004 8.5-9	CD006 7-7.5	CD006 7.5-8	CD006 8-8.5	CD006 8.5-9	CD008 6.5-7	CD009 5.5-6	CD009 6-6.5
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44205-25	JB44205-26	JB44205-27	JB44205-28	JB44205-33	JB44205-34	JB44205-35	JB44205-36	JB43880-43A	JB43880-46A	JB43880-47A
Date Sampled:				8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/2/2013	8/2/2013	8/2/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-	<2.3 NJ-	<2.2 NJ-	<2.4 NJ-	<2.1 NJ-	<2.3 NJ-	<2.1 NJ-	<2.4 NJ-
Chromium (mg/kg)	120,000	-	-	46.3 NJ+	34.3 NJ+	22.4 NJ+	18.4 NJ+	46.7 NJ+	29 NJ+	18.4 NJ+	24.3 NJ+	39.5 NJ+	30.3 NJ+	19.5 NJ+
Nickel (mg/kg)	23,000	1,600	205**	11.9	16.9	13.5	14.1	12.2	17	14	17.6	13.2	14.1	15.1
Thallium (mg/kg)	79	5	3	<1.1	<1.1	<1.1	<1.2	<1.1	<1.1	<1.2	<1.0	<1.2	<1.0	<1.2
Vanadium (mg/kg)	1,100	390	-	28.5	41.2	24.6	24.4	24.5	25.8	31.3	30.9	22	32.1	24.5
Chromium, Hexavalent (mg/kg)	20	-	-	1.2 NJ-	<0.47 NJ-	<0.46 NJ-	<0.49 NJ-	<0.44 NJ-	<0.44 NJ-	<0.46 NJ-	<1.2 NJ-	0.55 NJ-	<0.50 NJ-	<0.46 NJ-
pH	-	-	-	6.95	8.76	7.9	7.36	9.31	9.31	8.73	7.37	7.77	7.16	7.34
Redox Potential Vs H2 (mV)	-	-	-	290	279	256	214	224	229	149	233	211	222	225
Solids, Percent (%)	-	-	-	88.9	85.5	87.9	82.4	91	90.4	87.6	33.5	83.6	79.9	87.4

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Notes:

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Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD010								CD011							
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	4.5-5[+]	4.5-5[+]	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	3.1-3.6	3.1-3.6	2.6-3.1	2.6-3.1	2.1-2.6	2.1-2.6	1.6-2.1	1.6-2.1
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	CD010 4.5-5	CD010 4.5-5	CD010 5-5.5	CD010 5-5.5	CD010 5.5-6	CD010 5.5-6	CD010 6-6.5	CD010 6-6.5	CD011 4.5-5	CD011 4.5-5	CD011 5-5.5	CD011 5-5.5	CD011 5.5-6	CD011 5.5-6	CD011 6-6.5	CD011 6-6.5
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB46883-1	JB46883-1R	JB46883-2	JB46883-2R	JB46883-3	JB46883-3R	JB46883-4	JB46883-4R	JB46800-42	JB46800-42R	JB46800-43	JB46800-43R	JB46800-44	JB46800-44R	JB46800-45	JB46800-45R
Date Sampled:				9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/10/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	----	<2.3 NJ-	----	<2.4	----	<2.4	----	<2.4	----	<2.3	----	<2.3	----	<2.2	----
Chromium (mg/kg)	120,000	-	-	17 EJ	----	58.8 EJ	----	35.8	----	41.2	----	19.7	----	461	----	48.6	----	25.3	----
Nickel (mg/kg)	23,000	1,600	205**	12	----	22.2	----	14.2	----	16	----	14.4	----	14.6	----	12.3	----	13.1	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.1	----	<1.2	----	<1.2	----	<1.2	----	<1.2	----	<1.1	----	<1.1	----
Vanadium (mg/kg)	1,100	390	-	20.3 EJ	----	45.1 EJ	----	29.4	----	27.8	----	25.8	----	34.2	----	20.8	----	25.9	----
Chromium, Hexavalent (mg/kg)	20	-	-	<0.47 NJ-	<0.47NJ-	0.55 NJ-	0.49 NJ-	0.54 NJ-	<0.46 NJ-	<0.47 NJ-	<0.47 NJ-	<0.48 NJ-	<0.48 NJ-	2.5 NJ-	3.5 NJ-	0.65 NJ-	<0.46 NJ-	<0.46 NJ-	<0.46 NJ-
pH	-	-	-	8.84	----	8.84	----	8.61	----	8.18	----	8.65	----	9.05	----	8.77	----	8.44	----
Redox Potential Vs H2 (mV)	-	-	-	258	----	229	----	244	----	251	----	178	----	169	----	218	----	212	----
Solids, Percent (%)	-	-	-	84.8	----	88.7	----	86.1	----	85.2	----	82.5	----	86.5	----	87.1	----	86.6	----

Analytical Data Qualifiers:

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Notes:

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Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD012							CD013									
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	5-5.5	5.5-6[+]	5.5-6	5.5-6	5.5-6	6-6.5	6-6.5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6.5-7	6.5-7
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.8-3.3	2.3-2.8	2.3-2.8	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3	2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3	1.3-1.8	1.3-1.8	1.3-1.8	1.3-1.8
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	CD012 5-5.5	CD012 5.5-6	CD012 5.5-6	DUP 04	DUP 04	CD012 6-6.5	CD012 6-6.5	CD013 5-5.5	CD013 5-5.5	CD013 5.5-6	CD013 5.5-6	CD013 6-6.5	CD013 6-6.5	CD013 6.5-7	CD013 6.5-7	DUP 05	DUP 05
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB46800-17	JB46800-18	JB46800-18R	JB46800-20	JB46800-20R	JB46800-19	JB46800-19R	JB46800-21	JB46800-21R	JB46800-22	JB46800-22R	JB46800-23	JB46800-23R	JB46800-24	JB46800-24R	JB46800-36	JB46800-36R
Date Sampled:				9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013	9/9/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3	<2.3	----	<2.2	----	<2.4	----	<2.3 NJ-	----	<2.0 NJ-	----	<2.1 NJ-	----	<2.2 NJ-	----	<2.2 NJ-	----
Chromium (mg/kg)	120,000	-	-	26	16.7	----	18.4	----	21.1	----	23.3	----	17.9	----	26.8	----	25.9	----	18.4	----
Nickel (mg/kg)	23,000	1,600	205**	13.7	12.6	----	14.9	----	14.4	----	13.9	----	13.7	----	15.3	----	17.2	----	14.7	----
Thallium (mg/kg)	79	5	3	<1.2	<1.2	----	<1.1	----	<1.2	----	<1.2	----	<0.99	----	<1.1	----	<1.1	----	<1.1	----
Vanadium (mg/kg)	1,100	390	-	20.8 NJ+	21.6	----	26.3 NJ+	----	23.6 NJ+	----	21.2	----	19.1	----	23.4	----	27.4	----	27.8	----
Chromium, Hexavalent (mg/kg)	20	-	-	<0.47 NJ-	0.61 NJ-	<0.46 NJ-	0.59 NJ-	<0.46 NJ-	0.46 NJ-	<0.46 NJ-	<0.47 NJ-	0.61 NJ-	<0.51 NJ-	<0.51 NJ-	<0.45 NJ-	0.47 NJ-	<0.44 NJ-	<0.44 NJ-	<0.44 NJ-	<0.44 NJ-
pH	-	-	-	8.32	8.3	----	8.06	----	8.49	----	7.53	----	7.23	----	7.29	----	7.86	----	8.43	----
Redox Potential Vs H2 (mV)	-	-	-	154	147	----	251	----	204	----	201	----	189	----	173	----	166	----	297	----
Solids, Percent (%)	-	-	-	84.5	87.8	----	87.7	----	86.7	----	84.4	----	79.2	----	88.8	----	90.3	----	91.4	----

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Notes:

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Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD014								CD015					
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	8-8.5	8-8.5	8.5-9+	8.5-9	9-9.5	9-9.5	9.5-10	9.5-10	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	-0.1 - 0.4	-0.1 - 0.4	-0.6 - (-0.1)	-0.6 - (-0.1)	-1.1 - (- 0.6)	-1.1 - (- 0.6)	-1.6 - (- 1.1)	-1.6 - (- 1.1)	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	CD014 8-8.5	CD014 8-8.5	CD014 8.5-9	CD014 8.5-9	CD014 9-9.5	CD014 9-9.5	CD014 9.5-10	CD014 9.5-10	CD015 5.5-6	CD015 5.5-6	CD015 6-6.5	CD015 6-6.5	CD015 6.5-7	CD015 6.5-7
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44447-33	JB44447-33R	JB44447-34	JB44447-34R	JB44447-35	JB44447-35R	JB44447-36	JB44447-36R	JB44447-30	JB44447-30R	JB44447-31	JB44447-31R	JB44447-32	JB44447-32R
Date Sampled:				8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.0 NJ-	----	<2.5	----	<2.0 NJ-	----	<2.0 NJ-	----	<2.3 NJ-	----	<2.3 NJ-	---	<2.4 NJ-	---
Chromium (mg/kg)	120,000	-	-	483	----	36.3	----	15	----	29.7	----	28.4	----	162	----	35.9	----
Nickel (mg/kg)	23,000	1,600	205**	19.5	----	15.3	----	14.5	----	16.3	----	11.6	----	16.2	----	13.7	----
Thallium (mg/kg)	79	5	3	<1.0	----	<1.2	----	<1.0	----	<0.99	----	<1.2	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	41.1	----	20.8	----	17	----	25.4	----	18.3	----	24.1	----	26	----
Chromium, Hexavalent (mg/kg)	20	-	-	3.6 NJ-	10.2 NJ-	<0.48 NJ-	<0.48 NJ-	<0.50 NJ-	<0.50 NJ-	<0.94 NJ-	<0.94 NJ-	<0.47 NJ-	<0.47 NJ-	<0.47 NJ-	0.96 NJ-	<0.48 NJ-	<0.48 NJ-
pH	-	-	-	8.7	----	7.76	----	8.02	----	7.69	----	7.91	----	8.11	----	8.03	----
Redox Potential Vs H2 (mV)	-	-	-	159	----	180	----	183	----	171	----	155	----	160	----	168	----
Solids, Percent (%)	-	-	-	78.1	----	83.2	----	79.8	----	42.5	----	85	----	85.8	----	84.1	----

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Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD016						CD017			
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	5-5.5	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	6-6.5	6.5-7	7-7.5	7.5-8
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.5-3	2-2.5	1.5-2	1.5-2	1-1.5	1-1.5	1.2-1.7	0.7-1.2	0.2-0.7	-0.3 - 0.2
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	CD016 5-5.5	CD016 5.5-6	CD016 6-6.5	CD016 6-6.5	CD016 6.5-7	CD016 6.5-7	CD017 6-6.5	CD017 6.5-7	CD017 7-7.5	CD017 7.5-8
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44447-17	JB44447-18	JB44447-19	JB44447-19R	JB44447-20	JB44447-20R	JB44447-1	JB44447-2	JB44447-3	JB44447-4
Date Sampled:				8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.4 NJ-	<2.4 NJ-	<2.0 NJ-	----	<2.0 NJ-	----	<2.3 NJ-	<2.2 NJ-	<2.4 NJ-	<2.5 NJ-
Chromium (mg/kg)	120,000	-	-	25.6 *ENJ-	12.7 *ENJ-	19.8 *ENJ-	----	14 *ENJ-	----	168 *ENJ-	42 *ENJ-	25.4	18.1
Nickel (mg/kg)	23,000	1,600	205**	14.6	12.4	15.3	----	15.3	----	19.2	14.1	16.6	15.8
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.0	----	<1.0	----	<1.1	<1.1	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	-	23.5 NJ-	18.7 NJ-	22 NJ-	----	18.1 NJ-	----	44.5 NJ-	25.2 NJ-	20.2	19.9
Chromium, Hexavalent (mg/kg)	20	-	-	<0.47 NJ-	<0.48 NJ-	<0.51 NJ-	<0.51 NJ-	<0.50 NJ-	<0.50 NJ-	2.6 NJ-	1.1 NJ-	0.58 NJ-	0.49 NJ-
pH	-	-	-	8.67	8.56	8.34	----	8.36	----	8.33	8.38	7.88	7.58
Redox Potential Vs H2 (mV)	-	-	-	193	180	182	----	258	----	296	217	241	264
Solids, Percent (%)	-	-	-	84.6	82.7	78.4	----	79.7	----	89.7	89.4	84.1	83.1

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

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EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

mV = millivolts

[a] Elevated detection limit due to dilution required for high interfering element.

