

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRN01						BRN02					
						R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	<2.0 NJ-	<2.0 NJ-	4 NJ-	5.7 NJ-	<2.2 NJ-	<2.2 NJ-	4.6 NJ-	<2.1 NJ-	<2.2 NJ-	<2.4 NJ-	<2.2 NJ-	
Chromium	7440-47-3	120,000	-	-	mg/kg	8.1	37.2	13.8	32.8	18.9	22	30.7	50.3	21.9	7	7.4	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	12.5	10.1	20.2	22.1	14.3	17.3	20.2	20	9.8	6.6	12.4	
Thallium	7440-28-0	-	-	3	mg/kg	<1.0	<0.99	<1.0	<1.0	<1.1	<1.1	<1.0	<1.0	<1.1	<1.2	<1.1	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	55.4	11.2	16.7	38	29.1	36.3	52.1 NJ-	44.4	16.2	9.6	11.5	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	0.69	1.2	<0.53	1.3	<0.46	<0.45	1.1 NJ- / 0.91 NJ-	0.64 NJ- / 0.52 NJ-	0.8	<0.49	<0.44	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-	-	
Redox Potential Vs H2	-	-	-	-	mV	310	214	334	271	220	284	277	268	296	272	252	
Solids, Percent	-	-	-	-	%	97.1	97.8	75	43.5	86.3	88.3	95.2	91.2	86.5	81.9	90.4	
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	su	9.24	8.6	7.4	6.97	7.19	7.43	9.16	9.01	8.62	8.34	8.85	

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
- ft bgs = feet below ground surface
- ft msl = feet mean sea level
- mg/kg = milligram per kilogram
- su = standard unit
- mV = millivolts
- NA= Not Applicable
- = No Standard or Not Analyzed
- *Nickel site specific impact to groundwater screening 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>

Result exceeded criteria

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- <: The analyte was analyzed for, but was not detected above the stated reporting limit.
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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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Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN02A					BRN_3										
Client Sample ID:		BRN02A_1.5-2	BRN02A_4-4.5	BRN02A_5.5-6	BRN02A_7-7.5	BRN02A_9.5-10	BRN_3 2.5-3.0	BRN_3 5-5.5	BRN_3 7.5-8.0	BRN_3 9.5-10.0							
Sample Depth (ft bgs):		1.5-2	4-4.5	5.5-6	7-7.5	9.5-10	2.5-3.0	5-5.5	7.5-8.0	9.5-10.0							
Sample Elevation (ft msl):		6-6.5	3.5-4	2-2.5	0.5-1	-1.5 - (-2)	5-5.5	2.5-3	0-0.5	-1.5 - (-2)							
Lab Sample ID:		JC7286-65A	JC7286-66A	JC7286-67A	JC7286-68A	JC7286-75A	JB97557-33	JB97557-34	JB97557-35	JB97557-36							
Date Sampled:		10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	6/19/2015	6/19/2015	6/19/2015	6/19/2015							
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q	R	Q		
Antimony	7440-36-0	450	31	6	mg/kg	<2.0 NJ-	<2.2 NJ-	4.3 NJ-	2.9 NJ-	<2.2 NJ-	<2.5 NJ-	<2.3 NJ-	<2.6 NJ-	<2.3 NJ-			
Chromium	7440-47-3	120,000	-	-	mg/kg	10	16.3	21.5	24.7	24.3	82.7	77.4	18.5	15			
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	10.8	31.4	21.8	21.2	13.1	26.6	12.7	6	15.2			
Thallium	7440-28-0	-	-	3	mg/kg	<1.0	<1.1	<1.2	<1.3	<1.1	<1.3	<1.1	<1.3	<1.2			
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	13.9	39.2	27.4	22.8	37.4	61	40.3	12.4	17			
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.41	0.47	0.84	0.75	<0.45	<0.53 NJ-	1.1 NJ-	<0.54 NJ-	<0.48 NJ-			
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-			
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-			
Redox Potential Vs H2	-	-	-	-	mV	286	314	304	270	212	478	449	439	467			
Solids, Percent	-	-	-	-	%	96.7	87.3	80.5	75.5	89.2	75.3	85	74.2	83.3			
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-			
pH	-	-	-	-	su	8.25	6.99	8.08	7.54	8.86	7.34	9.24	9.22	9.48			

Footnotes:

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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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Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN04						BRN04A									
		BRN04_0.5-1	BRN04_1.6-2.1	BRN04_2.2-2.7	BRN04 DUP03	BRN04_4.6-5.4	BRN04_8.5-9	BRN04A_0.5-1	BRN04A_1.6-2.1	BRN04A_2.2-2.7	BRN04A_4.6-5.4	BRN04A_8.5-9					
		0.5-1	1.6-2.1	2.2-2.7	2.2-2.7	4.9-5.4	8.5-9	0.5-1	1.6-2.1	2.2-2.7	4.9-5.4	8.5-9					
		7-7.5	5.9-6.4	5.3-5.8	5.3-5.8	2.6-3.1	-0.5 - (-1)	7-7.5	5.9-6.4	5.3-5.8	2.6-3.1	-0.5 - (-1)					
		JC7035-22	JC7035-23	JC7035-24	JC7035-32	JC7035-25	JC7035-26	JC7035-27	JC7035-28	JC7035-29	JC7035-30	JC7035-31					
		10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015					
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil					
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q	R	Q		
Antimony	7440-36-0	450	31	6	mg/kg	<2.1 NJ-	<2.5 NJ-	<2.6 NJ-	<2.8 NJ-	<2.2 NJ-	29.8 NJ-	<2.1 NJ-	<2.4 NJ-	<2.6 NJ-	<2.2 NJ-	<6.9 ^a NJ-	
Chromium	7440-47-3	120,000	-	-	mg/kg	33.3 EJ	73.1 EJ	134 EJ	86 EJ	18 EJ	23 EJ	49.7 EJ	63 EJ	66.3 EJ	33.3 EJ	2,360 EJ	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	22.6	23.6	24	24.1	27.5	20.6	15	21.9	25.2	17.3	<4.6	
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.3	<1.3	<1.4	<1.1	<1.2	<2.1 ^a	<1.2	<1.3	<1.1	<1.2	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	48.5 EJ	62.8 EJ	65 EJ	65.2 EJ	19.5 EJ	21 EJ	81.9 EJ	48.7 EJ	63.2 EJ	41.2 EJ	<17 ^a EJ	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	2.4 NJ- / 0.65 NJ-	<0.51 NJ- / <0.51 NJ-	<0.53 NJ- / <0.53 NJ-	2.6 NJ- / <0.53 NJ-	<0.45 NJ- / <0.45 NJ-	<0.50 NJ- / <0.50 NJ-	16.2 NJ- / 0.44 NJ-	2.3 NJ- / <0.48 NJ-	2.4 NJ- / <0.52 NJ-	2.7 NJ- / 0.68 NJ-	30.8 NJ- / 15.9 NJ-	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	
Iron, Ferrous	-	-	-	-	%	1.7 ^b	-	-	-	-	-	-	-	-	-	-	
Redox Potential Vs H2	-	-	-	-	mV	260	313	317	294	312	198	238	297	338	275	190	
Solids, Percent	-	-	-	-	%	95.5	78.3	74.8	74.9	88.9	80.2	95.3	82.5	77.4	89.7	84.8	
Sulfide Screen	-	-	-	-	-	NEGATIVE ^c	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	-	-	-	-	mg/kg	18,300 ^d J	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	su	8.23	7.33	7.06	7.33	8.26	8.48	8.59	7.18	7.43	8.61	10.45	

