

TABLE 3  
AOC 3 Sample Results by Phase for Hexavalent Chromium and CCPW Metals  
Site 156 - Building #2 Boiler Room  
PPG, Jersey City, New Jersey

Phase	Location	Sample ID	Lab Sample ID	Sample Date	Above Ground Height <sup>2</sup> (ft)	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Start (NAVD88)	Sample End (NAVD88)	Sample Matrix	Sample Type	Coordinates		Analyte CAS #	CHROMIUM (HEXAVALENT)	CHROMIUM	ANTIMONY	NICKEL	THALLIUM	VANADIUM		
												DIGWSSL <sup>4</sup> (mg/kg)	18540-29-9		7440-47-3	7440-36-0	7440-02-0	7440-28-0	7440-62-2			
														CrSCC (mg/kg)	20	120000	N/A	N/A	N/A	N/A		
														RDCSRS (mg/kg)	N/A	N/A	31	1600	N/A	370 <sup>3</sup>		
														NRDCSRS (mg/kg)	N/A	N/A	450	23000	N/A	1100		
														GWOS (µg/l)	N/A	70	6	48	3	N/A		
														GWOS (µg/l)	N/A	70	6	100	2	60		
Concrete Samples																						
Initial	IRM Column	156-MT2CNCT-20121105	JB20562-2	11/5/2012	1	0.0	0.1	5.7	5.6	CO	N	619564	686793	mg/kg	939	1880	NA	NA	NA	NA		
Initial	IRM Column	156-MT2CNCT-20121113	JB21215-1	11/13/2012	1	0.0	0.1	5.7	5.6	CO	N	619564	686793	mg/kg	645	NA	NA	NA	NA	NA		
Phase 1	Slab	C3	156-C3-A	1/7/2013	N/A	0.7	0.9	4.9	4.8	CO	N	619576	686789	mg/kg	1.3	19.4	0.16	U	6.3	0.82	J	10.4
Phase 1	Slab	C1	156-C1-A	1/7/2013	N/A	0.8	1.0	4.8	4.7	CO	N	619552	686796	mg/kg	17.2	44.5	0.16	U	6.2	0.63	J	11.7
Phase 1	Slab	C2	156-C2-A	1/7/2013	N/A	0.8	1.0	4.8	4.7	CO	N	619563	686784	mg/kg	2.7	16.5	0.15	U	5.3	0.73	J	9.2
Phase 1	Slab	C2	156-C2-X	1/7/2013	N/A	0.8	1.0	4.8	4.7	CO	FD	619563	686784	mg/kg	0.77	17.0	0.16	U	5.7	0.64	J	9.9
Phase 2	Column	G6	156-G6	2/18/2013	5	0.0	0.1	5.7	5.6	CO	N	619579	686777	mg/kg	1.4	9.0	0.15	UJ	5.5	0.43	U	8.6
Phase 2	Column	G7	156-G7	2/18/2013	5	0.0	0.1	5.7	5.6	CO	N	619579	686797	mg/kg	1.7	10.9	0.36	J	5.7	0.41	U	9.9
Phase 2	Column	G8	156-G8	2/18/2013	5	0.0	0.1	5.7	5.6	CO	N	619579	686813	mg/kg	1.6	8.5	0.66	J	5.9	0.34	J	7.6
Phase 2	Column	G9	156-G9	2/18/2013	5	0.0	0.1	5.7	5.6	CO	N	619560	686815	mg/kg	1.7	10.6	0.16	J	6.2	0.74	J	9.2
Phase 2	Column	G10	156-G10	2/18/2013	5	0.0	0.1	5.7	5.6	CO	N	619546	686789	mg/kg	1.5	9.0	0.47	J	5.0	0.21	U	8.1
Phase 2	IRM Column	G2	156-G2	2/18/2013	5	0.0	0.1	5.7	5.6	CO	N	619564	686794	mg/kg	2.0	11.0	0.26	J	6.0	0.61	J	9.5