[+] Hex Chrome Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analyses.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	CD018										CD019							
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	6-6.5	6-6.5	4-4.5	4-4.5	4.5-5+	4.5-5+	5-5.5	5-5.5	5.5-6	5.5-6
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	1.2-1.7	1.2-1.7	1.2-1.7	1.2-1.7	3.3-3.8	3.3-3.8	2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	CD018 4.5-5	CD018 4.5-5	CD018 5-5.5	CD018 5-5.5	CD018 5.5-6	CD018 5.5-6	CD018 6-6.5	CD018 6-6.5	DUP 13	DUP 13	CD019 4-4.5	CD019 4-4.5	CD019 4.5-5	CD019 4.5-5	CD019 5-5.5	CD019 5-5.5	CD019 5.5-6	CD019 5.5-6
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB47185-2	JB47185-2R	JB47185-3	JB47185-3R	JB47185-4	JB47185-4R	JB47185-5	JB47185-5R	JB47185-6	JB47185-6R	JB47183-1	JB47183-1R	JB47183-2	JB47183-2R	JB47183-3	JB47183-3R	JB47183-4	JB47183-4R
Date Sampled:				9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.1 NJ-	----	<2.4	----	<2.4	----	<2.5	----	<2.4	----	<2.3 NJ-	----	<2.4 NJ-	----	3.4 NJ-	----	<2.3 NJ-	----
Chromium (mg/kg)	120,000	-	-	69.0 [a] *J	----	18.8	----	34.4	----	19.2	----	22.7	----	216	----	70.3	----	160	----	25.9	----
Nickel (mg/kg)	23,000	1,600	205**	12.7 [a]	----	11.2	----	16.8	----	16.9	----	17	----	11.3	----	16.6	----	22.9	----	17.1	----
Thallium (mg/kg)	79	5	3	<2.1 [a]	----	<1.2	----	<1.2	----	<1.3	----	<1.2	----	<1.1	----	<1.2	----	<0.99	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	28	----	21.4	----	28.3	----	24.5	----	23.9	----	24.1	----	15.6	----	29.3	----	36.7	----
Chromium, Hexavalent (mg/kg)	20	-	-	<0.44 NJ-	0.49 NJ-	<0.47 NJ-	0.89 NJ-	0.56 NJ-	<0.48 NJ-	<0.50 NJ-	<0.50 NJ-	<0.49 NJ-	<0.49 NJ-	<0.45 NJ-	<0.45 NJ-	<0.48 NJ-	0.51 NJ-	<0.55 NJ-	<0.55 NJ-	<0.47 NJ-	<0.47 NJ-
pH	-	-	-	7.92	----	7.97	----	7.66	----	8	----	7.79	----	8.01	----	7.99	----	7.7	----	7.73	----
Redox Potential Vs H2 (mV)	-	-	-	275	----	276	----	273	----	290	----	271	----	284	----	289	----	292	----	256	----
Solids, Percent (%)	-	-	-	90.2	----	85.3	----	83.6	----	79.3	----	81.8	----	89.6	----	84.2	----	72.1	----	84.3	----

Analytical Data Qualifiers:

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Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

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Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	DD001				DD002				DD004	DD005			
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	7-7.5	7.5-8	8-8.5	8.5-9	6-6.5	6.5-7	7-7.5	7.5-8	6.5-7	5-5.5	5-5.5	5.5-6	5.5-6
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	0.9-1.4	0.4-0.9	-0.1 - (0.4)	-0.6 - (-0.1)	1.5-2	1-1.5	0.5-1	0-0.5	0.9-1.4	2.5-3	2.5-3	2-2.5	2-2.5
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	DD001 7-7.5	DD001 7.5-8	DD001 8-8.5	DD001 8.5-9	DD002 6-6.5	DD002 6.5-7	DD002 7-7.5	DD002 7.5-8	DD004 6.5-7	DD005 5-5.5	DD005 5-5.5	DD005 5.5-6	DD005 5.5-6
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB43880-8A	JB43880-9A	JB43880-10A	JB43880-11A	JB44205-29	JB44205-30	JB44205-31	JB44205-32	JB43880-23A	JB47183-12	JB47183-12R	JB47185-1	JB47185-1R
Date Sampled:				7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/1/2013	9/12/2013	9/12/2013	9/12/2013	9/12/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.6 NJ-	<2.2 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-	<2.4 NJ-	----	<2.3 NJ-	----
Chromium (mg/kg)	120,000	-	-	20.1	16.9	15.1	17	24.1 NJ+	25.8 NJ+	19.5 NJ+	16.7 NJ+	19.2	15.9	----	58.1 *J	----
Nickel (mg/kg)	23,000	1,600	205**	14.3	13.1	12.2	13.3	14.4	12.2	13.4	14.5	15	13.8	----	15	----
Thallium (mg/kg)	79	5	3	<1.2	<1.2	<1.2	<1.3	<1.1	<1.1	<1.2	<1.1	<1.3	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	28.2	22	19.6	21.2	27.7	24.7	23.1	22.6	23.8	20.9	----	23.8	----
Chromium, Hexavalent (mg/kg)	20	-	-	<0.47 NJ-	0.49 NJ-	0.49 NJ-	0.69 NJ-	<0.46 NJ-	<0.46 NJ-	<0.46 NJ-	<0.46 NJ-	<0.50 NJ-	<0.48 NJ-	<0.48 NJ-	<0.49 NJ-	<0.49 NJ-
pH	-	-	-	7.81	7.72	6.98	7.26	8.46	8.72	8.56	8.44	7.54	8.8	----	8.6	----
Redox Potential Vs H2 (mV)	-	-	-	216	226	309	317	214	206	229	235	237	173	----	269	----
Solids, Percent (%)	-	-	-	85.4	84.2	83.4	80.7	86.4	86.5	86.9	87.6	80.6	82.6	----	81.4	----

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Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

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***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	DD006								DD007					
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	3.2-3.7	3.2-3.7	2.7-3.2	2.7-3.2	2.2-2.7	2.2-2.7	1.7-2.2	1.7-2.2	2.8-3.3	2.8-3.3	2.3-2.8	2.3-2.8	1.8-2.3	1.8-2.3
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	DD006 4.5-5	DD006 4.5-5	DD006 5-5.5	DD006 5-5.5	DD006 5.5-6	DD006 5.5-6	DD006 6-6.5	DD006 6-6.5	DD007 5-5.5	DD007 5-5.5	DD007 5.5-6	DD007 5.5-6	DD007 6-6.5	DD007 6-6.5
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44447-65	JB44447-65R	JB44447-66	JB44447-66R	JB44447-67	JB44447-67R	JB44447-68	JB44447-68R	JB44447-38	JB44447-38R	JB44447-39	JB44447-39R	JB44447-40	JB44447-40R
Date Sampled:				8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.0	----	<2.5	----	<2.3	----	<2.3	----	<2.3 NJ-	----	<2.3 NJ-	----	<2.4 NJ-	----
Chromium (mg/kg)	120,000	-	-	71.7	----	30.7	----	59.7	----	33.6	----	18.8	----	17.9	----	24	----
Nickel (mg/kg)	23,000	1,600	205**	15.6	----	14.5	----	14.2	----	15.1	----	10.4	----	13.6	----	16	----
Thallium (mg/kg)	79	5	3	<1.0	----	<1.2	----	<1.1	----	<1.2	----	<1.1	----	<1.1	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	28	----	25.5	----	22.1	----	24	----	19.3	----	23.8	----	30.6	----
Chromium, Hexavalent (mg/kg)	20	-	-	1.7 NJ-	<0.53 NJ-	<0.48 NJ-	<0.48 NJ-	0.79 NJ-	0.7 NJ-	<0.49 NJ-	<0.49 NJ-	1.2 NJ-	0.57 NJ-	<0.45 NJ-	<0.45 NJ-	<0.46 NJ-	0.46 NJ-
pH	-	-	-	8.47	----	8.62	----	8.37	----	8.1	----	8.9	----	8.61	----	8.34	----
Redox Potential Vs H2 (mV)	-	-	-	134	----	163	----	184	----	193	----	217	----	220	----	237	----
Solids, Percent (%)	-	-	-	75.8	----	83.4	----	84.4	----	82.1	----	88.9	----	88.5	----	87.5	----

Analytical Data Qualifiers:

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Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

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Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	DD008				DD009								ED001	
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	5-5.5	5.5-6	6-6.5	6.5-7	5.5-6	5.5-6	6-6.5	6-6.5	6.5-7	6.5-7	7-7.5	7-7.5	5-5.5	5.5-6
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.4-2.9	1.9-2.4	1.4-1.9	0.9-1.4	1.8-2.3	1.8-2.3	1.3-1.8	1.3-1.8	0.8-1.3	0.8-1.3	0.3-0.8	0.3-0.8	3.3-3.8	2.8-3.3
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	DD008 5-5.5	DD008 5.5-6	DD008 6-6.5	DD008 6.5-7	DD009 5.5-6	DD009 5.5-6	DD009 6-6.5	DD009 6-6.5	DD009 6.5-7	DD009 6.5-7	DD009 7-7.5	DD009 7-7.5	ED001 5-5.5	ED001 5.5-6
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44447-9	JB44447-10	JB44447-11	JB44447-12	JB44447-21	JB44447-21R	JB44447-22	JB44447-22R	JB44447-23	JB44447-23R	JB44447-24	JB44447-24R	JB43880-14A	JB43880-15A
Date Sampled:				8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	7/31/2013	7/31/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.5	<2.2 NJ-	<2.4 NJ-	<2.3 NJ-	<2.4 NJ-	----	<2.0 NJ-	----	<2.0 NJ-	----	<2.0 NJ-	----	<2.6 NJ-	<2.5 NJ-
Chromium (mg/kg)	120,000	-	-	19.9	14.9 *ENJ-	20.2 *ENJ-	15.4 *ENJ-	15.5	----	14.6	----	14.7	----	13.5	----	21.6	22.1
Nickel (mg/kg)	23,000	1,600	205**	16	13.7	14	14.9	15.1	----	14.7	----	14.9	----	14.7	----	14.2	15.2
Thallium (mg/kg)	79	5	3	<1.2	<1.1	<1.2	<1.2	<1.2	----	<1.0	----	<1.0	----	<1.0	----	<1.3	<1.2
Vanadium (mg/kg)	1,100	390	-	20.4	17.9 NJ-	17.8 NJ-	19.7 NJ-	19.4	----	17.7	----	18.9	----	18	----	23.7	26.1
Chromium, Hexavalent (mg/kg)	20	-	-	<0.47 NJ-	<0.45 NJ-	<0.48 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.53 NJ-	<0.53 NJ-	<0.50 NJ-	<0.50 NJ-	<0.51 NJ-	<0.51 NJ-	1.6 NJ-	3.5 NJ-
pH	-	-	-	8.38	7.9	7.81	7.97	7.89	----	7.4	----	7.84	----	7.71	----	7.07	7.24
Redox Potential Vs H2 (mV)	-	-	-	141	238	221	238	238	----	222	----	223	----	213	----	276	273
Solids, Percent (%)	-	-	-	85.4	89.1	83.4	81.7	83.3	----	75.8	----	79.7	----	78.9	----	80.1	83.2

Analytical Data Qualifiers:

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Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	ED002				ED003			ED004						ED005			
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	4-4.5	4.5-5	6-6.5	6.5-7	4.5-5	7-7.5	7.5-8	4.5-5	4.5-5	7.5-8	7.5-8	8-8.5	8-8.5	4-4.5	4.5-5	6-6.5	6.5-7
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	4-4.5	3.5-4	2-2.5	1.5-2	3.5-4	1-1.5	0.5-1	3-3.5	3-3.5	0-0.5	0-0.5	-0.5 - 0	-0.5 - 0	3.4-3.9	2.9-3.4	1.4-1.9	0.9-1.4
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	ED002 4-4.5	ED002 4.5-5	ED002 6-6.5	ED002 6.5-7	ED003 4.5-5	ED003 7-7.5	ED003 7.5-8	ED004 4.5-5	ED004 4.5-5	ED004 7.5-8	ED004 7.5-8	ED004 8-8.5	ED004 8-8.5	ED005 4-4.5	ED005 4.5-5	ED005 6-6.5	ED005 6.5-7
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB43880-24A	JB43880-25A	JB43880-26A	JB43880-27A	JB43880-17A	JB43880-18A	JB43880-19A	JB44447-50	JB44447-50R	JB44447-51	JB44447-51R	JB44447-52	JB44447-52R	JB44205-45	JB44205-46	JB44205-47	JB44205-48
Date Sampled:				7/29/2013	7/29/2013	7/30/2013	7/30/2013	8/1/2013	8/1/2013	8/1/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.3 NJ-	<2.5 NJ-	<2.4 NJ-	<2.4 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-	<2.4	----	<2.3	----	<2.4	----	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.5 NJ-
Chromium (mg/kg)	120,000	-	-	32.4	26.9	39.9	17.1	23.8	22.2	28.2	283	----	54	----	51	----	38.7	72.5	470	83.6
Nickel (mg/kg)	23,000	1,600	205**	18.7	13.4	17.9	13.9	14.1	14.7	15	17.2	----	16.4	----	16	----	12.6	16.1	13.6	14.7
Thallium (mg/kg)	79	5	3	<1.2	<1.3	<1.2	<1.2	<1.1	<1.2	<1.2	<1.2	----	<1.2	----	<1.2	----	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	-	30.9	23.2	37.3	25.4	33	24.2	27.5	40.3	----	31.6	----	29.1	----	21.3	32	26.9	27.9
Chromium, Hexavalent (mg/kg)	20	-	-	<0.47 NJ-	<0.50 NJ-	<0.46 NJ-	<0.47 NJ-	0.61 NJ-	4.3 NJ-	0.63 NJ-	<0.46 NJ-	0.72 NJ-	1.2 NJ-	1.3 NJ-	0.94 NJ-	0.57 NJ-	<0.47 NJ-	<0.45 NJ-	0.86 NJ-	<0.49 NJ-
pH	-	-	-	8.32	7.96	8.41	7.88	8.68	7.64	7.93	10.28	----	9.06	----	9.42	----	10.07	9.84	9.48	8.79
Redox Potential Vs H2 (mV)	-	-	-	224	164	171	192	255	222	214	53	----	95.3	----	112	----	84	90.2	142	167
Solids, Percent (%)	-	-	-	84.4	80.6	87.6	84.4	89.2	84.1	87.6	87.1	----	85.3	----	88.1	----	86	89.4	87.7	81.1

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

mV = millivolts

[a] Elevated detection limit due to dilution required for high interfering element.