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Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location:			BRN4A-A			BRN_5					
		Client Sample ID:			BRN4A-A 8.5-9	BRN4A-A 9-9.5	BRN4A-A 9.5-10	BRN_5 2-2.5	BRN_5 6-6.5	BRN_5 7.5-8.0	BRN_5 9.5-10.0		
		Sample Depth (ft bgs):			8.5-9	9-9.5	9.5-10	2-2.5	6-6.5	7.5-8.0	9.5-10.0		
		Sample Elevation (ft msl):			-0.5 - (-1)	-1 - (-1.5)	-1.5 - (-2)	5.5-6	1.5-2	0-0.5	-1.5 - (-2)		
		Lab Sample ID:			JC16626-26RA	JC16626-27A	JC16626-28A	JB97557-29	JB97557-30	JB97557-31	JB97557-32		
		Date Sampled:			3/18/2016	3/18/2016	3/18/2016	6/19/2015	6/19/2015	6/19/2015	6/19/2015		
		Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	-	-	-	-	<2.6 NJ-	<2.6 NJ-	<2.5 NJ-	<2.4 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	7,870 / 4,360 EJ	2,230	25,000	107	10.5	21.6	15.6	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	-	-	-	31.3	6	21.5	12.7	
Thallium	7440-28-0	-	-	3	mg/kg	-	-	-	<1.3	<1.3	<1.2	<1.2	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	-	-	-	71.2	9.5	25.8	21.5	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	5.4 NJ- / 66 NJ-	61	<0.50	<0.55 NJ-	<0.50 NJ-	<0.49 NJ-	<0.50 NJ-	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	59.7	-	-	-	-	-	-	
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	
Redox Potential Vs H2	-	-	-	-	mV	205	269	254	422	318	449	407	
Solids, Percent	-	-	-	-	%	82.7	84.1	80.1	72.5	79.9	81.9	79.8	
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	
pH	-	-	-	-	su	9.94	9.05	9.68	7.53	7.66	8.25	7.8	

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		BRN06						BRN06A									
Sample Location:																	
Client Sample ID:		BRN06_1-1.5	BRN06_3-3.5	BRN06_5-5.5	BRN06_7-7.5	BRN06_9-9.5	BRN06 DUP04	BRN06A_0.5-1	BRN06A_2.5-3	BRN06A_4.5-5	BRN06A_6.5-7	BRN06A_8.5-9					
Sample Depth (ft bgs):		1-1.5	3-3.5	5-5.5	7-7.5	9-9.5	9-9.5	0.5-1	2.5-3	4.5-5	6.5-7	8.5-9					
Sample Elevation (ft msl):		6.5-7	4.5-5	2.5-3	0.5-1	-1 - (-1.5)	-1 - (-1.5)	7-7.5	5-5.5	3-3.5	1-1.5	-0.5 - (-1)					
Lab Sample ID:		JC7286-49A	JC7286-50A	JC7286-51A	JC7286-52A	JC7286-53A	JC7286-64A	JC7286-54A	JC7286-55A	JC7286-56A	JC7286-57A	JC7286-58A					
Date Sampled:		10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015					
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil					
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q	R	Q		
Antimony	7440-36-0	450	31	6	mg/kg	<2.1 NJ-	<2.1 NJ-	<2.4 NJ-	<2.3 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	4.6 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	
Chromium	7440-47-3	120,000	-	-	mg/kg	61.6	82.2	45.5	5.8	27.8	21.7	67.5	110	13.7	12.8	26.1	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	16.6	23.7	13.8	<4.7	23.9 J	14.3 J	19.9	31.1	12.3	14.9	24	
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.0	<1.2	<1.2	<1.1	<1.1	<1.1	<1.3	<1.1	<1.2	<2.2 ^a	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	60.9 NJ-	57.7 NJ-	33.8 NJ-	6.6 NJ-	35 NJ-	20.6 J	51.4 NJ-	40.7 NJ-	24.2 NJ-	15 NJ-	37.1 NJ-	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	1.6 NJ- / 2.6 NJ-	0.63 NJ- / <0.55 NJ-	<0.50 NJ- / <0.50NJ-	<0.48 NJ- / <0.48 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47	1.3 NJ- / 0.63 NJ-	1.7 NJ- / 0.94 NJ-	0.47 NJ- / <0.46 NJ-	<0.47 NJ- / <0.47 NJ-	0.86 NJ- / <0.45 NJ-	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	
Iron, Ferrous	-	-	-	-	%	-	0.79 ^b	-	-	-	-	-	-	-	-	-	
Redox Potential Vs H2	-	-	-	-	mV	296	289	285	285	267	249	304	312	299	256	253	
Solids, Percent	-	-	-	-	%	93.3	72.9	80	83.3	85.9	84.9	90	73.1	87.3	85.1	89.4	
Sulfide Screen	-	-	-	-	-	-	NEGATIVE ^c	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	-	-	-	-	mg/kg	-	190,000 ^d J	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	su	8.51	8.92	8.32	8.62	8.79	8.82	8.12	7.07	8.42	8.95	8.83	

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
- ft bgs = feet below ground surface
- ft msl = feet mean sea level
- mg/kg = milligram per kilogram
- su = standard unit
- mV = millivolts
- NA= Not Applicable
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- *Nickel site specific impact to groundwater screening 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>

Result exceeded criteria

Analytical Data Qualifiers:

- <: The analyte was analyzed for, but was not detected above the stated reporting limit.
 - J: The reported result is an estimated value.
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 - R : The reported result is rejected .
- 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.