Phase 2	IRM Column	EB-1	156-BLDG2-CONC-EB-1	6/25/2013	0.1	0.0	0.1	5.7	5.6	CO	N	619564	686796	mg/kg	25.2	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	ET-1	156-BLDG2-CONC-ET-1	6/25/2013	1	0.0	0.1	5.7	5.6	CO	N	619564	686796	mg/kg	6.0	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	EB-4	156-BLDG2-CONC-EB-4	6/25/2013	0.1	0.25	0.33	5.4	5.3	CO	N	619564	686796	mg/kg	265	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	ET-4	156-BLDG2-CONC-ET-4	6/25/2013	1	0.3	0.3	5.4	5.3	CO	N	619564	686796	mg/kg	3.6	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	SB-1	156-BLDG2-CONC-SB-1	6/25/2013	0.1	0.0	0.1	5.7	5.6	CO	N	619564	686794	mg/kg	441	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	ST-1	156-BLDG2-CONC-ST-1	6/25/2013	1	0.0	0.1	5.7	5.6	CO	N	619564	686794	mg/kg	375	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	SB-4	156-BLDG2-CONC-SB-4	6/25/2013	0.1	0.25	0.33	5.4	5.3	CO	N	619564	686794	mg/kg	373	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	ST-4	156-BLDG2-CONC-ST-4	6/25/2013	1	0.25	0.33	5.4	5.3	CO	N	619564	686794	mg/kg	71.1	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	NB-1	156-BLDG2-CONC-NB-1	6/25/2013	0.1	0.0	0.1	5.7	5.6	CO	N	619564	686798	mg/kg	761	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	NT-1	156-BLDG2-CONC-NT-1	6/25/2013	1	0.0	0.1	5.7	5.6	CO	N	619564	686798	mg/kg	49.3	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	NB-4	156-BLDG20-ONC-NB-4	6/25/2013	0.1	0.25	0.33	5.4	5.3	CO	N	619564	686798	mg/kg	553	NA	NA	NA	NA	NA	NA	
Phase 2	IRM Column	NT-4	156-BLDG2-CONC-NT-4	6/25/2013	1	0.25	0.33	5.4	5.3	CO	N	619564	686798	mg/kg	9.4	NA	NA	NA	NA	NA	NA	
Phase 2	Slab	G3	156-G3	2/18/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619564	686794	mg/kg	1.2	7.5	0.15	UJ	5.1	0.47	J	6.2
Phase 2	Slab	G4	156-G4	2/18/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619563	686790	mg/kg	1.9	11.8	0.16	J	7.1	0.82	J	9.6
Phase 2	Slab	G5	156-G5	2/18/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619563	686787	mg/kg	1.7	11.5	0.39	J	5.9	0.22	U	10.6
Phase 2	Slab	C4	156-C4-A	2/18/2013	N/A	0.6	0.8	5.0	4.9	CO	N	619563	686778	mg/kg	0.30	12.4	0.32	J	6.4	0.53	J	12.7
Phase 2	Slab	C4	156-C4-XX	2/18/2013	N/A	0.6	0.8	5.0	4.9	CO	FD	619563	686778	mg/kg	0.21	11.0	0.23	J	5.4	0.72	J	9.2
Phase 3	IRM Column	N3ft	156-BLDG2-CONC-N3FT-0.5	8/15/2013	1.7	0.0	0.04	5.7	5.6	CO	N	619564	686798	mg/kg	5.0	25.0	0.24	U	10.5	0.29	U	7.5
Phase 3	IRM Column	E3ft	156-BLDG2-CONC-E3FT-0.5	8/15/2013	2.4	0.0	0.04	5.7	5.6	CO	N	619564	686796	mg/kg	5.1	17.7	0.22	U	7.6	0.28	U	8.8
Phase 3	IRM Column	S3ft	156-BLDG2-CONC-S3FT-0.5	8/15/2013	2.05	0.0	0.04	5.7	5.6	CO	N	619564	686794	mg/kg	2.2	27.7	0.23	U	5.1	0.28	U	8.3
Phase 3	IRM Column	W3ft	156-BLDG2-CONC-W3FT-0.5	8/15/2013	2.5	0.0	0.04	5.7	5.6	CO	N	619563	686796	mg/kg	5.0	41.6	0.31	U	5.4	0.38	U	11.4
Phase 3	IRM Column	W3ft	156-BLDG2-CONC-W3FT-2-0.5	8/28/2013	2.5	0.0	0.04	5.7	5.6	CO	N	619563	686796	mg/kg	13.6	NA	NA	NA	NA	NA	NA	