[+] Hex Chrome Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analyses.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D

Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)

Laboratory Analytical Summary Data for Remaining Soil

PPG Site 63

1 Burma Road

Jersey City, New Jersey

2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	ED006						ED007	ED008	ED009		ED010			
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	4.5-5[+]	4.5-5[+]	5.5-6	5.5-6	6-6.5	6-6.5	5.5-6	6-6.5	5.5-6	5.5-6	7.5-8	7.5-8	8-8.5	8-8.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	3-3.5	3-3.5	2-2.5	2-2.5	1.5-2	1.5-2	2-2.5	1.5-2	2.1-2.6	2.1-2.6	0.5-1	0.5-1	0-0.5	0-0.5
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	ED006 4.5-5	ED006 4.5-5	ED006 5.5-6	ED006 5.5-6	ED006 6-6.5	ED006 6-6.5	ED007 5.5-6	ED008 6-6.5	ED009 5.5-6	ED009 5.5-6	ED010 7.5-8	ED010 7.5-8	ED010 8-8.5	ED010 8-8.5
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)		JB44447-62	JB44447-62R	JB44447-63	JB44447-63R	JB44447-64	JB44447-64R	JB44205-40	JB44205-24	JB44447-56	JB44447-56R	JB44447-71	JB44447-71R	JB44447-72	JB44447-72R
Date Sampled:				8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.2	----	<2.3	----	<2.4	----	<2.0 NJ-	<2.0 NJ-	<2.4	----	<2.4	----	<2.5	----
Chromium (mg/kg)	120,000	-	-	152	----	29	----	13	----	29.5 NJ+	18 NJ+	20.2	----	77.6	----	23.5	----
Nickel (mg/kg)	23,000	1,600	205**	13.8	----	16.5	----	12.2	----	16.3	13.1	16	----	13.5	----	12.2	----
Thallium (mg/kg)	79	5	3	<1.1	----	<1.2	----	<1.2	----	<0.99	<1.0	<1.2	----	<1.2	----	<1.2	----
Vanadium (mg/kg)	1,100	390	-	24.5	----	22.4	----	17.7	----	20.6	17.9	21.6	----	24.6	----	21.6	----
Chromium, Hexavalent (mg/kg)	20	-	-	4.6 NJ-	11.5 NJ-	<0.49 NJ-	<0.49 NJ-	<0.48 NJ-	<0.48 NJ-	<0.51 NJ-	1 NJ-	<0.49 NJ-	<0.49 NJ-	1.3 NJ-	13 NJ-	0.52 NJ-	<0.50 NJ-
pH	-	-	-	9.57	----	8.76	----	8.59	----	7.76	8.8	8.48	----	8.63	----	8.49	----
Redox Potential Vs H2 (mV)	-	-	-	131	----	149	----	161	----	292	329	156	----	165	----	157	----
Solids, Percent (%)	-	-	-	88.5	----	82.3	----	83	----	77.9	77.3	81.4	----	82.9	----	80.2	----

Analytical Data Qualifiers:

< - The analyte was not detected at the stated reporting limit.

***** - Duplicate analysis not within control limits; indeterminate bias direction.

J - The reported result is an estimated value.

***J** - Duplicate analysis not within control limits; result is estimated with indeterminate bias direction.

EJ - The reported value is estimated because of the presence of interference; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.

J+ - The result is estimated and may be biased high.

J- The result is estimated and may be biased low.

R - The reported result is rejected .

Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

mV = millivolts

[a] Elevated detection limit due to dilution required for high interfering element.

[+] Hex Chrome Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analyses.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2D
Historical Soil Samples - Pre-Post-Excavation – Design Borings (2013)
Laboratory Analytical Summary Data for Remaining Soil
PPG Site 63
1 Burma Road
Jersey City, New Jersey
2013- Sampled by CB&I

Sample Location:	NJ	NJ	NJ Default	ED013				FD001			FD002						FD004	
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	5.5-6	6-6.5	6.5-7	7-7.5	6-6.5	6.5-7	7-7.5	4.5-5	4.5-5	5-5.5	5-5.5	5.5-6	5.5-6	6-6.5	6-6.5
Elevations (ft msl)	Direct Contact	Direct Contact	Groundwater	2.4-2.9	1.9-2.4	1.4-1.9	0.9-1.4	2.1-2.6	1.6-2.1	1.1-1.6	3.6-4.1	3.6-4.1	3.1-3.6	3.1-3.6	2.6-3.1	2.6-3.1	1.6-2.1	1.6-2.1
Client Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening	ED013 5.5-6	ED013 6-6.5	ED013 6.5-7	ED013 7-7.5	FD001 6-6.5	FD001 6.5-7	FD001 7-7.5	FD002 4.5-5	FD002 4.5-5	FD002 5-5.5	FD002 5-5.5	FD002 5.5-6	FD002 5.5-6	FD004 6-6.5	FD004 6-6.5
Lab Sample ID:	7:26D 5/12)	7:26D 5/12)	(11/13)	JB44447-5	JB44447-6	JB44447-7	JB44447-8	JB44205-42	JB44205-43	JB44205-44	JB44447-58	JB44447-58R	JB44447-59	JB44447-59R	JB44447-60	JB44447-60R	JB44447-28	JB44447-28R
Date Sampled:				8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/8/2013	8/8/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	<2.0	<2.4	<2.3	<2.4	<2.4 NJ-	<2.4 NJ-	<2.4 NJ-	<2.2	----	<2.4	----	<2.5	----	<2.0 NJ-	----
Chromium (mg/kg)	120,000	-	-	647	15.3	70.9	60.6	18.6	14.9	16.1	214	----	70.5	----	17.7	----	12.6	----
Nickel (mg/kg)	23,000	1,600	205**	18.8	14.7	15.5	15.7	15.6	13.1	13.4	21.4	----	13.4	----	11.4	----	12.7	----
Thallium (mg/kg)	79	5	3	<1.0	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.1	----	<1.2	----	<1.2	----	<0.99	----
Vanadium (mg/kg)	1,100	390	-	35	17.8	22.2	22.2	23	19.7	20.8	47.8	----	21.9	----	16.6	----	16.9	----
Chromium, Hexavalent (mg/kg)	20	-	-	0.53 NJ-	<0.49 NJ-	<0.48 NJ-	<0.49 NJ-	<0.46 NJ-	<0.49 NJ-	<0.47 NJ-	7.4	7.7	9.6	0.97	<0.47	<0.47	<0.52	<0.52
pH	-	-	-	8.35	7.62	7.8	7.99	8.02	7.56	7.6	9.18	----	9.22	----	7.35	----	7.27	----
Redox Potential Vs H2 (mV)	-	-	-	127	123	131	147	284	282	281	176	----	177	----	179	----	200	----
Solids, Percent (%)	-	-	-	75	81.1	83.5	82.1	86.2	81.8	85.8	88.1	----	84.3	----	84.9	----	77.2	----

Analytical Data Qualifiers:

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Notes:

CCPW = Chromate Chemical Production Waste

ft msl = feet mean sea level

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

mV = millivolts

[a] Elevated detection limit due to dilution required for high interfering element.

[+] Hex Chrome Sample did not pass 2nd QA & QC. See Table 2D-2 for secondary analyses.

**Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel; SPLP = Synthetic Precipitation Leaching Procedure.

***Located below water table so IGW SSL does not apply, and compliance averaged to below standards/criteria.

Result exceeded criteria

Table 2F
Historical Soil Samples
Remedial Investigation (2012-2013)
Laboratory Analytical Data for Remaining Soil Remedial Investigation Report
PPG Site 63
1 Burma Road
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_C013				063_C013A				
Sample Depth (ft bgs):				5-5.5	10-10.5	15-15.5	20-20.5	0-0.5	0.5-1	1.5-2	2.5-3	3.5-4
Sample Elevation (ft msl):				2-2.5	-2 - (-2.5)	-7 - (-7.5)	-12 - (-12.5)	10.5-11	10-10.5	9-9.5	8-8.5	7-7.5
Sample ID:				460-48605-17	460-48605-18	460-48605-19	460-48605-27	460-52992-6	460-52992-7	460-52992-8	460-52992-9	460-52992-10
Date:				12/17/2012	12/17/2012	12/17/2012	12/17/2012	03/25/2013	03/25/2013	03/25/2013	03/25/2013	03/25/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	0.42 U	0.41 U	1.2 U	0.41 U	**10.0***	**18.8***	**9.8***	**11.1***	**12.4***
Chromium (mg/kg)	120,000	N/A	N/A	86.7	16.5	14.9	14.3	295	60.5	192	127	94.5
Nickel (mg/kg)	23,000	1,600	205**	12.2	13.4	12.4	11	84.9	51.7	69.3	53.7	54.2
Thallium (mg/kg)	79	5	3	0.2 U	0.19 U	0.58 U	0.19 U	0.22 U	0.21 U	0.23 U	0.20 U	0.21 U
Vanadium (mg/kg)	1,100	390	N/A	20.6	20.6	20.1	22	41.4	37.5	49.6	34.7	30.6
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.85 U	0.85 U	2.4 U	0.83 U	0.63 U	0.59 U	0.66 U	0.56 U	0.58 U

U = NON DETECT

J = ESTIMATED

IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FT MSL = FEET MEAN SEA LEVEL

FT BGS = FEET BELOW GROUND SURFACE

MG/KG= MILLIGRAM PER KILOGRAM

N/A= NOT AVAILABLE

*** METAL EXCEEDANCE AT THIS LOCATION ARE NOT INDICATIVE OF CCPW RELATED CONTAMINATION**

**** SITE SPECIFIC - IGW SSL**

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

Result exceeded criteria

Table 2F
Historical Soil Samples
Remedial Investigation (2012-2013)
Laboratory Analytical Data for Remaining Soil Remedial Investigation Report
PPG Site 63
1 Burma Road
Jersey City, New Jersey

Sample Location:	NJ	NJ	NJ Default	063_C014A					063_F010				
Sample Depth (ft bgs):	Non-Residential	Residential	Impact to	0-0.5	0.5-1	1.5-2	2.5-3	3.5-4	0	5	10	15	20
Sample Elevation (ft msl):	Direct Contact	Direct Contact	Groundwater	7.2-7.7	6.7-7.2	5.7-6.2	4.7-5.2	3.7-4.2	10.7	5.7	0.7	-4.3	-9.3
Sample ID:	Soil (NJAC	Soil (NJAC	Soil Screening (11/13)	460-52992-1	460-52992-2	460-52992-3	460-52992-4	460-52992-5	063_F010_0.0	063_F010_5.0	F010_10.0	063_F010_15.0	063_F010_20.0
Date:	7:26D 5/12)	7:26D 5/12)		03/25/2013	03/25/2013	03/25/2013	03/25/2013	03/25/2013	12/17/2012	12/17/2012	12/17/2012	12/17/2012	12/17/2012
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	1.8	1.7	0.41 U	0.83	0.76	3.3	0.46 U	0.42 U	0.4 U	0.41 U
Chromium (mg/kg)	120,000	N/A	N/A	290	304	18.6	163	220	154	15.1	24.7	14.1	16.8
Nickel (mg/kg)	23,000	1,600	205**	71.5	91.3	11.1	35.6	41.6	65.2	12.5	14.4	9.2	10
Thallium (mg/kg)	79	5	3	0.22 U	0.23 U	0.19 U	0.20 U	0.20 U	0.2 U	0.22 U	0.2 U	0.19 U	0.2 U
Vanadium (mg/kg)	1,100	390	N/A	50.2	46.3	11.8	31.3	37.8	44	21.6	28.7	21	27.7
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.64 U	0.65 U	0.57 U	0.60 U	0.60 U	1.6 J	1.1 J	0.86 U	0.83 U	0.85 U

U = NON DETECT

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IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FT MSL = FEET MEAN SEA LEVEL

FT BGS = FEET BELOW GROUND SURFACE

MG/KG= MILLIGRAM PER KILOGRAM

N/A= NOT AVAILABLE

*** METAL EXCEEDANCE AT THIS LOCATION ARE NOT INDICATIVE OF CCPW RELATED CONTAMINATION**

**** SITE SPECIFIC - IGW SSL**

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

Result exceeded criteria

Table 2F
Historical Soil Samples
Remedial Investigation (2012-2013)
Laboratory Analytical Data for Remaining Soil Remedial Investigation Report
PPG Site 63
1 Burma Road
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_F010a					063_Z002				
Sample Depth (ft bgs):				0-0.5	0.5-1	1.5-2	2.5-3	3.5-4	8.5	12	12	12	16.5
Sample Elevation (ft msl):				10.2-10.7	9.7-10.2	8.7-9.2	7.7-8.2	6.7-7.2	-0.1	-3.6	-3.6	-3.6	-8.1
Sample ID:				460-53059-1	460-53059-2	460-53059-3	460-53059-4	460-53059-5	063_Z002_8.5	063_Z002_12.0	063_Z002_12.0	063_Z002_12.0-D	063_Z002_16.5
Date:				03/25/2013	03/25/2013	03/25/2013	03/25/2013	03/25/2013	12/19/2012	12/19/2012	12/19/2012	12/19/2012	12/19/2012
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	0.54	0.41	0.41	0.88	3.0	0.4 UJ	0.38 UJ	0.38 U	0.38 UJ	0.42 U
Chromium (mg/kg)	120,000	N/A	N/A	34.1	29.0	29.3	163	41.2	15.2	14.5	15.45	16.4	15.5
Nickel (mg/kg)	23,000	1,600	205**	18.5	13.6	22.2	46.6	30.7	13.8	9.5	9.45	9.4	11.1 J
Thallium (mg/kg)	79	5	3	0.27	0.21	0.23	0.23	0.52	0.19 U	0.18 U	0.18 U	0.18 U	0.2 U
Vanadium (mg/kg)	1,100	390	N/A	44.0	32.4	38.4	45.2	49.4	22	18.7	17.9	17.1	23 J
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.69 U	0.58 U	0.56 U	0.67 U	0.63 U	0.87 U	0.85 U	0.83 U	0.81 U	0.83 U

U = NON DETECT

J = ESTIMATED

IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FT MSL = FEET MEAN SEA LEVEL

FT BGS = FEET BELOW GROUND SURFACE

MG/KG= MILLIGRAM PER KILOGRAM

N/A= NOT AVAILABLE

*** METAL EXCEEDANCE AT THIS LOCATION ARE NOT INDICATIVE OF CCPW RELATED CONTAMINATION**

**** SITE SPECIFIC - IGW SSL**

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

Result exceeded criteria

Table 2F
Historical Soil Samples
Remedial Investigation (2012-2013)
Laboratory Analytical Data for Remaining Soil Remedial Investigation Report
PPG Site 63
1 Burma Road
Jersey City, New Jersey