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN_7				BRN08											
		BRN_7 2-2.5	BRN_7 5-5.5	BRN_7 7.5-8.0	BRN_7 9.5-10.0	BRN08_2-2.5	BRN08_3-3.5	BRN08_6-6.5	BRN08_7.5-8	BRN08_9.5-10							
Client Sample ID:		BRN_7 2-2.5	BRN_7 5-5.5	BRN_7 7.5-8.0	BRN_7 9.5-10.0	BRN08_2-2.5	BRN08_3-3.5	BRN08_6-6.5	BRN08_7.5-8	BRN08_9.5-10							
Sample Depth (ft bgs):		2-2.5	5-5.5	7.5-8.0	9.5-10.0	2-2.5	3-3.5	6-6.5	7.5-8	9.5-10							
Sample Elevation (ft msl):		5.5-6	2.5-3	0-0.5	-1.5- (-2)	5.5-6	4.5-5	1.5-2	0 - 0.5	- 1.5 - (-2)							
Lab Sample ID:		JB97557-25	JB97557-26	JB97557-27	JB97557-28	JC7286-76A	JC7286-77A	JC7286-78A	JC7286-79A	JC7286-80A							
Date Sampled:		6/19/2015	6/19/2015	6/19/2015	6/19/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015							
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						Q	R	Q	R	Q	R	Q	R	Q	R		
Antimony	7440-36-0	450	31	6	mg/kg	<2.6 NJ-	<2.5 NJ-	<2.4 NJ-	<2.6 NJ-	<2.1 NJ-	2.6 NJ-	<2.0 NJ-	<2.3 NJ-	<2.3 NJ-			
Chromium	7440-47-3	120,000	-	-	mg/kg	466	36.5	16.8	173	98.4	266	34.2	17.5	42.1 EJ			
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	24.1	19.4	19.3	17	17.3	36.9	16.5	13.6	15.9			
Thallium	7440-28-0	-	-	3	mg/kg	<1.3	<1.3	<1.2	<1.3	<1.0	<1.2	<1.0	<1.1	<1.1			
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	55.1	29.7	13.6	45.4	30.2	61	24.5	23.6	48.5 EJ			
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	8.7 NJ-	<0.49 NJ-	<0.48 NJ-	<0.52 NJ-	3	6.7	0.65	<0.46	<0.46			
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-			
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-			
Redox Potential Vs H2	-	-	-	-	mV	474	408	400	394	298	286	297	265	279			
Solids, Percent	-	-	-	-	%	75.9	81.5	83.5	77.3	91.6	78.3	70.1	86.5	86.1			
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-			
pH	-	-	-	-	su	8.07	8.51	9.32	9.45	8.26	8.41	8.36	8.25	8.31			

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
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- mg/kg = milligram per kilogram
- su = standard unit
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- *Nickel site specific impact to groundwater screening 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>

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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.

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN08A					BRN09										
		BRN08A_1-1.5	BRN08A_3-3.5	BRN08A_5-5.5	BRN08A_7-7.5	BRN08A_9-9.5	BRN09_0.5-1	BRN09_2.5-3	BRN09_7.5-8	BRN09_9.5-10							
Client Sample ID:		BRN08A_1-1.5	BRN08A_3-3.5	BRN08A_5-5.5	BRN08A_7-7.5	BRN08A_9-9.5	BRN09_0.5-1	BRN09_2.5-3	BRN09_7.5-8	BRN09_9.5-10							
Sample Depth (ft bgs):		1-1.5	3-3.5	5-5.5	7-7.5	9-9.5	0.5-1	2.5-3	7.5-8	9.5-10							
Sample Elevation (ft msl):		6.5-7	4.5-5	2.5-3	0.5-1	-1 - (-1.5)	7-7.5	5-5.5	0-0.5	-1.5 - (-2)							
Lab Sample ID:		JC7286-44A	JC7286-45A	JC7286-46A	JC7286-47A	JC7286-48A	JC7286-1A	JC7286-2A	JC7286-3A	JC7286-4A							
Date Sampled:		10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015							
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q	R	Q		
Antimony	7440-36-0	450	31	6	mg/kg	<2.0 NJ-		2.3 NJ-		<2.2 NJ-		<2.2 NJ-		<2.3 NJ-		<2.4 NJ-	
Chromium	7440-47-3	120,000	-	-	mg/kg	9.1		15.3		23.6		22.5		11.7		57.3	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	8.3		13.9		13		16.6		11.9		28.6	
Thallium	7440-28-0	-	-	3	mg/kg	<1.0		<1.2		<1.1		<1.1		<1.1		<1.2	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	10.4 NJ-		27.5 NJ-		25.3 NJ-		34.1 NJ-		17.6 NJ-		41.4	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.41 NJ- / <0.41 NJ-		<0.47 NJ- / <0.47 NJ-		<0.45 NJ- / 0.69 NJ-		0.58 NJ- / <0.46 NJ-		<0.47 NJ- / <0.47 NJ-		0.96 NJ- / <0.47 NJ-	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-		-		-		-		-		-	
Iron, Ferrous	-	-	-	-	%	-		-		-		-		-		-	
Redox Potential Vs H2	-	-	-	-	mV	341		458		306		324		318		254	
Solids, Percent	-	-	-	-	%	97.1		85.3		88.7		86.6		85.8		84.3	
Sulfide Screen	-	-	-	-	-	-		-		-		-		-		-	
Total Organic Carbon	-	-	-	-	mg/kg	-		-		-		-		-		-	
pH	-	-	-	-	su	8		6.88		7.44		6.74		6.59		8.53	

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
- ft bgs = feet below ground surface
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- *Nickel site specific impact to groundwater screening level method calculated using SPLP laboratory methods; SPLP = Synthetic Precipitation Leaching Procedure.
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Result exceeded criteria

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- 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.

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN09A				BRN10																			
		Client Sample ID:		BRN09A_1-1.5		BRN09A_5-5.5		BRN09A_7-7.5		BRN09A_9-9.5		BRN10_1-1.5		BRN10_3-3.5		BRN10 DUP01		BRN10_5-5.5		BRN10_7-7.5		BRN10_9-9.5			
		Sample Depth (ft bgs):		1-1.5		5-5.5		7-7.5		9-9.5		1-1.5		3-3.5		3-3.5		5-5.5		7-7.5		9-9.5			
		Sample Elevation (ft msl):		6.5-7		2.5-3		0.5-1		-1 - (-1.5)		6.5-7		4.5-5		4.5-5		2.5-3		0.5-1		-1 - (-1.5)			
		Lab Sample ID:		JC7286-5A		JC7286-6A		JC7286-7A		JC7286-8A		JC7286-9A		JC7286-10A		JC7286-14A		JC7286-11A		JC7286-12A		JC7286-13A			
		Date Sampled:		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/22/2015		10/22/2015		10/21/2015		10/22/2015		10/22/2015		10/21/2015			
		Matrix:		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil			
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (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	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	<2.1 NJ-	<2.0 NJ-	2 NJ-	<2.1 NJ-	<2.1 NJ-	<2.3 NJ-	<2.2 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.3 NJ-	<2.2 NJ-	<2.2 NJ-	<2.2 NJ-	
Chromium	7440-47-3	120,000	-	-	mg/kg	37.4	203	19.3	25.8	98.5	20.7	25.7	25.7	64.1	11.5	21.6	15	15	15	15	15	15	15	15	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	18	19.6	14	17.6	29	25.7	18.5	15.6	10.5	10.5	15	15	15	15	15	15	15	15	15	
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.0	<1.0	<1.0	<1.0	<1.2	<1.1	<1.1	<1.1	<1.1	<2.2 ^a	<2.2 ^a	<2.2 ^a	<2.2 ^a	<2.2 ^a	<2.2 ^a	<2.2 ^a	<2.2 ^a	<2.2 ^a	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	33.7	27.7	20.2	34.3	63.7	19.8	22.2	54.2	17	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	1.2 NJ- / <0.44 NJ-	0.88 NJ- / <0.52 NJ-	<0.66 NJ- / <0.66 NJ-	2 NJ- / <0.72 NJ-	1.7 NJ- / <0.55 NJ-	0.74 NJ- / <0.46 NJ-	1.5 NJ- / 1 NJ-	0.54 NJ- / 1.1 NJ-	1.2 NJ- / 0.62 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	<0.47 NJ- / <0.47 NJ-	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron, Ferrous	-	-	-	-	%	0.84 ^b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Redox Potential Vs H2	-	-	-	-	mV	236	203	208	200	306	311	228	276	321	258	258	258	258	258	258	258	258	258	258	
Solids, Percent	-	-	-	-	%	91.5	77.2	60.9	55.6	73.2	87.7	86	87.9	88	87	87	87	87	87	87	87	87	87	87	
Sulfide Screen	-	-	-	-	-	NEGATIVE ^c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon	-	-	-	-	mg/kg	57,300 ^d J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH	-	-	-	-	su	8.56	9.44	8.82	9.06	7.72	8.38	8.49	8.31	7.96	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	

