

**Table 2
Excavation Base Soil Samples
Complete Summary
Laboratory Analytical Data
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

				Client Sample ID:	PPG 63/65_B54	PPG 63/65_B65	PPG63/65_B70	PPG63/65_B82	PPG63/65_DUP-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				
				Sample Elevation (ft msl):	1.8-2.3	0.8-1.3	1.5-2	4.7-5.2	4.7-5.2	2.8-3.3	2.3-2.8	2.2-2.7	0.8-1.3	3.2-3.7	-0.5-0	-0.7- (-0.2)	1.8-2.3				
				Sample Depths (ft bgs):	6.0-6.5	6.2-6.7	5.5-6.0	2.4-2.9	2.4-2.9	4.3-4.8	4.1-4.6	4.7-5.2	6.1-6.6	4.0-4.5	6.9-7.4	7.3-7.8	4.8-5.3				
				Excavated:				EXCAVATED	EXCAVATED			EXCAVATED									
				Lab Sample ID:	JB81181-2	JB83884-1	JB84487-3	JB86481-5	JB86481-7	JB86807-1	JB87201-2	JB87201-4	JB87981-2	JB87265-2	JB87890-3	JB87981-7	JB88086-4				
				Date Sampled:	11/6/2014	12/11/2014	12/17/2014	1/15/2015	1/15/2015	1/19/2015	1/28/2015	1/28/2015	2/10/2015	1/29/2015	2/9/2015	2/10/2015	2/11/2015				
				Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Analyte	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 9/17)	NJ Residential Direct Contact Soil (NJAC 7:26D 9/17)	NJ Default Impact to Groundwater Soil Screening (11/13)	Units	R		Q		R		Q		R		Q		R		Q		
					R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	
Chromium, Hexavalent	20	-	-	mg/kg	0.98 NJ- /	<0.84 NJ- /			<0.47 NR /	1.7 NJ- /	0.68 NJ- /	11.6 *NJ- /	<0.53 *NJ- /							72 NJ- /	
Chromium	120,000	-	-	mg/kg	0.61 NJ- /	2 NJ- /	<0.53 *NJ	2.1 NJ- /	0.61 NJ- /	1.7 NJ- /	0.81 NJ- /	20.6 NJ- /	1.7 NJ- /	1.7	163 NJ /	<0.53 *NJ- /	<0.54	<0.54	19.4	283 *NJ- /	
Antimony	450	31	6	mg/kg	3 NJ-	<4.3 NJ-	2.7 NJ-	28.1 NJ-	36.8 NJ-	<2.2 NJ-	<2.7 NJ-	<2.7 NJ-	<2.7 NJ-	<2.6 NJ-	6.8 NJ-	<2.6 NJ-	3.1 NJ-	4.4 NJ-	4.4 NJ-	4.310	
Nickel	23,000	1,600	205*	mg/kg	19.9	24.2	13	25.6	26.7	18.6	22.3	91.8	8.2	19.3	14.3	18.3	18.3	19.2	19.2	19.2	
Thallium	-	-	3	mg/kg	<1.1	<2.1	<1.4	<1.1	<1.2	<1.1	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2	<1.2	
Vanadium	1,100	390**	NA	mg/kg	16.6	43.9	30.1	14.7	16.7	39.2	31.4	118	12	46.4	17.2	21.7	40.3	40.3	40.3	40.3	
Iron, Ferrous	-	-	-	%	-	1.2	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-	
Redox Potential Vs H2	-	-	-	mv	254	216	8.9	259	261	329	317	287	391	321	224	118	74.1	74.1	74.1	74.1	
Solids, Percent	-	-	-	%	90.2	47.7	75	84.9	84.5	88.3	77	76.1	80.4	82.2	74.9	74.5	80.4	80.4	80.4	80.4	80.4
Sulfide Screen	-	-	-		-	NEGATIVE	-	-	-	NEGATIVE	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	-	-	-	mg/kg	-	1,120	-	-	-	662	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	su	8.15	7.48	10.12	8.36	8.2	7.92	7.46	7.57	7.94	8.19	7.82	8	11.29	11.29	11.29	11.29	

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.
- = no criteria or not analyzed
- 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 .

Footnotes:

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

**The use of the USEPA Regional Soil Screening Level of 390 mg/kg for vanadium is proposed as an alternative remediation standard for the site. Based on: <https://www.epa.gov/risk/regional-screening-levels-rsls-users-guide-november-2015>

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

For additional information regarding data qualifiers please review the provided Data Validation Reports.

The groundwater elevation used for the evaluation of the Impact to Ground Water (IGW) exposure pathway is 5.2 feet NAVD.

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Client Sample ID:	PPG63/65_DUP- B99W	PPG63/65_B100W	PPG63/65_B101W	PPG63/65_B102W	PPG63/65_B103W
Sample Elevation (ft msl):	1.8-2.3	1-1.5	2.3-2.8	2.3-2.8	0.8-1.3
Sample Depths (ft bgs):	4.8-5.3	6.0-6.5	5.2-5.7	5.2-5.7	6.1-6.6
Excavated:					
Lab Sample ID:	JB88086-6	JB88086-5	JB88134-3	JB88308-1	JB88725-1
Date Sampled:	2/11/2015	2/11/2015	2/12/2015	2/13/2015	2/22/2015
Matrix:	Soil	Soil	Soil	Soil	Soil

Analyte	NJ Non-Residential Direct Contact Soil (NJAC 7:26D 9/17)	NJ Residential Direct Contact Soil (NJAC 7:26D 9/17)	NJ Default Impact to Groundwater Soil Screening (11/13)	Units	R		Q		R		Q	
					R	Q	R	Q	R	Q	R	Q
Chromium, Hexavalent	20	-	-	mg/kg	111 NJ- /	2.3 NJ- /	132 *NJ- /	28.8 NJ+ /	0.54 NJ- /			
Chromium	120,000	-	-	mg/kg	152 *NJ-	1.4 *NJ-	106 NJ+	11.1 *NJ+	0.62 NJ-			
Antimony	450	31	6	mg/kg	<2.5 NJ-	3.6 NJ-	14.8	4.9 NJ-	<2.4NJ-			
Nickel	23,000	1,600	205*	mg/kg	19	41.7	20.8	19.2	22.2			
Thallium	-	-	3	mg/kg	<1.2	<1.3	<2.3	<1.3	<1.2			
Vanadium	1,100	390**	NA	mg/kg	38	70.1	24.4	21	18.1			
Iron, Ferrous	-	-	-	%	-	-	-	0.9	-			
Redox Potential Vs H2	-	-	-	mv	85.3	136	83.5	143	339			
Solids, Percent	-	-	-	%	80.9	73.2	86.3	79	84.3			
Sulfide Screen	-	-	-	-	-	-	-	NEGATIVE	-			
Total Organic Carbon	-	-	-	mg/kg	-	-	-	85,400	-			
pH	-	-	-	su	11.17	7.95	11.21	10.98	8.04			

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Result exceeded criteria

For additional information regarding data qualifiers please review the provided Data Validation Reports.

The groundwater elevation used for the evaluation of the Impact to Ground Water (IGW) exposure pathway is 5.2 feet NAVD.