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	063_Z005				MW-9		MW-12		
Sample Depth (ft bgs):				5	10	15	20	3.5-4	6.5-7	0.5-1	3.5-4	7.5-8
Sample Elevation (ft msl):				2.5	-2.5	-7.5	-12.5	6.4-6.9	3.4-3.9	8.8-9.3	5.8-6.3	1.8-2.3
Sample ID:				063_Z005_5.0	063_Z005_10.0	063_Z005_15.0	063_Z005_20.0	460-52992-13	460-53059-11	460-52992-15	460-52992-16	460-53059-13
Date:				12/21/2012	12/21/2012	12/21/2012	12/21/2012	03/25/2013	03/26/2013	03/25/2013	03/25/2013	03/26/2013
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Antimony (mg/kg)	450	31	6	1.9 J	0.66 UJ	0.4 UJ	0.44 UJ	0.47 U	0.43 U	0.46 U	0.52 U	0.44 U
Chromium (mg/kg)	120,000	N/A	N/A	860	245	21.8	11.6	678	24.4	941	44.6	54.1
Nickel (mg/kg)	23,000	1,600	205**	9.9	26.2	10	9.5	13.7	16.5	27.2	14.5	24.7
Thallium (mg/kg)	79	5	3	0.2 U	0.31 U	0.19 U	0.21 U	0.22 U	0.22 J	0.22 U	0.25 U	0.30
Vanadium (mg/kg)	1,100	390	N/A	20.6 J	25.8 J	19.7 J	16.2 J	30.5	38.5	44.6	22.3	62.3
Hexavalent Chromium (mg/kg)	20	N/A	N/A	0.95 U	1.4 U	0.81 U	0.85 U	0.61 U	0.58 U	0.64 U	0.71 U	0.60 U

U = NON DETECT

J = ESTIMATED

IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL

FT MSL = FEET MEAN SEA LEVEL

FT BGS = FEET BELOW GROUND SURFACE

MG/KG= MILLIGRAM PER KILOGRAM

N/A= NOT AVAILABLE

*** METAL EXCEEDANCE AT THIS LOCATION ARE NOT INDICATIVE OF CCPW RELATED CONTAMINATION**

**** SITE SPECIFIC - IGW SSL**

FOR 063_F010, 063_Z002, 063_Z005, MW-9 AND MW-12 DEPTHS/ELEVATIONS PRESENTED IN THIS TABLE REPRESENT THE TOP OF THE SAMPLE INTERVAL OF 0.5-FT.

Result exceeded criteria

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ Non-Residential	NJ Residential	NJ Default Impact to	063_B003a					063_B004		063_B004a		
SAMPLE ID				063_B003a_5.0	063_B003a_5.0-D	063_B003a_6.9	063_B003a_11.0	063_B003a_15.0	063_B004_10.0	063_B004_15.0	063_B004a_8.1	063_B004a_12.0	063_B004a_16.0
LABORATORY ID				460-29144-15	460-29144-16	460-29144-17	460-29144-18	460-29144-19	460-29057-3	460-29057-4	460-29144-6	460-29144-7	460-29144-8
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	5	6.9	11	15	10	15	8.1	12	16
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC 7:26D 5/12)	Soil (NJAC 7:26D 5/12)	Soil Screening (11/13)	3.4	3.4	1.5	-2.6	-6.6	-1.4	-6.4	0.4	-3.5	-7.5
SAMPLE_DATE				7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/22/2011	7/21/2011	7/21/2011	7/22/2011	7/22/2011	7/22/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)													
ANTIMONY	450	31	6	0.96 UJ	0.92 UJ	0.98 UJ	1.2 UJ	0.96 UJ	2.2 UJ	0.95 UJ	0.99 UJ	1.1 UJ	0.93 UJ
CHROMIUM	120,000	N/A	N/A	36.7	32.1	14.9	17.7	26.3	207	15.1	12.9	16.3	14.9
NICKEL	23,000	1,600	205**	17.1	16.3	12.6	4.3 J	13.5	20 J	11.5	10.4	5.5 J	12.3
THALLIUM	79	5	3	1.1 U	1 U	1.1 U	1.3 U	1.1 U	2.5 U	1 U	1.1 U	1.2 U	1 U
VANADIUM	1,100	390	N/A	37.8	31.6	23.6	42.4	24.9	30.7	22.6	17.7	46.3	19.3
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	0.57 U	0.55 U	0.58 U	0.72 U	0.54 U	1.3 U	0.54 U	7.1	0.6 U	0.56 U
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	405	412	410	427	478	346	375	392	334	372
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	8.14	8.02	7.85	7.31	7.96	7.55	8.01	8.43	7.58	8.1

U = NON DETECT
J = ESTIMATED
ft msl = FEET MEAN SEA LEVEL
ft bgs = FEET BELOW GROUND SURFACE
mg/kg = MILLIGRAMS PER KILOGRAM
mv = millivolts
s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B005			063_B006		063_B007			
SAMPLE ID	Non-Residential	Residential	Impact to	063_B005_11.4	063_B005_15.5	063_B005_20.0	063_B006_10.0	063_B006_12.2	063_B007_7.1	063_B007_11.1	063_B007_15.0	063_B007_15.0-D
LABORATORY ID				460-28939-9	460-28939-10	460-28939-11	460-28862-5	460-28862-6	460-28939-3	460-28939-4	460-28939-5	460-28939-6
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	11.4	15.5	20	10	12.2	7.1	11.1	15	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	-3.8	-7.9	-12.4	-2.9	-5.1	0.4	-3.6	-7.5	-7.5
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/19/2011	7/19/2011	7/19/2011	7/15/2011	7/15/2011	7/19/2011	7/19/2011	7/19/2011	7/19/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	0.93 UJ	0.97 UJ	0.94 UJ	2.6 UJ	1.1 UJ	0.9 UJ	3.3 UJ	0.95 UJ	0.97 UJ
CHROMIUM	120,000	N/A	N/A	29.3	14.4	33.1	932 J	13.1 J	11.8	14.2	14	16.7
NICKEL	23,000	1,600	205**	13.2	6.2 J	12.5	20.6 J	8.4 J	11.4	13.3 J	6.2 J	6.6 J
THALLIUM	79	5	3	1 U	1.1 U	1 U	2.8 U	1.3 U	0.99 U	3.6 U	1 U	1.1 U
VANADIUM	1,100	390	N/A	25	15.5	23.1	20.6 J	22.6	15.6	18 J	15.3	17.1
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.54 UJ	0.55 UJ	0.54 UJ	1.5 UJ	0.64 UJ	0.55 UJ	1.9 UJ	0.57 UJ	0.57 UJ
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	338	450	448	384	513	445	391	388	394
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9.03	8.36	8.57	8.09	8.01	8.78	7.61	8.79	8.64

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ft bgs = FEET BELOW GROUND SURFACE
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mv = millivolts
s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B008				063_B009		063_B010		
SAMPLE ID	Non-Residential	Residential	Impact to	063_B008_6.5	063_B008_10.0	063_B008_12.8	063_B008_16.5	063_B009_9.3	063_B009_13.0	063_B010_7.3	063_B010_11.0	063_B010_15.0
LABORATORY ID				460-29032-13	460-29032-14	460-29032-15	460-29032-16	460-28645-9	460-28645-10	460-29336-5	460-29336-6	460-29336-7
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	6.5	10	12.8	16.5	9.3	13	7.3	11	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	1.7	-1.8	-4.6	-8.3	-1	-4.7	1.1	-2.6	-6.6
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/11/2011	7/11/2011	7/28/2011	7/28/2011	7/28/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	0.95 UJ	0.96 UJ	0.97 UJ	0.95 UJ	0.67 UJ	0.65 UJ	0.91 UJ	2.9 UJ	0.9 UJ
CHROMIUM	120,000	N/A	N/A	15.9	27.2	21	34.7	22.3	27.8	13.5	13	41.8
NICKEL	23,000	1,600	205**	13.3	20.2	14.2	19.9	16.9	15.9	11.1	13.7 J	12.1
THALLIUM	79	5	3	1 U	1.1 U	1.1 U	1 U	0.37 U	0.36 U	1 U	3.2 U	0.99 U
VANADIUM	1,100	390	N/A	20.8	27.1	24.1	48.2	33 J	43.1 J	28.2	19.8 J	44.2
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.55 U	0.54 U	0.56 U	0.52 U	0.6 UJ	0.57 UJ	0.54 U	1.6 U	0.55 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	347	369	395	399	433	472	346	382	379
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9.27	8.69	7.99	8.22	8.82	8.27	9.4	7.54	8.35

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s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B010a					063_B011			
SAMPLE ID	Non-Residential	Residential	Impact to	063_B010a_5.0	063_B010a_7.5	063_B010a_11.5	063_B010a_15.0	063_B010a_15.0-D	063_B011_5.0	063_B011_10.0	063_B011_15.0	063_B011_18.0
LABORATORY ID				460-29302-15	460-29302-16	460-29302-17	460-29302-18	460-29302-19	460-29355-14	460-29355-15	460-29355-16	460-29355-17
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	7.5	11.5	15	15	5	10	15	18
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	3.3	0.8	-3.2	-6.7	-6.7	2.7	-2.3	-7.3	-10.3
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	0.97 UJ	1 UJ	1.1 UJ	0.88 UJ	0.9 UJ	1 UJ	1.4 UJ	0.97 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	28.9 J	12.5 J	21.5	38.9	33.9	74.1 J	32.1 J	21.6 J	25.1 J
NICKEL	23,000	1,600	205**	10.2	11.9	12.8	16.7	17.3	14.1	24.4	13.2	13.7
THALLIUM	79	5	3	1.1 U	1.1 U	1.2 U	0.97 U	0.99 U	1.1 U	1.5 U	1.1 U	1.1 U
VANADIUM	1,100	390	N/A	16.9	15.2	29.7	36.5	39.5	27.6	29	28.9	34.4
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.6 U	0.64 U	0.66 U	0.54 U	0.55 U	0.57 U	0.82 U	0.58 U	0.56 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	434	433	438	412	423	417	420	427	407
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.4	7.66	7.47	9.18	8.87	8.4	8.04	7.59	8.99

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ft bgs = FEET BELOW GROUND SURFACE
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s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B012/MW3				063_B013		
SAMPLE ID	Non-Residential	Residential	Impact to	063_B012_5.0	063_B012_10.5	063_B012_15.0	063_B012_17.0	063_B013_5.0	063_B013_10.0	063_B013_15.0
LABORATORY ID				460-28645-2	460-28645-3	460-28645-4	460-28645-5	460-29336-22	460-29336-23	460-29336-24
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	10.5	15	17	5	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	2.2	-3.3	-7.8	-9.8	3.9	-1.1	-6.1
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/28/2011	7/28/2011	7/28/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)										
ANTIMONY	450	31	6	0.58 UJ	0.6 UJ	0.66 UJ	0.63 UJ	0.98 UJ	2.2 J	2.7 UJ
CHROMIUM	120,000	N/A	N/A	14.7	18.1	12.7	17.4	155	9.6	22.4
NICKEL	23,000	1,600	205**	13.1	16.3	7.7	12.6	16.6	10 J	12 J
THALLIUM	79	5	3	0.32 U	0.33 U	0.37 U	0.35 U	1.1 U	1.2 U	3 U
VANADIUM	1,100	390	N/A	23.2 J	24.8 J	21.3 J	33 J	30.3	10.8 J	24.5 J
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.55 UJ	0.56 UJ	0.58 UJ	0.55 UJ	0.56 UJ	0.64 UJ	1.6 UJ
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	455	455	435	429	439	413	399
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	8.2	8.13	7.47	8.16	8.12	8.16	7.84

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ft bgs = FEET BELOW GROUND SURFACE
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mv = millivolts
s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_B014				063_B015/MW4						
SAMPLE ID	Non-Residential	Residential	Impact to	063_B014_7.0	063_B014_11.2	063_B014_15.0	063_B014_20.0	063_B015_0.0	063_B015_4.0	063_B015_7.3	063_B015_10.5	063_B015_10.5-D	063_B015_15.0	063_B015_17.3
LABORATORY ID				460-29195-20	460-29195-21	460-29195-22	460-29195-23	460-28783-1	460-28783-2	460-28783-3	460-28783-4	460-28783-5	460-28783-6	460-28783-7
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	7	11.2	15	20	0	4	7.3	10.5	10.5	15	17.3
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	1.5	-2.7	-6.5	-11.5	7	3	-0.3	-3.5	-3.5	-8	-10.3
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011	7/14/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)														
ANTIMONY	450	31	6	1 UJ	2.1 J	2.2 UJ	0.9 UJ	0.91 UJ	0.95 UJ	1.1 UJ	8.7 J	4.8 J	2.5 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	16	14.1	26.3	20.1	51.4 J	15.1 J	13.4 J	45.2 J	26.4 J	208 J	8.1 J
NICKEL	23,000	1,600	205**	18	12.6	15.7 J	11.4	24.9	14.6	16.3	18.6	17.5	16.1 J	5.6 J
THALLIUM	79	5	3	1.1 U	1.4 U	2.4 U	0.99 U	1 U	1 U	1.2 U	1.5 U	1.5 U	2.8 U	1.1 U
VANADIUM	1,100	390	N/A	12.3	19.3	25.3	23.4	50.9	22.7	15.5	15 J	13.5 J	24.5 J	12.7
Miscellaneous Parameters (mg/kg)														
HEXAVALENT CHROMIUM	20	N/A	N/A	0.66 J	0.74 UJ	1.3 UJ	0.54 UJ	0.52 J	0.55 U	0.67 U	0.75 U	0.82 J	1.5 U	0.62 U
Miscellaneous Parameters (mv)														
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	375	322	338	430	402	480	391	376	366	382	384
Miscellaneous Parameters (s.u.)														
PH	N/A	N/A	N/A	8.19	7.69	7.55	5.03	7.91	7.91	7.81	7.65	7.66	7.25	7.96