Footnotes:
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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.

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN10A					BRN11										
Client Sample ID:		BRN10A_1-1.5	BRN10A_3-3.5	BRN10A_5-5.5	BRN10A_7-7.5	BRN10A_9-9.5	BRN11_0.5-1	BRN11_2-2.5	BRN11_5-5.5	BRN11_7-7.5							
Sample Depth (ft bgs):		1-1.5	3-3.5	5-5.5	7-7.5	9-9.5	0.5-1	2-2.5	5-5.5	7-7.5							
Sample Elevation (ft msl):		6.5-7	4.5-5	2.5-3	0.5-1	-1 - (-1.5)	7-7.5	5.5-6	2.5-3	0.5-1							
Lab Sample ID:		JC7286-15A	JC7286-16A	JC7286-17A	JC7286-18A	JC7286-19A	JC7286-35A	JC7286-36A	JC7286-37A	JC7286-38A							
Date Sampled:		10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015							
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil							
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q	R	Q		
Antimony	7440-36-0	450	31	6	mg/kg	<2.2 NJ-	<2.0 NJ-	<2.0 NJ-	<2.0 NJ-	<2.5 NJ-	<2.1 NJ-	2.3 NJ-	<2.0 NJ-	7.7 NJ-			
Chromium	7440-47-3	120,000	-	-	mg/kg	19.7	20.6	13.6	21.8	20.3	63.5 NJ+	140 NJ+	26.6 NJ+	27.7 NJ+			
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	18	19.3	11.8	13.2	14.6	17.1	27.2	21	20.9			
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.0	<1.0	<0.99	<1.2	<1.0	<1.2	<0.98	<1.0			
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	14.2	18.6	14.5	19.4	32.1	69.7	33.7	21	25.2			
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	0.8 NJ- / <0.45 NJ-	<0.53 NJ- / <0.53 NJ-	0.77 NJ- / <0.53 NJ-	0.68 NJ- / <0.57 NJ-	0.93 NJ- / <0.50 NJ-	3.8 *J	18.5 *J	<0.55 *J / 0.53	<0.61 *J			
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-			
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-			
Redox Potential Vs H2	-	-	-	-	mV	237	240	185	197	176	312	328	299	317			
Solids, Percent	-	-	-	-	%	89.5	75.5	75.4	70	79.8	92.8	82.9	72.6	66			
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-			
pH	-	-	-	-	su	9.27	9.17	9.3	9	8.67	9.17	7.84	7.87	7.5			

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
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- *Nickel site specific impact to groundwater screening 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>

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

Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)

		Sample Location: BRN11A					BRN12														
		Client Sample ID:					BRN11A_1-1.5	BRN11A_3-3.5	BRN11A_5-5.5	BRN11A_7-7.5	BRN11A_9-9.5	BRN12_1.5-2	BRN12 DUP02	BRN12_3.5-4	BRN12_5.5-6	BRN12_7.5-8	BRN12_9.5-10				
		Sample Depth (ft bgs):					1-1.5	3-3.5	5-5.5	7-7.5	9-9.5	1.5-2	1.5-2	3.5-4	5.5-6	7.5-8	9.5-10				
		Sample Elevation (ft msl):					6.5-7	4.5-5	2.5-3	0.5-1	-1 - (-1.5)	6-6.5	6-6.5	4-4.5	2-2.5	0-0.5	-1.5 - (-2)				
		Lab Sample ID:					JC7286-39A	JC7286-40A	JC7286-41A	JC7286-42A	JC7286-43A	JC7286-25A	JC7286-30A	JC7286-26A	JC7286-27A	JC7286-28A	JC7286-29A				
		Date Sampled:					10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/23/2015	10/22/2015	10/22/2015	10/22/2015	10/22/2015	10/22/2015	10/22/2015				
		Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (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
Antimony	7440-36-0	450	31	6	mg/kg	<2.1 NJ-	<2.2 NJ-	2.7 NJ-	<2.3 NJ-	<2.3 NJ-	<2.1 NJ-	<2.2 NJ-	<2.3 NJ-	<2.1 NJ-	<2.4 NJ-	<2.0 NJ-					
Chromium	7440-47-3	120,000	-	-	mg/kg	71.9 NJ+	28 NJ+	21.5	25.9	12.4	46.7 NJ+	119 NJ+	93.7 NJ+	42.5 NJ+	16.9 NJ+	14.8 NJ+					
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	15.1	12.4	16.5	17.1	9.6	20.3	24.1	17.9	13.2	25.2	15.1					
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.1	<1.2	<2.3 ^a	<1.1	<1.1	<1.1	<1.2	<1.0	<1.2	<0.98					
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	53.8	16.6	31.6 NJ-	40.2 NJ-	17.8 NJ-	81	52	23.2	70.3	19.4	21.3					
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	5 *J	3 *J	0.74 NJ- / 0.53 NJ-	<0.48 NJ- / <0.48 NJ-	<0.47 NJ- / 0.73 NJ-	2.3 *J	4.5 *J	8.1 *J	3.6 *J	<0.48 *J	<0.66 *J					
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-					
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-	-					
Redox Potential Vs H2	-	-	-	-	mV	324	361	362	299	205	272	342	262	286	294	320					
Solids, Percent	-	-	-	-	%	94.8	93.5	81.1	84	85.3	90.3	87.5	86.9	92.7	84.1	60.9					
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-					
pH	-	-	-	-	su	8.68	7.83	7.72	7.41	7.43	8.14	7.76	8.04	8.81	7.6	7.12					

Footnotes:

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- ^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.
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- *Nickel site specific impact to groundwater screening 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>

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

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRN12A				BRN13A															
		Client Sample ID:		BRN12A_2-2.5		BRN12A_4-4.5		BRN12A_6-6.5		BRN12A_8-8.5		BRN13A_0.5-1		BRN13A_2.5-3		BRN13A_4.5-5		BRN13A_6.5-7		BRN13A_8.5-9	
		Sample Depth (ft bgs):		2-2.5		4-4.5		6-6.5		8-8.5		0.5-1		2.5-3		4.5-5		6.5-7		8.5-9	
		Sample Elevation (ft msl):		5.5-6		3.5-4		1.5-2		0- (-0.5)		7-7.5		5-5.5		3-3.5		1-1.5		- 0.5 - (-1)	
		Lab Sample ID:		JC7286-31A		JC7286-32A		JC7286-33A		JC7286-34A		JC7286-20A		JC7286-21A		JC7286-22A		JC7286-23A		JC7286-24A	
		Date Sampled:		10/22/2015		10/22/2015		10/22/2015		10/22/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015		10/21/2015	
		Matrix:		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (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		
Antimony	7440-36-0	450	31	6	mg/kg	<2.2 NJ-	<2.4 NJ-	<2.4 NJ-	3.2 NJ-	<2.1 NJ-	<2.0 NJ-	<2.3 NJ-	<2.4 NJ-	<2.4 NJ-							
Chromium	7440-47-3	120,000	-	-	mg/kg	61.4 NJ+	128 NJ+	28.6 NJ+	62.1 NJ+	70.3	122 NJ+	39.3 NJ+	8.5 NJ+	16.2 NJ+							
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	17.3	19.2	19.8	19.1	15.8	30.3	20.1	13.8	20.9							
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.2	<1.2	<1.0	<1.0	<1.0	<1.1	<1.2	<1.2							
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	64.8	28.7	16	27.6	89.3	79.9	13.8	17	19.5							
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	3 *J	10.7 *J	<0.48 *J	<0.65 *J	4.2 NJ- / 4.7 NJ-	3.4 *J	4.3 *J	<0.47 *J	<0.48 *J							
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-							
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-							
Redox Potential Vs H2	-	-	-	-	mV	326	330	301	309	196	253	291	328	200							
Solids, Percent	-	-	-	-	%	89.7	80.1	83.2	61.4	95.6	72	88.5	84.9	83.8							
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-							
pH	-	-	-	-	su	8.49	7.17	7.82	7.28	9.41	8.27	7.33	7.32	7.72							

Footnotes:

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

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS01					BRS01A					
						R	Q	R	Q	R	Q	R	Q	R	Q	R
Antimony	7440-36-0	450	31	6	mg/kg	<2.0 NJ-	<11 NJ-	2.7 NJ-	4.7 NJ-	<2.3 NJ-	<2.4 NJ-	<2.0 NJ-	69 NJ-	<2.6 NJ-	<2.3 NJ-	<2.3 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	22.6	68.7	19.2	27.7	24.1	9.7	115	27.3	26	21.8	24.6
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	14.4	54	27.8	15.4	13.6	8.5	20.4	20.2	9.8	13.4	14.5
Thallium	7440-28-0	-	-	3	mg/kg	<2.0 ^a	<5.7	<1.3	<1.3	<1.2	<1.2	<1.0	<6.9 ^a	<1.3	<1.1	<1.2
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	103	75.3	29.1	13.1	35.5	14.6	53.3	20	35.5	33.5	36.3
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	0.81 NJ- / 0.46 NJ-	<0.47 NJ- / <0.47 NJ-	<0.51 NJ- / <0.51 NJ-	0.55 NJ- / <0.51 NJ-	<0.45 NJ- / 0.77 NJ-	<0.50 NJ- / <0.50 NJ-	0.99	0.66	0.71	0.88	0.85
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	1.2 ^b	-	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	226	240	249	221	197	315	207	271	179	187	213
Solids, Percent	-	-	-	-	%	96.1	85	78.9	78.8	89.4	79.4	61	73.2	80.8	89.5	88.4
Sulfide Screen	-	-	-	-	-	NEGATIVE ^c	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	14,700 ^d	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	8.57	7.79	7.22	8.52	9.18	8.28	6.92	6.78	7.68	7.8	8.01

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**Table 5
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Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS_2				BRS03				
						R	Q	R	Q	R	Q	R	Q	R
Antimony	7440-36-0	450	31	6	mg/kg	<2.4 NJ-	<5.3 ^a NJ-	<13 ^a NJ-	<2.6 NJ-	<3.3 NJ-	<3.1 NJ-	<5.2 ^a NJ-	<47 NJ-	<2.5 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	58.7	3,960	10,000	809	103	60	1,850	13,000	44.6
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	17.9	43.6	19.6	13.2	26.7	22.7	17.6	17.9	18.9
Thallium	7440-28-0	-	-	3	mg/kg	<1.2	<2.6 ^a	<6.6 ^a	<1.3	<1.7	<1.6	<1.3	<24 ^a	<1.2
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	26.8	77.6	73.5	17.8	62.7	53.1	50.4 ^a	<120 ^a	23.5
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.50 NJ- / <0.5 NJ-	<0.51 NJ-	<0.55 NJ-	<0.54 NJ-	1.4 NJ- / <0.64 NJ-	0.87 NJ- / <0.62 NJ-	7.3 NJ- / 2.2 NJ-	0.7 NJ- / 82.2 NJ-	<0.49 NJ- / <0.49 NJ-
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	478	416	335	349	244	248	173	133	114
Solids, Percent	-	-	-	-	%	80.1	79	72.7	74	62.1	64.7	76.8	80.8	81
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	6.95	9.7	10.11	9.95	8.14	8.03	9.78	10.45	9.2

Footnotes:

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- ^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.
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- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
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- *Nickel site specific impact to groundwater screening 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>

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 - R : The reported result is rejected .
- 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.

Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS03A					BRS_4			
						R	Q	R	Q	R	Q	R	Q	R
Antimony	7440-36-0	450	31	6	mg/kg	<2.9 NJ-	<2.5 NJ-	<2.2 NJ-	<28 ^a NJ-	<2.3 NJ-	<3.2 NJ-	<2.9 NJ-	<7.2 ^a NJ-	<2.5 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	89	36.7	14.9	9,920	72.3	112	498	5,370	27.6
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	24.9	39.8	10.9	22.9	39.8	32.9	18.9	18.5	13.6
Thallium	7440-28-0	-	-	3	mg/kg	<1.4	<1.3	<1.1	<14 ^a	<1.2	<1.6	<1.4	<3.6 ^a	<1.2
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	64.8	57.3	72.1	<71 ^a	19.5	78.2	53.4	49	21.4
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.60 NJ- / <0.60 NJ-	2 NJ- / 1.3 NJ-	<0.45 NJ- / <0.45 NJ-	<0.54 NJ- / <0.54 NJ-	<0.47 NJ- / <0.47 NJ-	2.2 NJ-	<0.59 NJ- / 3 NJ-	<0.48 NJ- / 1.5 NJ-	<0.51 NJ- / <0.51 NJ-
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	261	378	239	75.3	95.9	502	478	392	398
Solids, Percent	-	-	-	-	%	67	80.1	89.4	74.3	85.5	63	68.2	83.3	77.9
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	7.67	7.53	9.69	10.83	10.3	7.99	8.65	10.65	10.28

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
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- NA= Not Applicable
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- *Nickel site specific impact to groundwater screening 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>

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

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS05					BRS05A					
						R	Q	R	Q	R	Q	R	Q	R	Q	R
Antimony	7440-36-0	450	31	6	mg/kg	<2.4 NJ-	<2.0 NJ-	<2.3 NJ-	<2.4 NJ-	<2.3 NJ-	<2.1 NJ-	<2.0 NJ-	<2.2 NJ-	<24 ^a NJ-	<48 ^a NJ-	129^a NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	75.9 EJ	112 EJ	22.5 EJ	845 EJ	23.2 EJ	16.8 EJ	73.2 EJ	625 EJ	8,480 EJ	12,900 EJ	14,400 EJ
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	28.5	31	20.1	20	14.2	25.8	23.9	19.6	16.7	16.7	19.3
Thallium	7440-28-0	-	-	3	mg/kg	<1.2	<1.0	<1.2	<1.2	<1.1	<1.1	<0.98	<1.1	<12 ^a	<24 ^a	<25 ^a
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	71.1	65	31.1	38.3	37.7	39.2	60	30.1	74.8 ^a	<120 ^a	<130 ^a
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.46 NJ- / <0.46 NJ-	<0.59 NJ- / <0.59 NJ-	<0.46 NJ- / <0.46 NJ-	<0.48 NJ- / 1.6 NJ-	<0.47 NJ- / <0.47 NJ-	<0.44 NJ- / <0.44 NJ-	<0.54 NJ- / <0.54 NJ-	<0.46 NJ- / 1.9 NJ-	2.5 NJ- / 42.8 NJ-	25.5 NJ- / 2.9 NJ-	37.9 NJ- / 32.4 NJ-
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	328	396	374	319	284	312	375	302	235	283	276
Solids, Percent	-	-	-	-	%	87.5	67.9	86.1	84.2	84.9	90.5	74.3	86.5	83.6	80.3	80.8
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	7.97	7.34	8.35	10.27	9.94	8.2	7.39	9.55	10.7	10.33	10.61

Footnotes:
^a Elevated detection limit due to dilution required for high interfering element.
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The groundwater elevation used for the evaluation of the Impact to Ground Water (IGW) exposure pathway is 5.2 feet NAVD.

**Table 5
Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		Sample Location: BRS5A-A				BRS_6															
		Client Sample ID:				BRS_6 2-2.5				BRS_6 5-5.5				BRS_6 7.5-8.0				BRS_6 9.5-10.0			
		Sample Depth (ft bgs):				8.5-9				9-9.5				9.5-10				10-10.5			
		Sample Elevation (ft msl):				-0.5 - (-1)				-1 - (-1.5)				-1.5 - (-2)				-2 - (-2.5)			
		Lab Sample ID:				JC16626-22RA				JC16626-23A				JC16626-24A				JC16626-25A			
		Date Sampled:				3/18/2016				3/18/2016				3/18/2016				3/18/2016			
		Matrix:				Soil				Soil				Soil				Soil			
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q		R		Q	
Antimony	7440-36-0	450	31	6	mg/kg	-	-	-	-	-	-	-	-	<3.3 NJ-	2.5 NJ-	<2.4 NJ-	<2.4 NJ-				
Chromium	7440-47-3	120,000	-	-	mg/kg	18,300 EJ	48,300	82,100	893	123	47.7	18.2	39.1	28.8	17.6	35.3	14.7				
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	-	-	-	-	<1.7	<1.2	<1.2	<1.2	74.3	34.3	29.8	45.7				
Thallium	7440-28-0	-	-	3	mg/kg	-	-	-	-												
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	-	-	-	-												
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	4.5 NJ- / <0.52 NR	0.52	<0.53	0.98	<0.67 NJ- / 1.9 NJ-	<0.49 NJ- / 1.2 NJ-	<0.50 NJ- / 0.82 NJ-	<0.48 NJ- / <0.48 NJ-								
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	45.7	-	-	-												
Iron, Ferrous	-	-	-	-	%	-	-	-	-	1.1 ^b	-	-	-								
Redox Potential Vs H2	-	-	-	-	mV	134	247	160	220	505	466	459	462								
Solids, Percent	-	-	-	-	%	77.6	76.7	75.8	54.1	59.5	81.8	79.9	83.2								
Sulfide Screen	-	-	-	-	-	-	-	-	-	NEGATIVE ^c	-	-	-								
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	107,000	-	-	-								
pH	-	-	-	-	su	9.7	9.44	9.25	8.6	8.21	8.89	9.61	9.38								

Footnotes:

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

**Table 5
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Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS07					BRS07A				
						R	Q	R	Q	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	<2.3 NJ-	<2.4 NJ-	<2.6 NJ-	<2.6 NJ-	2.7 NJ-	<2.4 NJ-	<2.5 NJ-	<2.3 NJ-	2.9 NJ-	<2.3 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	59.2 EJ	14.6 EJ	10.7 EJ	7.3 EJ	19.3 EJ	10.6 EJ	112 EJ	10.4 EJ	46.8 EJ	32
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	21.8	29.5	19.3	<5.2	10.6	16.1	25.2	9.2	20.9	14.2
Thallium	7440-28-0	-	-	3	mg/kg	<1.2	<1.2	<1.3	<1.3	<1.0	<2.4 ^a	<1.2	<1.1	<2.5 ^a	<1.1
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	62.9	14.6	12.5	<6.5 EJ	17.3 EJ	118 EJ	55.7 EJ	13.4 EJ	16.6 EJ	39.9
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.47 NJ- / <0.47 NJ-	6.1 NJ- / <0.50 NJ-	<0.50 NJ- / <0.50 NJ-	0.9 NJ- / <0.51 NJ-	<0.76 NJ- / <0.76 NJ-	<0.47 NJ- / 0.49 NJ-	3.3 NJ- / <0.51 NJ-	<0.45 NJ- / <0.45 NJ-	1.2 NJ- / <0.50 NJ-	9.1 NJ- / <0.45 NJ-
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	0.94 ^b	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	511	265	234	202	130	94.4	234	228	201	187
Solids, Percent	-	-	-	-	%	85.2	80	80.1	78.2	52.3	85.7	79.1	88.8	79.6	88.4
Sulfide Screen	-	-	-	-	-	NEGATIVE ^c	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	259,000 ^d	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	7.39	7.37	7.61	7.64	7.63	8.63	7.77	8.56	8.03	8.79