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**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
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EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C003				063_C004		
SAMPLE ID	Non-Residential	Residential	Impact to	063_C003_5.0	063_C003_5.0-D	063_C003_6.7	063_C003_10.5	063_C004_10.0	063_C004_10.0-D	063_C004_15.0
LABORATORY ID				460-29057-6	460-29057-7	460-29057-8	460-29057-9	460-29057-15	460-29057-16	460-29057-17
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	5	6.7	10.5	10	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	3.4	3.4	1.7	-2.1	-1.5	-1.5	-6.5
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011	7/21/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)										
ANTIMONY	450	31	6	1.1 UJ	1 UJ	1.1 UJ	1.9 J	1.6 UJ	1.5 UJ	0.92 UJ
CHROMIUM	120,000	N/A	N/A	45.4 J	26.5 J	11.9 J	66.5 J	33.3	22.9	19.3
NICKEL	23,000	1,600	205**	11.8	11.4	10.5	11.1	7.9 J	8 J	10.9
THALLIUM	79	5	3	1.2 U	1.1 U	1.2 U	1.1 U	1.8 U	1.7 U	1 U
VANADIUM	1,100	390	N/A	19.3	18.3	17.7	50.5	30.6	35.5	19.7
Miscellaneous Parameters (mg/kg)										
HEXAVALENT CHROMIUM	20	N/A	N/A	0.6 U	0.6 U	0.61 U	0.61 U	0.94 U	0.91 U	0.55 U
Miscellaneous Parameters (mv)										
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	367	365	368	487	391	393	398
Miscellaneous Parameters (s.u.)										
PH	N/A	N/A	N/A	7.92	7.88	7.6	7.83	7.47	7.41	7.94

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Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C004a			063_C005			063_C006		
SAMPLE ID	Non-Residential	Residential	Impact to	063_C004a_6.7	063_C004a_11.0	063_C004a_15.0	063_C005_7.5	063_C005_11.5	063_C005_15.5	063_C006_7.5	063_C006_11.5	063_C006_15.5
LABORATORY ID				460-29144-21	460-29144-11	460-29144-22	460-28742-9	460-28742-10	460-28742-11	460-28742-16	460-28742-17	460-28742-18
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	6.7	11	15	7.5	11.5	15.5	7.5	11.5	15.5
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	1.8	-2.5	-6.5	-0.1	-4.1	-8.1	0.4	-3.6	-7.6
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/22/2011	7/22/2011	7/22/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011	7/13/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	1.1 UJ	0.92 UJ	0.89 UJ	0.93 UJ	0.93 UJ	2.4 UJ	0.99 UJ	0.96 UJ	0.95 UJ
CHROMIUM	120,000	N/A	N/A	9.8	18.8	50.8	479 J	14.9 J	2470 J	17.3 J	12.1 J	12.3 J
NICKEL	23,000	1,600	205**	9.8	13.1	16.2	12.9 J	8.9 J	15.3 J	14.3	6.1 J	12.2
THALLIUM	79	5	3	1.2 U	1 U	0.98 U	1 U	1 U	2.7 U	1.1 U	1.1 U	1 U
VANADIUM	1,100	390	N/A	15.3	20.2	22.3	19	24.2	29.9	19.6	16.7	15.2
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.61 U	0.55 U	0.53 U	1.4 J	0.56 U	0.56 U	0.6 U	0.55 U	0.54 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	465	501	396	265	460	457	323	358	364
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	8.38	8.28	7.58	9.79	8.26	8.17	8.96	8.11	8.27

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Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_C007			063_C008				063_C009		
SAMPLE ID	Non-Residential	Residential	Impact to	063_C007_8.0	063_C007_12.0	063_C007_16.0	063_C008_5.0	063_C008_6.7	063_C008_11.0	063_C008_15.0	063_C009_5.0	063_C009_6.5	063_C009_14.0
LABORATORY ID				460-28742-22	460-28742-23	460-28742-24	460-29032-6	460-29032-7	460-29032-8	460-29032-9	460-29032-2	460-29032-3	460-29032-4
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	8	12	16	5	6.7	11	15	5	6.5	14
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	-0.1	-4.1	-8.1	3.1	1.4	-2.9	-6.9	3.5	2	-5.5
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/13/2011	7/13/2011	7/13/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011	7/20/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)													
ANTIMONY	450	31	6	1.1 UJ	0.98 UJ	1 UJ	0.98 UJ	1 UJ	1 UJ	0.9 UJ	1 UJ	1 UJ	2.3 UJ
CHROMIUM	120,000	N/A	N/A	12.9 J	19.6 J	13.4 J	19.9	16	17.8	35	70.1	14.5	29.8
NICKEL	23,000	1,600	205**	13.4	14.2	12.8	12	13.3	11	16.6	9.6	11.7	10.6 J
THALLIUM	79	5	3	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.99 U	1.1 U	1.1 U	2.5 U
VANADIUM	1,100	390	N/A	16.5	21.5	19.7	17.6	21.7	22.6	37.7	18.5	21.4	21.5 J
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	0.61 U	0.55 U	0.56 U	0.6 U	0.61 U	0.57 U	0.52 U	0.59 U	0.59 U	0.54 U
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	375	391	414	361	374	400	488	433	449	292
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	8.2	8.44	7.87	9.05	8.02	7.82	8.42	9.13	8.29	7.14

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Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
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SAMPLE LOCATION	NJ	NJ	NJ Default	063_C009a		063_C010			063_C011			
SAMPLE ID	Non-Residential	Residential	Impact to	063_C009a_10.0	063_C009a_15.0	063_C010_6.4	063_C010_10.5	063_C010_15.0	063_C011_5.0	063_C011_6.7	063_C011_10.5	063_C011_15.0
LABORATORY ID				460-29302-28	460-29302-29	460-29302-23	460-29302-24	460-29302-25	460-29195-12	460-29195-13	460-29195-14	460-29195-15
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	10	15	6.4	10.5	15	5	6.7	10.5	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	-2.1	-7.1	1.7	-2.4	-6.9	2.7	1	-2.8	-7.3
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	0.91 UJ	6.6 J^	1 UJ	0.99 UJ	0.94 UJ	0.98 UJ	1.1 UJ	1.1 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	49.6	3570	14.4	39.6	31.5	24.5	11.8	21.9	40.4
NICKEL	23,000	1,600	205**	10.7	15.8	13.7	20.1	13.4	12.3	11.9	12.3	20.4
THALLIUM	79	5	3	1 U	1 U	1.1 U	1.1 U	1 U	1.1 U	1.2 U	1.2 U	1.1 U
VANADIUM	1,100	390	N/A	23.7	87.6	17.8	48	34.7	19	15.5	26.4	47.2
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	1.1 J	8.1	0.59 U	0.56 U	0.55 U	0.56 UJ	0.6 UJ	0.62 UJ	0.58 UJ
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	347	429	486	472	467	436	438	451	434
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9.43	10.1	7.92	8.3	8.87	8.26	7.66	8.05	8.5

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Table 2G
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Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
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SAMPLE LOCATION	NJ	NJ	NJ Default	063_C012			063_D003/MW5		
SAMPLE ID	Non-Residential	Residential	Impact to	063_C012_6.4	063_C012_10.5	063_C012_15.8	063_D003_6.7	063_D003_13.0	063_D003_17.0
LABORATORY ID				460-29336-16	460-29336-17	460-29336-18	460-28742-3	460-28742-4	460-28742-5
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	6.4	10.5	15.8	6.7	13	17
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	1.3	-2.8	-8.1	2.4	-3.9	-7.9
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/28/2011	7/28/2011	7/28/2011	7/13/2011	7/13/2011	7/13/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)									
ANTIMONY	450	31	6	0.98 UJ	3.4 UJ	0.95 UJ	0.93 UJ	0.87 UJ	0.92 UJ
CHROMIUM	120,000	N/A	N/A	15.5	21.8	26.9	16.2	18.7	9.3
NICKEL	23,000	1,600	205**	11.9	19 J	14.7	12.4	11.6	7.3 J
THALLIUM	79	5	3	1.1 U	3.7 U	1 U	1 U	0.96 U	1 U
VANADIUM	1,100	390	N/A	21.3	27.7 J	35.3	23	29.8	14.6
Miscellaneous Parameters (mg/kg)									
HEXAVALENT CHROMIUM	20	N/A	N/A	0.59 U	2 U	0.56 U	0.53 UJ	0.55 UJ	0.54 UJ
Miscellaneous Parameters (mv)									
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	440	433	457	375	389	404
Miscellaneous Parameters (s.u.)									
PH	N/A	N/A	N/A	8.16	8.08	7.78	9.33	9.11	8.85

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Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
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Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D004					063_D005		
SAMPLE ID	Non-Residential	Residential	Impact to	063_D004_5.0	063_D004_6.7	063_D004_10.5	063_D004_10.5-D	063_D004_15.0	063_D005_6.0	063_D005_10.0	063_D005_15.0
LABORATORY ID				460-29195-5	460-29195-4	460-29195-6	460-29195-7	460-29195-8	460-28783-12	460-28783-13	460-28783-14
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	6.7	10.5	10.5	15	6	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	3.6	1.9	-1.9	-1.9	-6.4	2.6	-1.4	-6.4
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/25/2011	7/14/2011	7/14/2011	7/14/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)											
ANTIMONY	450	31	6	1.1 UJ	1.5 J	0.92 UJ	0.93 UJ	0.97 UJ	1.4 UJ	0.95 UJ	0.92 UJ
CHROMIUM	120,000	N/A	N/A	28.2	46.2	23.2	20.2	13	13.8 J	53.8 J	35.9 J
NICKEL	23,000	1,600	205**	9.5 J	14.6	12.9	11.1	11.4	12.1 J	12.4	14.1
THALLIUM	79	5	3	1.3 U	1.1 U	1 U	1 U	1.1 U	1.5 U	1 U	1 U
VANADIUM	1,100	390	N/A	22.5	60	27.1	32.5	18.2	20.1	28.8	56.7
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.65 UJ	0.56 UJ	0.55 UJ	0.55 UJ	0.53 UJ	0.78 U	0.54 U	0.51 U
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	438	438	429	429	433	413	404	428
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	7.81	8.18	8.65	8.76	8.66	6.95	8	8.76

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Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
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Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D006/MW6				063_D007			
SAMPLE ID	Non-Residential	Residential	Impact to	063_D006_5.0	063_D006_6.5	063_D006_10.0	063_D006_15.0	063_D007_5.7	063_D007_10.0	063_D007_10.0-D	063_D007_15.0
LABORATORY ID				460-28661-6	460-28661-7	460-28661-8	460-28661-9	460-29302-6	460-29302-7	460-29302-8	460-29302-9
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	6.5	10	15	5.7	10	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	3	1.5	-2	-7	2.5	-1.8	-1.8	-6.8
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/12/2011	7/12/2011	7/12/2011	7/12/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)											
ANTIMONY	450	31	6	0.66 UJ	0.69 UJ	0.61 UJ	0.57 UJ	1 UJ	0.92 UJ	0.92 UJ	0.88 UJ
CHROMIUM	120,000	N/A	N/A	3850	15.4	19.9	46.5	14.6 J	21.7 J	20.2 J	19 J
NICKEL	23,000	1,600	205**	11.3	12.6	8.2	13.8	13.3	12.2	12.4	12.1
THALLIUM	79	5	3	0.36 U	0.38 U	0.34 U	1 J	1.1 U	1 U	1 U	0.97 U
VANADIUM	1,100	390	N/A	13	16.6	36.5	86.2	16.5	21.4	19.8	28.3
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.62 U	0.64 U	0.56 U	0.55 U	0.65 U	0.57 U	0.57 U	0.56 U
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	229	292	322	334	344	367	389	528
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.83	7.98	8.09	8.94	7.16	8.13	8.13	8

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**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D008			063_D009/MW7			063_D010		
SAMPLE ID	Non-Residential	Residential	Impact to	063_D008_5.0	063_D008_10.0	063_D008_15.0	063_D009_5.0	063_D009_10.0	063_D009_13.2	063_D010_5.1	063_D010_10.0	063_D010_15.0
LABORATORY ID				460-29302-11	460-29302-12	460-29302-13	460-28661-2	460-28661-3	460-28661-4	460-29233-24	460-29233-25	460-29233-26
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	10	15	5	10	13.2	5.1	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	3.1	-1.9	-6.9	3.6	-1.4	-4.6	3.2	-1.7	-6.7
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/27/2011	7/27/2011	7/27/2011	7/12/2011	7/12/2011	7/12/2011	7/26/2011	7/26/2011	7/26/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	1.1 UJ	1 UJ	0.92 UJ	0.63 UJ	0.62 UJ	0.63 UJ	0.99 UJ	0.94 UJ	0.97 UJ
CHROMIUM	120,000	N/A	N/A	10.9 J	35.7 J	33.5	23.4	46.5	26.9	25.6 J	49.9 J	39.4 J
NICKEL	23,000	1,600	205**	10.2	18	19.4	12.6	11.2	15.2	12.8	18.5	12
THALLIUM	79	5	3	1.2 U	1.1 U	1 U	0.35 U	0.35 U	0.35 U	1.1 U	1 U	1.1 U
VANADIUM	1,100	390	N/A	13.7	46.9	41.9	22.8	24.7	30.7	23.6	46.8	22.5
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.68 U	0.55 U	0.54 U	0.6 U	0.57 U	0.55 U	0.58 U	0.55 U	0.55 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	461	467	485	288	351	362	498	471	501
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	7.65	8	8.34	8.63	8.38	8.4	8.28	8.92	8.81

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Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_D011					063_E003				
SAMPLE ID	Non-Residential	Residential	Impact to	063_D011_0.0	063_D011_7.0	063_D011_11.0	063_D011_11.0-D	063_D011_15.0	063_E003_0.0	063_E003_6.0	063_E003_10.5	063_E003_10.5-D	063_E003_15.0
LABORATORY ID				460-29336-10	460-29336-11	460-29336-12	460-29336-13	460-29336-14	460-29233-1	460-29233-2	460-29233-3	460-29233-4	460-29233-5
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	0	7	11	11	15	0	6	10.5	10.5	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	9.7	2.7	-1.3	-1.3	-5.3	10.3	4.3	-0.2	-0.2	-4.7
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011
ABOVE/BELOW GW TABLE				ABOVE	BELOW	BELOW	BELOW	BELOW	ABOVE	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)													
ANTIMONY	450	31	6	1 UJ	1 U	0.93 U	0.98 U	0.98 U	0.9 UJ	0.96 UJ	0.94 UJ	0.93 UJ	0.9 UJ
CHROMIUM	120,000	N/A	N/A	303	12.5	28	33.3	39.1	28.9 J	19.4 J	15.1 J	14.8 J	17.7 J
NICKEL	23,000	1,600	205**	29.8	12.9	15.6	17.2	16.5	33.8	13.3	13.3	11.8	10.2
THALLIUM	79	5	3	1.1 U	1.1 U	1 U	1.1 U	1.1 U	0.99 U	1.1 U	1 U	1 U	0.98 U
VANADIUM	1,100	390	N/A	54	16.3	38.7	42.6	41.4	51.1	27.9	21.9	23	22.4
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	1.4 J	0.62 U	0.56 U	0.57 U	0.56 U	0.54 U	0.73 J	0.55 U	0.54 U	0.53 U
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	459	450	426	427	429	518	456	461	462	468
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	7.67	7.38	8.86	8.99	8.72	8.03	9.12	9.05	8.89	8.71

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Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E004				063_E005				
SAMPLE ID	Non-Residential	Residential	Impact to	063_E004_6.5	063_E004_11.0	063_E004_15.0	063_E004_18.3	063_E005_0.0	063_E005_0.5	063_E005_6.0	063_E005_10.0	063_E005_15.0
LABORATORY ID				460-29233-7	460-29233-8	460-29233-9	460-29233-10	460-29233-11	460-29233-12	460-29233-13	460-29233-14	460-29233-15
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	6.5	11	15	18.3	0	0.5	6	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	7.4	2.9	-1.1	-4.4	9.3	8.8	3.3	-0.7	-5.7
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	ABOVE	ABOVE	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	0.9 UJ	1 UJ	0.91 UJ	0.95 UJ	0.94 UJ	0.91 UJ	0.99 UJ	0.97 UJ	0.92 UJ
CHROMIUM	120,000	N/A	N/A	28.7 J	15.2 J	19 J	9.8 J	302 J	53.5 J	13.5 J	26.2 J	14.3 J
NICKEL	23,000	1,600	205**	18.1	11	10.6	6.6 J	28.4	7.8 J	10.6	16.2	10.9
THALLIUM	79	5	3	0.99 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1.1 U	1 U
VANADIUM	1,100	390	N/A	37.1	24.5	24.6	16.5	61.3	9 J	21.1	38.4	21.3
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.55 U	0.57 U	0.54 U	0.55 U	1.7 J	0.52 U	0.58 U	0.55 U	0.53 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	451	456	481	475	499	507	455	460	474
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9.03	8.81	8.6	8.08	8.12	8.52	8.23	8.31	8.7

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Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	063_E006				063_E007			
SAMPLE ID	Non-Residential	Residential	Impact to	063_E006_0.0	063_E006_6.0	063_E006_10.0	063_E006_15.0	063_E007_0.0	063_E007_5.0	063_E007_10.0	063_E007_15.0
LABORATORY ID				460-29233-18	460-29233-19	460-29233-20	460-29233-21	460-29302-1	460-29302-2	460-29302-3	460-29302-4
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	0	6	10	15	0	5	10	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	8.9	2.9	-1.1	-6.1	8.1	3.1	-1.9	-6.9
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011
ABOVE/BELOW GW TABLE				ABOVE	BELOW	BELOW	BELOW	ABOVE	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)											
ANTIMONY	450	31	6	0.87 UJ	1 UJ	0.95 UJ	0.93 UJ	0.96 J	1.2 UJ	0.96 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	152 J	12.2 J	27.7 J	28.5 J	328 J	12.6 J	13 J	21.3 J
NICKEL	23,000	1,600	205**	24	10.4	11.4	13.7	28.2	11.5	11.3	12.9
THALLIUM	79	5	3	0.96 U	1.1 U	1 U	1 U	1 U	1.3 U	1.1 U	1.1 U
VANADIUM	1,100	390	N/A	45.4	16.2	21.9	32.4	66.6	14.2	19	29.1
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	1.7 J	0.59 U	0.55 U	0.55 U	4.4	0.69 U	0.56 U	0.56 U
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	351	366	369	505	493	407	408	419
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.11	7.55	8.05	8.21	8.15	7.36	8.12	8.17

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Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
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Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A005					065_A006			
SAMPLE ID	Non-Residential	Residential	Impact to	065_A005_5.0	065_A005_5.0-D	065_A005_10.0	065_A005_15.0	065_A005_17.5	065_A006_8.2	065_A006_11.7	065_A006_11.7-D	065_A006_15.0
LABORATORY ID				460-29456-20	460-29456-21	460-29456-22	460-29456-23	460-29456-24	460-29456-15	460-29456-14	460-29456-16	460-29456-18
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	5	10	15	17.5	8.2	11.7	11.7	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	2.7	2.7	-2.3	-7.3	-9.8	-0.9	-4.4	-4.4	-7.7
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	1.4 UJ	5.7 UJ	1.1 UJ	0.99 UJ	0.99 UJ	12.7 UJ	1.1 UJ	1.1 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	7060	9090	206	92.1	18	12400	18.3	21.1	100
NICKEL	23,000	1,600	205**	14.4	18.5 J	11.6	12.6	10.9	22.7 J	7.7 J	7.4 J	7.7 J
THALLIUM	79	5	3	1.6 U	6.3 U***	1.2 U	1.1 U	1.1 U	5.6 U***	1.2 U	1.2 U	1.1 U
VANADIUM	1,100	390	N/A	40.2	52.4 J	32.8	20.9	18.2	52.8 J	27.3	29.7	20.8
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.66 U	0.75 J	0.69 U	0.59 U	0.56 U	4.2	0.62 U	0.65 U	0.61 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	201	213	338	381	481	214	332	337	344
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	10.4	10.3	8.92	8.26	7.99	11.7	7.75	7.73	7.91

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Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
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SAMPLE LOCATION	NJ	NJ	NJ Default	065_A007				065_A008			065_A009	
SAMPLE ID	Non-Residential	Residential	Impact to	065_A007_6.9	065_A007_6.9-D	065_A007_11.0	065_A007_15.0	065_A008_7.0	065_A008_10.4	065_A008_15.0	065_A009_6.0	065_A009_15.0
LABORATORY ID				460-29456-9	460-29456-10	460-29456-11	460-29456-12	460-29456-4	460-29456-5	460-29456-6	460-29456-34	460-29456-35
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	6.9	6.9	11	15	7	10.4	15	6	15
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	0.5	0.5	-3.6	-7.6	0.6	-2.8	-7.4	1.5	-7.5
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)												
ANTIMONY	450	31	6	9.2 J	10.6 J	3.5 UJ	1 UJ	3.1 J	1.4 UJ	1 UJ	6.1 J	0.9 UJ
CHROMIUM	120,000	N/A	N/A	50.9 J	44 J	23.1 J	23.4	1510 J	490 J	30.8 J	23.2	95.9
NICKEL	23,000	1,600	205**	17.3	19.8	8.8 J	8.8 J	14.3	14.9	9.9	11.3	17.7
THALLIUM	79	5	3	1.3 U	1.2 U	3.8 U^	1.1 U	1.1 U	1.6 U	1.1 U	1.1 U	0.99 U
VANADIUM	1,100	390	N/A	27.8	42.1	21.1 J	24.4	30	24.1	26.7	7.9 J	38.5
Miscellaneous Parameters (mg/kg)												
HEXAVALENT CHROMIUM	20	N/A	N/A	0.66 U	0.67 U	2 U	0.6 U	9.5	0.84 U	0.58 U	0.6 U	0.55 U
Miscellaneous Parameters (mv)												
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	218	137	454	428	340	387	450	410	398
Miscellaneous Parameters (s.u.)												
PH	N/A	N/A	N/A	9.57	9.65	7.96	8.38	10	8.37	7.94	8.01	8.75

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***** COMPLIANCE AVERAGED BELOW STANDARD**
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Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A010		065_A011			065_A012				
SAMPLE ID	Non-Residential	Residential	Impact to	065_A010_15.0	065_A010_15.0-D	065_A011_10.0	065_A011_15.0	065_A011_18.0	065_A012_5.0	065_A012_10.0	065_A012_10.0-D	065_A012_15.0	065_A012_18.5
LABORATORY ID				460-29456-38	460-29456-39	460-29355-9	460-29355-10	460-29355-11	460-29456-26	460-29456-27	460-29456-28	460-29456-29	460-29456-30
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	15	15	10	15	18	5	10	10	15	18.5
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	-7.5	-7.5	-2.4	-7.4	-10.4	2.7	-2.3	-2.3	-7.3	-10.8
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	8/1/2011	8/1/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)													
ANTIMONY	450	31	6	0.93 UJ	0.98 UJ	1.1 UJ	0.97 UJ	0.91 UJ	0.99 UJ	1.7 UJ	1.7 UJ	0.99 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	32.6	34.6	13.7 J	14.1 J	20.9 J	21.8	243 J	121 J	50.1	14.2
NICKEL	23,000	1,600	205**	12.3	15.6	12.1	9.3	16	13.1	24.7	23.1	7.2 J	13.7
THALLIUM	79	5	3	1 U	1.1 U	1.2 U	1.1 U	1 U	1.1 U	1.8 U	1.9 U	1.1 U	1.1 U
VANADIUM	1,100	390	N/A	28.8	34.3	20.7	21.2	32.6	28.3	33.2	33.1	19.7	20.5
Miscellaneous Parameters (mg/kg)													
HEXAVALENT CHROMIUM	20	N/A	N/A	0.53 U	0.54 U	0.59 U	0.58 U	0.55 U	0.55 U	0.99 U	1 U	0.58 U	0.59 U
Miscellaneous Parameters (mv)													
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	382	390	449	428	430	449	452	442	433	428
Miscellaneous Parameters (s.u.)													
PH	N/A	N/A	N/A	9.16	9.04	7.29	8.32	8.97	8.32	7.79	7.83	7.84	8.49

U = NON DETECT
J = ESTIMATED
ft msl = FEET MEAN SEA LEVEL
ft bgs = FEET BELOW GROUND SURFACE
mg/kg = MILLIGRAMS PER KILOGRAM
mv = millivolts
s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A013				065_A014			
SAMPLE ID	Non-Residential	Residential	Impact to	065_A013_5.0	065_A013_10.0	065_A013_15.5	065_A013_17.0	065_A014_10.0	065_A014_10.0-D	065_A014_15.0	065_A014_16.7
LABORATORY ID				460-29355-3	460-29355-4	460-29355-5	460-29355-6	460-29469-5	460-29469-6	460-29469-7	460-29469-8
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	5	10	15.5	17	10	10	15	16.7
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	1.7	-3.3	-8.8	-9.3	-3.1	-3.1	-8.1	-9.8
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	7/28/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011
ABOVE/BELOW GW TABLE				BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)											
ANTIMONY	450	31	6	1.9 J	4.3 J	3.2 UJ	0.96 UJ	6 J	5.9 J	2.4 UJ	1.1 UJ
CHROMIUM	120,000	N/A	N/A	22.3	11.3	13.3 J	17.1	22	25	221	3.6
NICKEL	23,000	1,600	205**	12.5	19.1	13.9 J	13.2	18.6	15.1	26.7	1.5 J
THALLIUM	79	5	3	1.1 U	1.4 U	3.5 UJ	1.1 U	1.5 U	1.5 U	2.6 U	1.2 U
VANADIUM	1,100	390	N/A	14.4	14.5	18.4 J	24.8	17.4	15.7	35.2	7.6 J
Miscellaneous Parameters (mg/kg)											
HEXAVALENT CHROMIUM	20	N/A	N/A	0.59 U	0.72 U	2 U	0.57 U	0.76 UJ	0.74 UJ	1.3 UJ	0.64 UJ
Miscellaneous Parameters (mv)											
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	479	411	374	404	348	351	347	368
Miscellaneous Parameters (s.u.)											
PH	N/A	N/A	N/A	8.3	8.01	7.76	7.03	7.75	7.71	7.71	7.2

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ft bgs = FEET BELOW GROUND SURFACE
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mv = millivolts
s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2G
Historical Soil Samples
Remedial Investigation (2011-2012)
Laboratory Analytical Data for Remaining Soil
PPG Site 63 Remedial Investigation Report
1 Burma Road,
Jersey City, New Jersey
Sampled by TetraTech