Footnotes:

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**Table 5
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Site 65, Burma Road, Jersey City, NJ
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Analyte	CAS#	Sample Location:																		
		BRS_8					BRS09													
		Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	
Antimony	7440-36-0	450	31	6	mg/kg	<2.7 NJ-	<2.3 NJ-	<2.4 NJ-	<2.3 NJ-	<2.3 NJ-	<2.6 NJ-	<2.5 NJ-	<12 ^a NJ-	<100 ^a NJ-	<12 ^a NJ-	<2.2 NJ-				
Chromium	7440-47-3	120,000	-	-	mg/kg	54.9	40.2	14.3	30.3	28.3	132	128	2,710	28,000	3,290	312				
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	21.1	15.9	11.4	19.4	18.8	28.6	24.1	32.1	131	14.7	16.2				
Thallium	7440-28-0	-	-	3	mg/kg	<1.3	<1.2	<1.2	<1.1	<1.2	<1.3	<1.3	<5.8 ^a	<51 ^a	<5.8 ^a	<1.1				
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	47.4	31.2	20.3	36.8	37.4	77.9	75.1	46.8 ^a	543 ^a	56.2 ^a	46.5				
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.55 NJ- / <0.55 NJ-	<0.47 NJ- / <0.47 NJ-	<0.49 NJ- / <0.49 NJ-	<0.45 NJ- / 0.5 NJ-	<0.46 NJ-	0.59 NJ- / <0.54 NJ-	0.61	11.7	0.85	30.2	24				
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-				
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-	-				
Redox Potential Vs H2	-	-	-	-	mV	507	451	311	459	405	254	270	262	232	211	166				
Solids, Percent	-	-	-	-	%	72.7	85.5	82.4	88.8	87.5	73.4	75.6	83.3	55.3	86.5	85.9				
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-				
pH	-	-	-	-	su	6.55	7.99	7.27	7.97	7.88	7.83	7.77	7.67	8.18	9.6	9.18				

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Burma Road Delineation Soil Boring Analytical Summary Table
Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS9-A		BRS09A						BRS_10			
						R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	-	<2.1 NJ-	<2.4 NJ-	<2.4 NJ-	<2.2 NJ-	<2.3 NJ-	<2.2 NJ-	2.4 NJ-	<2.2 NJ-	<2.3 NJ-		
Chromium	7440-47-3	120,000	-	-	mg/kg	99 / 395 EJ	12	30	631	36.1	42.6	28.7	39.3 ^a	33.4	19.4		
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	-	10.5	38.2	13.5	11.6	12.1	17.8	27.8	16.4	14.4		
Thallium	7440-28-0	-	-	3	mg/kg	-	<1.1	<1.2	<1.2	<1.1	<1.2	<1.1	<2.4 ^a	<1.1	<1.1		
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	-	15.4	29.2	39.4	26.3	27	28.2	15.7	28.9	22.7		
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	3.3 NJ- / <0.52 NJ-	0.51 NJ- / <0.43 NJ-	<0.47 NJ- / <0.47 NJ-	2.6 NJ- / 20.6 NJ-	2.8 NJ- / 2.5 NJ-	<0.46 NJ- / 0.75 NJ-	<0.46 NJ- / 0.89 NJ-	<0.49 NJ- / <0.49 NJ-	<0.46 NJ- / 1.5 NJ-	<0.46 NJ- / <0.46NJ-		
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	0.83	-	-	-	-	-	-	-	-	-		
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-		
Redox Potential Vs H2	-	-	-	-	mV	149	234	263	296	287	302	509	263	462	467		
Solids, Percent	-	-	-	-	%	77.3	93.1	85.1	86.6	87.7	87.7	87.4	80.9	87.8	87.3		
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-		
pH	-	-	-	-	su	7.93	6.25	7.14	8.23	7.26	8.23	8.48	7.54	8.98	9.08		

Footnotes:

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Site 65, Burma Road, Jersey City, NJ
Sampled by APTIM (f/k/a CB&I)**

		BRS11						BRS11A									
Sample Location:																	
Client Sample ID:		BRS11_2-2.5	BRS11_4-4.5	BRS11 DUP02	BRS11_6-6.5	BRS11_8-8.5	BRS11_9.5-10	BRS11A_1-1.5	BRS11A_3-3.5	BRS11A_5-5.5	BRS11A DUP04	BRS11A_7-7.5	BRS11A_9-9.5				
Sample Depth (ft bgs):		2-2.5	4-4.5	4-4.5	6-6.5	8-8.5	9.5-10	1-1.5	3-3.5	5-5.5	5-5.5	7-7.5	9-9.5				
Sample Elevation (ft msl):		5.5-6	3.5-4	3.5-4	1.5-2	0 - (-0.5)	-1.5 - (-2)	6.5-7	4.5-5	2.5-3	2.5-3	0.5-1	-1 - (-1.5)				
Lab Sample ID:		JC7035-85	JC7035-86	JC7035-98	JC7035-87	JC7035-66	JC7035-67	JC7035-38	JC7035-39	JC7035-40	JC7035-43	JC7035-41	JC7035-42				
Date Sampled:		10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015				
Matrix:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	R		Q		R		Q		R		Q	
						R	Q	R	Q	R	Q	R	Q	R	Q		
Antimony	7440-36-0	450	31	6	mg/kg	<2.3 NJ-	<2.2 NJ-	<4.3 ^a NJ-	<2.1 NJ-	<2.4 NJ-	<2.3 NJ-	<2.2 NJ-	128 NJ-	<2.3 NJ-	<2.5 NJ-	<2.3 NJ-	<2.2 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	32.9	49 J	1,650 J	37.2	16	17.6	28.2	14.2	33.6	15.1 J	22.3	22.2
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	18.9	18.5	18.9	15	14.1	14.3	16.3	16	10.8	7.1	16	14
Thallium	7440-28-0	-	-	3	mg/kg	<1.1	<1.1	<2.2 ^a	<1.1	<1.2	<1.1	<1.1	<2.2	<1.1	<1.2	<1.2	<1.1
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	28.1	64.9 J	14.7 ^a J	43.1	26.4	26.7	61.5	16.3	58.4	40	24.4	29.6
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	0.56 NJ- / <0.45 NJ-	0.65 NJ- / <0.43 NJ-	160 NJ- / 71.6 NJ-	0.64 NJ- / <0.45 NJ-	<0.48	<0.46	0.88 NJ- / 0.45 NJ-	<0.45 NJ- / <0.45 NJ-	<0.45 NJ- / <0.45 NJ-	0.53 NJ- / <0.48 NJ-	0.62 NJ- / 0.64 NJ-	<0.46 NJ- / 0.78 NJ-
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	306	160	296	265	268	214	272	263	238	260	259	250
Solids, Percent	-	-	-	-	%	89.1	93.7	88.5	88.6	83	86.4	93.9	89.6	89.1	82.5	84.8	87.3
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	8.57	11.35	6.54	7.45	7.89	7.15	8.68	8.32	8.41	8.55	8.08	8.52