SAMPLE LOCATION	NJ	NJ	NJ Default	065_A015					
SAMPLE ID	Non-Residential	Residential	Impact to	065_A015_0.0	065_A015_5.0	065_A015_10.3	065_A015_10.3-D	065_A015_15.0	065_A015_19.0
LABORATORY ID				460-29469-9	460-29469-10	460-29469-11	460-29469-12	460-29469-13	460-29469-14
TOP OF SAMPLE (ft bgs)	Direct Contact	Direct Contact	Groundwater	0	5	10.3	10.3	15	19
TOP OF SAMPLE ELEV. (ft msl)	Soil (NJAC	Soil (NJAC	Soil Screening	6.6	1.6	-3.7	-3.7	-8.4	-12.4
SAMPLE_DATE	7:26D 5/12)	7:26D 5/12)	(11/13)	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011	8/1/2011
ABOVE/BELOW GW TABLE				ABOVE	BELOW	BELOW	BELOW	BELOW	BELOW
MATRIX				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Metals (mg/kg)									
ANTIMONY	450	31	6	1.7 J	1 UJ	1.9 J	2 J	2.8 UJ	1 UJ
CHROMIUM	120,000	N/A	N/A	132	91.4	17.4 J	34.8 J	25.1 J	15.4
NICKEL	23,000	1,600	205**	33.4	13.8	11.8 J	16.4	18.3 J	13.9
THALLIUM	79	5	3	1 U	1.2 U	1.8 U	1.8 U	3.1 U^	1.1 U
VANADIUM	1,100	390	N/A	44.6	13.6	13.7 J	18.6	29.5 J	25.6
Miscellaneous Parameters (mg/kg)									
HEXAVALENT CHROMIUM	20	N/A	N/A	0.51 UJ	3.2 J	0.91 UJ	0.95 UJ	1.6 UJ	0.61 UJ
Miscellaneous Parameters (mv)									
OXIDATION REDUCTION POTENTIAL	N/A	N/A	N/A	363	439	391	371	457	355
Miscellaneous Parameters (s.u.)									
PH	N/A	N/A	N/A	8.67	8.03	7.63	7.6	7.67	7.76

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ft bgs = FEET BELOW GROUND SURFACE
mg/kg = MILLIGRAMS PER KILOGRAM
mv = millivolts
s.u. = standard units
N/A = Not Applicable

**** SITE SPECIFIC IGW SSL = DEFAULT IMPACT TO GROUNDWATER SOIL SCREENING LEVEL**
***** COMPLIANCE AVERAGED BELOW STANDARD**
^ SAMPLE IS BELOW WATER TABLE THEREFORE NJDEP IGWSSL DOES NOT APPLY

EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

NON-DETECTION EXCEEDS MINIMUM STANDARD/SCREENING CRITERIA

Table 2H
Historical Soil Samples
Site Investigation Borings (2011)
Complete Laboratory Analytical Summary Table PPG Site 63
1 Burma Road
Jersey City, NJ
2011- Sampled by TRC

Sample Location:	**NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)**	**NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)**	**NJ Default Impact to Groundwater Soil Screening (11/13)**	**SB 4**	**SB 6**	**SB 7**	**SB 8**	**SB 10**	
Sample Depth (ft bgs):				**7.5-8.0**	**7.5-8.0**	**10.5-11.0**	**8.5-9.0**	**9.0-9.5**	**10.0-10.5**
Sample Elevation (ft msl):				**0.5-1**	**-0.5-0**	**-3.5-(-3)**	**-0.9-(-0.4)**	**-1.8-(-1.3)**	**-2.8-(-2.3)**
Client Sample ID:				SB4/7.5-8.0	SB6/7.5-8.0	SB07/10.5-11.0	SB-8/8.5-9.0	SB10/9.0-9.5	SB10/10.0-10.5
Lab Sample ID:				JA81086-6A	JA80694-2A	JA80694-11A	JA80919-8A	JA80783-5	JA80783-6
Date Sampled:				07/15/11	07/12/11	07/12/11	07/14/11	07/13/11	07/13/11
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:									
Antimony (mg/kg)	450	31	6	<4.9	<7.1***	<5.4	<4.9	<2.5	<5.6
Chromium (mg/kg)	120,000	N/A	N/A	21.1	54.3	46.3	46.6	14.5	33.9
Nickel (mg/kg)	23,000	1,600	205**	16.6	25.4	21.1	25.1	13.1	13.9
Thallium (mg/kg)	79	5	3	<2.5	<3.6***	<2.7	<2.5	<1.3	<2.8
Vanadium (mg/kg)	1,100	390	N/A	28.6	35.9	32.2	37.2	21.1	22.2
Hexavalent Chromium (mg/kg)	20	N/A	N/A	<9.9	3.6	1.5	2.2	<0.49	1.3

NOTES:
< - The analyte was not detected at the stated reporting limit.
** = Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel;
SPLP = Synthetic Precipitation Leaching Procedure.
*** = Soil sample collected entirely below the water table; therefore, the IGWSSL does not apply.;
IGWSSL = Default Impact To Groundwater Soil Screening Level.
ft msl = feet mean sea level
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
Additional chrome data reported in Tables 2J and 4J.
Result exceeded criteria

Table 2H
Historical Soil Samples
Site Investigation Borings (2011)
Complete Laboratory Analytical Summary Table PPG Site 63
1 Burma Road
Jersey City, NJ
2011- Sampled by TRC

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	SB 12		TW 1	TW 2		
Sample Depth (ft bgs):				**12.0-12.5**	**13.0-13.5**	**10.0-10.5**	**9.5-10.0**	**17.0-17.5**	**22.0-22.5**
Sample Elevation (ft msl):				**-3.6-(-3.1)**	**-4.6-(-4.1)**	**-2.2-(-1.7)**	**-1.4-(-0.9)**	**-8.9-(-8.4)**	**-13.9-(-13.4)**
Client Sample ID:				SB12/12.0-12.5	SB12/13.0-13.5	TW1/10.0-10.5	TW2/9.5-10.0	TW2/17.0-17.5	TW2/22.0-22.5
Lab Sample ID:				JA81086-8A	JA81086-9A	JA80919-3A	JA80783-8A	JA80783-9A	JA80783-10A
Date Sampled:				07/15/11	07/15/11	07/14/11	07/13/11	07/13/11	07/13/11
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:									
Antimony (mg/kg)	450	31	6	<2.4	<5.0	<7.3***	<2.3	<2.3	<2.3
Chromium (mg/kg)	120,000	N/A	N/A	17.8	32.1	21.4	24.3	16.6	27.9
Nickel (mg/kg)	23,000	1,600	205**	16	25.9	<15	10	14.4	14.5
Thallium (mg/kg)	79	5	3	<1.2	<2.5	<3.6***	<1.1	<1.1	<1.1
Vanadium (mg/kg)	1,100	390	N/A	19.8	37.6	24.5	28.3	26.2	30.3
Hexavalent Chromium (mg/kg)	20	N/A	N/A	<0.50	<10	8.3	<0.46	<0.47	<0.47

NOTES:
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** = Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel;
SPLP = Synthetic Precipitation Leaching Procedure.
*** = Soil sample collected entirely below the water table; therefore, the IGWSSL does not apply.;
IGWSSL = Default Impact To Groundwater Soil Screening Level.
ft msl = feet mean sea level
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
Additional chrome data reported in Tables 2J and 4J.
Result exceeded criteria

Table 2H
Historical Soil Samples
Site Investigation Borings (2011)
Complete Laboratory Analytical Summary Table PPG Site 63
1 Burma Road
Jersey City, NJ
2011- Sampled by TRC

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Residential Direct Contact Soil (NJAC 7:26D 5/12)	NJ Default Impact to Groundwater Soil Screening (11/13)	TW 3		TW 4		MW 1	MW 2	MW 5/063_D003
Sample Depth (ft bgs):				**10.5-11.0**	**12.0-12.5**	**9.0-9.5**	**14.0-14.5**	**8**	**12**	**11**
Sample Elevation (ft msl):				**-1.5-(-1)**	**-3-(-2.5)**	**2.2-2.7**	**-2.8-(-2.3)**	**-0.9**	**-3.7**	**-1.9**
Client Sample ID:				TW3/10.5-11.0	TW3/12.0-12.5	TW4/9.0-9.5	TW4/14.0-14.5	MW-1/8	MW-2/12	MW-5/11
Lab Sample ID:				JA80783-2A	JA80783-3A	JA80919-10A	JA80919-11A	JA81094-2A	JA80569-2	JA80782-2A
Date Sampled:				07/13/11	07/13/11	07/14/11	07/14/11	07/15/11	07/11/11	07/13/11
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:										
Antimony (mg/kg)	450	31	6	<2.3	<2.3	<2.2	<2.5	<2.3	<2.5	<2.3
Chromium (mg/kg)	120,000	N/A	N/A	28.6	26.9	21.2	21.8	15.6	30.4	29.7
Nickel (mg/kg)	23,000	1,600	205**	18.8	12.4	12.4	25	14.5	16.2	15
Thallium (mg/kg)	79	5	3	<1.1	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2
Vanadium (mg/kg)	1,100	390	N/A	39.6	28.2	31.6	33.7	22.3	40.5	34.1
Hexavalent Chromium (mg/kg)	20	N/A	N/A	<0.47	<0.45	0.5	<0.48	<0.48	<0.50	1.1

NOTES:
< - The analyte was not detected at the stated reporting limit.
** = Site-specific impact to groundwater criteria developed using SPLP methodology for Nickel;
SPLP = Synthetic Precipitation Leaching Procedure.
*** = Soil sample collected entirely below the water table; therefore, the IGWSSL does not apply.;
IGWSSL = Default Impact To Groundwater Soil Screening Level.
ft msl = feet mean sea level
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
Additional chrome data reported in Tables 2J and 4J.
Result exceeded criteria

TABLE 2I
Historical Soil Samples
Interim Remedial Action Report (1998-2000)
Analytical Laboratory Results for Remaining Soil
TEST BORING SOIL SAMPLE RESULTS GROUP 12
PPG Site 63, 1 Burma Road
Jersey City, New Jersey
Sampled by ICF Kaiser/IT Corporation

SAMPLE ID	Ground Surface Elevation (ft msl)	SAMPLE DEPTH (ft bgs)	SAMPLE ELEVATION (ft msl)	LOCATION	DATE	Chromium, Hexavalent (mg/kg)	Chromium, Total (mg/kg)
630807007	12.9	8.80-10.50	2.4-4.1	PPG12-B07	9/21/1998	5.7 U	55 J
630811006	12.8	14.00-14.20	-1.4-(-1.2)	PPG12-B11	1/7/1999	1.1 J	552
630812004	9.5	6.00-7.10	2.4-3.5	PPG12-B12	1/11/1999	0.79 J	1780
630812104	9.5	6.00-7.10	2.4-3.5	PPG12-B12	1/11/1999	0.39 U	464
630812005	9.5	8.00-8.90	0.6-1.5	PPG12-B12	1/11/1999	0.42 U	299
630812006	9.5	10.00-10.40	-0.9-(-0.5)	PPG12-B12	1/11/1999	0.5 U	2030
630812007	9.5	14.00-14.90	-5.4-(-4.5)	PPG12-B12	1/11/1999	0.84 J	39
630813005	10.0	8.00-8.50	1.5-2	PPG12-B13	1/8/1999	0.44 UJ	16
630817006	13.2	12.00-12.00*	1.2*	PPG12-B17	1/7/1999	1.6 J	152

Notes:
mg/kg= milligram/kilogram
ft msl = feet mean sea level
ft bgs= feet below ground surface
J = estimated value
U = not detected
* Sample Depth typo in original report, exact sample interval unknown.

Table 2J
Site Investigation Borings (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63
1 Burma Road, Jersey City, NJ
Sampled by CB&I

Sample Location:	NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Default Impact to Groundwater Soil Screening (11/13)	ED012-A	SB11-A			SB13-A			B73-A	SB5-A		
Sample Depth (ft bgs):				7.8-8.3	8.9-9.4	9.4-9.9	9.9-10.4	9-9.5	9.5-10	10-10.5	2.5-3	10.4-10.9	10.9-11.4	11.4-11.9
Sample Elevation (ft msl):				0.7-1.2	-0.4 - 0.1	-0.9 - (-0.4)	-1.4 - (-0.9)	-0.5- 0	-1 - (-0.5)	-1.5 - (-1.0)	5-5.5	-2.9 - (-2.4)	-3.4 - (-2.9)	-3.9 - (-3.4)
Client Sample ID:				ED012-A_7.8-8.3	SB11-A_8.9-9.4	SB11-A_9.4-9.9	SB11-A_9.9-10.4	SB13-A_9-9.5	SB13-A_9.5-10	SB13-A_10-10.5	B73-A_2.5-3.0	SB5-A_10.4-10.9	SB5-A_10.9-11.4	SB5-A_11.4-11.9
Lab Sample ID:				JC16626-1RA	JC16626-4RA	JC16626-5A	JC16626-6A	JC16626-7RA	JC16626-8A	JC16626-9A	JC16626-10RA	JC16626-13RA	JC16626-14A	JC16626-15A
Date Sampled:				3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Excavation Status:														
Metals Analysis														
Chromium (mg/kg)	120,000	-	-	15.4 / 48.6	19.8 / 29.6	27.7	19.1	18.1 / 23.8	24.3	11.4	244 / 206	19.4 / 21.9	12.3	6
General Chemistry														
Chromium, Hexavalent (mg/kg)[C]	20	-	-	0.7	27.7 [E]	-	-	45.4 [E]	-	-	2	37.2 [E]	-	-
Chromium, Hexavalent (mg/kg)[C]	20			0.48	1.7	-	-	2.7	-	-	<0.48	1.6	-	-
Chromium, Hexavalent (mg/kg)[D]	20	-	-	0.86	<1.3	-	-	<1.5	-	-	<0.47	<1.3	-	-
pH (su)	-	-	-	9.08	6.94	-	-	7.46	-	-	7.76	7.6	-	-
Redox Potential Vs H2 (mv)	-	-	-	310	296	-	-	276	-	-	336	340	-	-
Solids, Percent (%)	-	-	-	90.8	32.1	-	-	26.5	-	-	84	30	-	-

Analytical Data Qualifiers:
< - The analyte was not detected at the stated reporting limit.
* - Duplicate analysis not within control limits; indeterminate bias direction.

N -The matrix spike sample recovery in the associated QC sample is not within QC limits.
R - The reported result is rejected.
J- The result is estimated and may be biased low.

Footnotes:
[C] 7196A sample methodology
[D] 7199 sample methodology (Sample was homogenized before being run)
[E] False positives (i.e., errant exceedances) for Cr6+ were reported for SB5, SB11, and SB13. The original Cr6+ results were suspect due to Cr6+ concentrations reported greater than total chrome. The laboratory re-homogenized the soil samples and collected new aliquots that were processed and analyzed both by EPA Method 7196A and EPA Method 7199 for confirmation of the Cr6+ concentrations. Total chrome was also re-analyzed to confirm the reported concentrations. Re-analysis of the samples confirmed Cr6+ is not present above the applicable criteria at these locations.

[1] NOTE: Soil Remediation Standards from June 2008 were incorporated in the May 2012 rule without change.
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
su = standard unit
mv = millivolts
Result exceeded criteria

Table 2K
Supplemental Soil Investigation Sample Summary Table (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road,
Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Default Impact to Groundwater Soil (11/13)	SWR001_2.5-3.0	SWR002_2.6-3.1	SWR003_2.5-3.0	SWR004_2.5-3.0	SWR005_2.5-3.0	SWR006_2.5-3.0	SWR007_2.5-3.0	DUP-1	SWR008_2.5-3.0	SWR009_1.0-1.5	SW010_1.0-1.5
Sample Depth (ft bgs):					2.5-3.0	2.6-3.1	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	1.0-1.5	1.0-1.5
Sample Elevation (ft msl):					8.5-9.0	7.4-7.9	6.4-6.9	6.1-6.6	6.2-6.7	6.3-6.8	6.4-6.9	6.4-6.9	8.5-9.0	9.2-9.7	8.4-8.9
Excavated															
Lab Sample ID:					JC31406-1/1A/1R	JC31406-4/4A/4R	JC31406-5/5A/5R	JC31406-7/7A/7R	JC31406-6/6A/6R	JC31406-8/8A/8R	JC31406-9/9A/9R	JC31406-11/11A/11R	JC31527-8/8A/8T	JC31607-8/8A/8R	JC31527-10/1A/10T
Date Sampled:					11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/9/2016	11/10/2016	11/11/2016	11/10/2016
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis															
Antimony	mg/kg	450	31	6	<2.3 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.3 NJ-	<2.7 NJ-	<2.7 NJ-	<2.0 NJ-	30.3 NJ-[f]	4.8 NJ-
Chromium	mg/kg	120,000	-	-	47.6	22.9	56.1	96.2	59.2	19	13.8	13.2	33.4	124	130
Nickel	mg/kg	23,000	1,600	205**	13	51.9	22.2	14.2	23.6	12.9	13.4	13.1	16.5	83.6	104
Thallium	mg/kg	79	5	3	<1.2	<1.1	<1.2	<1.1	<1.1	<1.1	<1.3	<1.4	<0.98	<1.1	<2.1
Vanadium	mg/kg	1,100	390	0	27.9	24.2	34	32.3	39.5	26.7	17.7	17.6	28.2	44.9	46.5
General Chemistry															
Chromium, Hexavalent	mg/kg	20	-	-	1.0 *NJ / 2.0 *NJ-	2.2 *NJ / <0.44 *NJ-	0.6 *NJ / <0.47 *NJ-	14.6 *NJ / 4.8 *NJ-	0.51 *NJ / 1.2 *NJ-	1.1 *NJ / 0.46 *NJ-	<0.55 *NJ / <0.55 *NJ-	<0.56 *NJ / 0.63 *NJ-	5.1 NJ- / 3.9	8.1 *NJ- / 2.6 NJ-	0.51 NJ- / 0.53
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	8.2	8.29	7.72	8.51	7.96	8.26	7.95	7.59	7.98	7.67	8.05
Redox Potential Vs H2	mv	-	-	-	508	524	517	538	515	550	561	568	526	539	528
Solids, Percent	%	-	-	-	86	89.9	85.4	87	88.2	87.3	73.3	71.8	97	91.6	94.4
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Analytical Data Qualifiers:

< The analyte was analyzed for, but was not detected above the stated reporting limit.

* Duplicate analysis not within control limits; indeterminate bias direction.

J The reported result is an estimated value.

NJ The matrix spike sample recoveries in the associated QC sample are outside QC limits; the result is an estimated value with no definitive bias.

NJ- The matrix spike sample recoveries in the associated QC sample are below QC limits; the result is an estimated value with a potential low bias.

Footnotes:

[b] Elevated detection limit due to dilution required for high interfering element.

[c] The ferrous iron test was analyzed after completion of Cr^{+6} testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr^{+6} recoveries.

[d] The sulfide screen test was analyzed after completion of Cr^{+6} testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr^{+6} recoveries.

[e] Analysis done out of holding time.

[f] Exceedance of Default Impact to Groundwater Soil Screening Level addressed by compliance averaging.

[g] Detection limit in excess of Default Impact to Groundwater Soil Screening Level; however the sample was collected within the saturated zone.

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ft msl = feet mean sea level

ft bgs = feet below ground surface

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mv = millivolts

Result exceeded the most stringent criteria

Table 2K
Supplemental Soil Investigation Sample Summary Table (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road,
Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Default Impact to Groundwater Soil (11/13)	SWR011_1.0-1.5	DUP-2	SWR013_1.0-1.5	SWR017_2.5-3.0	PPG63/65_SW25R2_4.3-4.8	PPG63/65_SW93_0.3-0.8	PPG63/65_SW119_1.6-2.1	BR001_4.2-4.7 (AD006)	BR002_3.5-4.0
Sample Depth (ft bgs):					1.0-1.5	1.0-1.5	1.0-1.5	2.5-3.0	4.3-4.8	0.3-0.8	1.6-2.1	4.2-4.7	3.5-4.0
Sample Elevation (ft msl):					7.2-7.7	7.2-7.7	8.8-9.3	5.3-5.8	4.5-5.0	10.5-11.0	8.5-9.0	3.0-3.5	5.0-5.5
Excavated													
Lab Sample ID:					JC31527-11/11A/11T	JC31527-12/12A/12T	JC31607-9/9A/9R	JC31607-4/4A/4R	JC32217-1/1A/1R	JC31527-9/9A/9T	JC31406-3/3A/3R	JC31607-2/2A/2R	JC31607-1/1A/1R
Date Sampled:					11/10/2016	11/10/2016	11/11/2016	11/11/2016	11/22/2016	11/10/2016	11/9/2016	11/11/2016	11/11/2016
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis													
Antimony	mg/kg	450	31	6	3.9 NJ-	3.8 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.0 NJ-	<2.2 NJ-	5.9 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	174	122	305	40.1	185	36.7	30.3	25.8	467
Nickel	mg/kg	23,000	1,600	205**	104	65.3	57	24.3	47.5	21.4	28.6	16.5	7.9
Thallium	mg/kg	79	5	3	<2.2	<2.1	<1.1	<1.1	<2.3	<1.0	<2.2 [b]	<1.1	<1.1
Vanadium	mg/kg	1,100	390	0	51.5	51.3	54.8	18.8	48.2	28.4	50.4	26.5	15.7
General Chemistry													
Chromium, Hexavalent	mg/kg	20	-	-	<0.45 NJ- / 2.3	<0.45 NJ- / 3.7	1 *NJ- / <0.46 NJ-	<0.47 *NJ- / <0.47 NJ-	2.4 NJ - / 8.3 NJ-	1.3 NJ- / <0.42	1 *NJ / 0.72 *NJ-	<0.47 *NJ- / <0.47 NJ-	16.1 *NJ- / 15.2 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	-	-	-	-	-	-
pH	su	-	-	-	7.94	8.09	7.87	7.58	8.11	7.95	7.65	8.17	7.5
Redox Potential Vs H2	mv	-	-	-	540	540	541	531	520	530	514	536	534
Solids, Percent	%	-	-	-	88.4	89.7	87.1	85.6	83.9	95.9	86.1	84.4	84.8
Sulfide Screen		-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	135,000 J	-	-	-	-

Analytical Data Qualifiers:

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Footnotes:

[b] Elevated detection limit due to dilution required for high interfering element.

[c] The ferrous iron test was analyzed after completion of Cr^{+6} testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr^{+6} recoveries.

[d] The sulfide screen test was analyzed after completion of Cr^{+6} testing (outside of normal hold times for this parameter) in order to provide more information about the possible impact of the sample matrix on Cr^{+6} recoveries.

[e] Analysis done out of holding time.

[f] Exceedance of Default Impact to Groundwater Soil Screening Level addressed by compliance averaging.

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ft msl = feet mean sea level

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Result exceeded the most stringent criteria

Table 2K
Supplemental Soil Investigation Sample Summary Table (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road,
Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Default Impact to Groundwater Soil (11/13)	BR003_8.1-8.6 (CD005)	BR004_7.3-7.8 (CD007)	BR005_4.7-5.2 (FD002)	BR006_4.4-4.9	BR007_4.1-4.6	BR008_6.7-7.2 (BD010)	BR009_3.3-3.8	BR010_1.9-2.4	TP001_B01	TP001_SW01	TP001_SW02
Sample Depth (ft bgs):					8.1-8.6	7.3-7.8	4.7-5.2	4.4-4.9	4.1-4.6	6.7-7.2	3.3-3.8	1.9-2.4	1.5-2.0	1.0-1.5	1.0-1.5
Sample Elevation (ft msl):					-0.5 - 0	0.5-1.0	4.1-4.6	4.0-4.5	4.0-4.5	2.8-3.3	6.0-6.5	8.0-8.5	10.4-10.9	11.4-11.9	10.9-11.4
Excavated															
Lab Sample ID:					JC31527-1/1A/1T	JC31406-10/10A/10R	JC31607-6/6A/6R	JC31607-5/5A/5R	JC31607-3/3A/3R	JC31607-7/7A/7R	JC31527-7/7A/7T	JC31406-2/2A/2R/2T	JC31527-2/2A/2R	JC31527-3/3A/3R	JC31527-4/4A/4R
Date Sampled:					11/10/2016	11/9/2016	11/11/2016	11/11/2016	11/11/2016	11/11/2016	11/10/2016	11/9/2016	11/10/2016	11/10/2016	11/10/2016
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Analysis															
Antimony	mg/kg	450	31	6	<6.8 NJ-[g]	<2.3 NJ-	<2.3 NJ-	<2.4 NJ-	<2.5 NJ-	<2.1 NJ-	<2.9 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	<2.3 NJ-
Chromium	mg/kg	120,000	-	-	2610	26.4	19.1	19.8	17	354	262	71.2	40.9	30.5	44.6
Nickel	mg/kg	23,000	1,600	205**	16.3	14.9	14.3	14.4	16.1	32	34	15.2	16.9	18.3	17.5
Thallium	mg/kg	79	5	3	<1.1	<1.2	<1.2	<1.2	<1.2	<2.1	<1.4	<1.1	<1.1	<1.1	<1.2
Vanadium	mg/kg	1,100	390	0	48.7	27	27.1	21.3	25.8	46.6	65.9	19.7	37.3	33.6	38.9
General Chemistry															
Chromium, Hexavalent	mg/kg	20	-	-	2.7 NJ- / 4	0.47 *NJ / 0.64 *NJ-	<0.48 *NJ-/ <0.48 NJ-	1.7 *NJ- / <0.48 NJ-	<0.50 *NJ- / <0.50 NJ-	10.4 *NJ- / 17.6 NJ-	1 NJ- / 4.5	4.1 *NJ / 4.5 *NJ-	5.2 NJ- / 2 NJ-	1.7 NJ- / 2.5 NJ-	3.5 NJ- / 2.3 NJ-
Iron, Ferrous	%	-	-	-	-	-	-	1.3 [c]	-	-	-	0.96 [c]	-	-	-
pH	su	-	-	-	9.58	8	8.14	8.18	7.88	8.17	7.62	8.45	8.39	8.78	8.6
Redox Potential Vs H2	mv	-	-	-	537	520	543	546	540	545	267	541	262	265	264
Solids, Percent	%	-	-	-	85.9	84.8	84.2	83.5	80.3	90.4	68.6	87.4	84.7	86.2	84.1
Sulfide Screen		-	-	-	-	-	-	NEGATIVE [d]	-	-	-	NEGATIVE [d]	-	-	-
Total Organic Carbon	mg/kg	-	-	-	-	-	-	11,800[e] J	-	-	-	11,200 [e] J	-	-	-

Analytical Data Qualifiers:

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Result exceeded the most stringent criteria

Table 2K
Supplemental Soil Investigation Sample Summary Table (2016)
Final Post-Remedial Summary Laboratory Analytical Data for Remaining Soil
PPG Site 63, 1 Burma Road,
Jersey City, NJ
Sampled by CB&I

Client Sample ID:		NJ Non-Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Residential Direct Contact Soil (NJAC 7: 26D 5/12)[1]	NJ Default Impact to Groundwater Soil (11/13)	TP001_SW03	TP001_SW04
Sample Depth (ft bgs):					0.5-1.0	1.0-1.5
Sample Elevation (ft msl):					10.4-10.9	10.9-11.4
Excavated						
Lab Sample ID:					JC31527-5/5A/5R	JC31527-6/6A/6R/6RT
Date Sampled:					11/10/2016	11/10/2016
Matrix:					Soil	Soil
Metals Analysis						
Antimony	mg/kg	450	31	6	<2.2 NJ-	<2.2 NJ-
Chromium	mg/kg	120,000	-	-	51.9	40.3
Nickel	mg/kg	23,000	1,600	205**	21.2	17.5
Thallium	mg/kg	79	5	3	<1.1	<1.1
Vanadium	mg/kg	1,100	390	0	42.9	38.3
General Chemistry						
Chromium, Hexavalent	mg/kg	20	-	-	6.5 NJ- / 4.3 NJ-	4.6 NJ- / 4.7 NJ-
Iron, Ferrous	%	-	-	-	-	0.59 [c]
pH	su	-	-	-	8.9	8.85
Redox Potential Vs H2	mv	-	-	-	269	276
Solids, Percent	%	-	-	-	86.3	86.8
Sulfide Screen		-	-	-	-	NEGATIVE [d]
Total Organic Carbon	mg/kg	-	-	-	-	11,300[e] J

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Result exceeded the most stringent criteria