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Analyte	CAS#	Non-Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Residential Direct Contact Soil Remediation Standard (NJAC 7:26D 9/17)	Default Impact to Groundwater Soil Screening Level (11/13)	Units	BRS11B					BRS11B-A				
						R	Q	R	Q	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	<2.4 NJ-	<2.2 NJ-	<4.6 ^a NJ-	<2.4 NJ-	<2.2 NJ-	-	-	-	-	
Chromium	7440-47-3	120,000	-	-	mg/kg	63.5	33.9	1,460	953	1,170	1,940 / 2,030 EJ	2,260	40.7		
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	22.9	27.6	20	11.5	13	-	-	-		
Thallium	7440-28-0	-	-	3	mg/kg	<1.2	<1.1	<1.2	<1.2	<1.1	-	-	-		
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	78.9	21.3	68.3 ^a	36.7	38	-	-	-		
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	0.75 NJ- / <0.48 NJ-	1.2 NJ- / 1 NJ-	17.8 NJ- / 18.7 NJ-	45.7 NJ- / 70.4 NJ-	73.6 NJ- / 86.1 NJ-	2.1 NJ- / 40.2 NJ-	7.8	1.8		
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	73.9	-	-		
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-		
Redox Potential Vs H2	-	-	-	-	mV	297	254	274	239	258	124	288	337		
Solids, Percent	-	-	-	-	%	82.6	90.4	87.2	81.5	89.4	80.6	87.6	46.3		
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-		
pH	-	-	-	-	su	8.29	8.45	8.65	8.36	7.32	8.26	8.73	7.88		

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						R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R
Antimony	7440-36-0	450	31	6	mg/kg	<2.7 NJ-	<2.6 NJ-	<2.6 NJ-	<3.0 NJ-	<3.1 NJ-	<2.1 NJ-	<2.1 NJ-	<2.6 NJ-	<2.2 NJ-	<2.3 NJ-	<2.0 NJ-	2.2 NJ-	
Chromium	7440-47-3	120,000	-	-	mg/kg	48.2	22	21.3	19.1	16.7	34.7	23.4	72	56.7 J	129 J	40.1	28	
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	18.8	16.7	12.4	19.4	19	13.9	14.1	24.5	56 J	17.1 J	11	28.8	
Thallium	7440-28-0	-	-	3	mg/kg	<1.3	<1.3	<1.3	<1.5	<1.5	<2.1	<1.0	<1.3	<1.1	<1.1	<1.0	<1.0	
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	42.8	19.2	21.6	24.5	27.9	102	83	57.7	20	21.4	42.5	32.1	
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	<0.53 / 0.69	<0.52NJ- / 0.67NJ-	<0.49 NJ-	<0.60NJ- / <0.60NJ-	<0.63 NJ- / <0.63NJ-	0.48	1.5	1.5	0.66 NJ- / 4.2 NJ-	1.6 NJ- / 3.1 NJ-	0.55 NJ- / <0.43 NJ-	<0.64 NJ- / <0.64 NJ-	
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-	0.47 ^b	-	
Redox Potential Vs H2	-	-	-	-	mV	427	515	486	502	521	260	279	279	309	308	303	220	
Solids, Percent	-	-	-	-	%	75.4	77.4	81.4	67.1	64	97.4	94.5	74.9	86.1	87	94.1	62.9	
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NEGATIVE ^c	-	
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-	103,000 ^d J	-	
pH	-	-	-	-	su	7.98	8.18	8.12	7.94	7.72	9.16	8.38	7.24	7.51	7.72	8.19	7.52	

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						R	Q	R	Q	R	Q	R	Q	R	Q
Antimony	7440-36-0	450	31	6	mg/kg	<2.6 NJ-	<2.2 NJ-	<2.1 NJ-	<2.4 NJ-	<2.3 NJ-	<2.0 NJ-	<2.7 NJ-	<2.1 NJ-	<2.3 NJ-	<2.4 NJ-
Chromium	7440-47-3	120,000	-	-	mg/kg	140	18.5	31	14	16.5	34.4 EJ	51.1 EJ	53.5	14.6	11.6
Nickel	7440-02-0	23,000	1,600	205*	mg/kg	26.3	15.5	10.9	364	17.9	13.3	21.6	17.6	11.7	10.9
Thallium	7440-28-0	-	-	3	mg/kg	<1.3	<1.1	<1.0	<1.2	<1.2	<1.0	<1.3	<1.1	<1.2	<1.2
Vanadium	7440-62-2	1,100	390**	NA	mg/kg	69.6	12.6	86.6	16.8	19.2	74.6 EJ	47.6 EJ	67.4	22	17.9
Chromium, Hexavalent ^e	18540-29-9	20	20	-	mg/kg	1.6	1.4	0.92	<0.49	<0.48	2.6 NJ- / 0.75 NJ-	3.4 NJ- / 0.89 NJ-	2.9 NJ- / <0.42 NJ-	2.2 NJ- / <0.48 NJ-	<0.49 NJ- / <0.49 NJ-
Chromium, Hexavalent ^f	18540-29-9	20	20	-	mg/kg	-	-	-	-	-	-	-	-	-	-
Iron, Ferrous	-	-	-	-	%	-	-	-	-	-	-	-	-	-	-
Redox Potential Vs H2	-	-	-	-	mV	261	294	269	295	276	279	306	281	270	257
Solids, Percent	-	-	-	-	%	75.7	89.5	93.8	82.4	82.7	96.2	76.4	95.6	83.9	82.3
Sulfide Screen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	-	-	-	-	mg/kg	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	su	7.59	8.16	9.27	7.78	7.62	8.93	7.6	9	7.88	7.56

Footnotes:

- ^a Elevated detection limit due to dilution required for high interfering element.
- ^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 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.
- ^d Analysis completed out of holding time.
- ^e Analyzed using Method 7196A
- ^f Analyzed using Method 7199 (Sample was rehomogenized)
- ft bgs = feet below ground surface
- ft msl = feet mean sea level
- mg/kg = milligram per kilogram
- su = standard unit
- mV = millivolts
- NA= Not Applicable
- = No Standard or Not Analyzed
- *Nickel site specific impact to groundwater screening 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>

Result exceeded criteria

Analytical Data Qualifiers:

- <: The analyte was analyzed for, but was not detected above the stated reporting limit.
 - J: The reported result is an estimated value.
 - EJ: The reported value is estimated due to the presence of interference; indeterminate bias direction.
 - NJ-: Matrix spike recovery below control limits; result is an estimated value with potential low bias.
 - NJ+: Matrix spike recovery above control limits; result is an estimated value with potential positive bias.
 - *: Duplicate analysis not within control limits; indeterminate bias direction.
 - *J: Duplicate analysis not within control limits; result is estimated with 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 .
- 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.