Phase 3	IRM Column	N5ft	156-BLDG2-CONC-N5FT-0.5	8/15/2013	5.2	0.0	0.04	5.7	5.6	CO	N	619564	686798	mg/kg	2.7	15.7	0.24	U	5.6	0.30	U	7.1
Phase 3	IRM Column	N5ft	156-BLDG2-CONC-N5FT-0.5	8/15/2013	5.2	0.0	0.04	5.7	5.6	CO	FD	619564	686798	mg/kg	1.7	12.6	0.23	U	8.8	0.28	U	10.9
Phase 3	IRM Column	S5ft	156-BLDG2-CONC-S5FT-0.5	8/15/2013	3.2	0.0	0.04	5.7	5.6	CO	N	619564	686794	mg/kg	4.8	50.9	0.24	J	7.7	0.28	U	13.4
Phase 3	Slab	G11	156-BLDG2-CONC-G11	8/15/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619564	686798	mg/kg	61.3	200	0.44	J	39.0	0.32	U	10.4
Phase 3	Slab	G11	156-BLDG2-CONC-G11-2	8/28/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619564	686798	mg/kg	1040	NA	NA	NA	NA	NA	NA	
Phase 3	Slab	G11	156-BLDG2-CONC-G61-2	8/28/2013	N/A	0.0	0.1	5.7	5.6	CO	FD	619564	686798	mg/kg	371	NA	NA	NA	NA	NA	NA	
Phase 3	Slab	G12	156-BLDG2-CONC-G12	8/28/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619565	686799	mg/kg	294	399	0.24	U	4.9	0.39	J	6.7
Phase 3	Slab	G13	156-BLDG2-CONC-G13	9/11/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619565	686801	mg/kg	93.9	407	0.23	U	6.5	0.29	U	9.2
Phase 3	Slab	G13	156-BLDG2-CONC-G63	9/11/2013	N/A	0.0	0.1	5.7	5.6	CO	FD	619565	686801	mg/kg	188	469	0.25	U	7.2	0.33	J	11.8
Phase 3	Slab	G14	156-BLDG2-CONC-G14	9/11/2013	N/A	0.0	0.1	5.7	5.6	CO	N	619566	686803	mg/kg	19.3	165	0.24	U	7.7	0.30	U	11.6
Phase 4	Slab	G19	156-B2-CONC-G19-02-04IN	2/14/2014	N/A	0.2	0.3	5.5	5.3	CO	N	619563	686790	mg/kg	3.5	15.9	0.25	U	4.7	0.31	U	9.8
Phase 4	Slab	G19	156-B2-CONC-G19-08-12IN	2/14/2014	N/A	0.7	1.0	5.0	4.7	CO	N	619563	686790	mg/kg	1.2	12.2	0.27	U	4.3	0.34	U	10.8
Phase 4	Slab	G20	G20(B 5-11)	2/28/2014	N/A	0.7	0.9	4.9	4.7	CO	N	619566	686807	mg/kg	0.37	8.2	0.25	J	5.9	0.29	U	7.9
Phase 4	Slab	G19	156-B2-CONC-G19-00-02IN	2/14/2014	N/A	0.0	0.2	5.7	5.5	CO	N	619563	686790	mg/kg	203	256	0.24	U	4.2	0.30	U	8.9
Phase 5	Pile Cap		BOILER ROOM PILE CAP (1.6)	9/4/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619564	686793	mg/kg	1.8	80.0	0.68	J	10.8	0.42	U	14.2
Phase 5	Pile Cap		BOILER ROOM PILE CAP (1.1)	9/4/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619564	686793	mg/kg	14.8	141	0.52	J	11.8	0.50	U	17.9
Phase 5	Slab		BOILER ROOM PILE CAP ADJ (0.8)	9/9/2014	N/A	0.1	0.1	5.6	5.6	CO	N	619564	686793	mg/kg	1.2	13.8	0.30	U	5.3	0.57	J	10.6
Phase 5	Slab	G21	156-G21	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619564	686788	mg/kg	15.4	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G22	156-G22	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619565	686796	mg/kg	413	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G23	156-G23	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619567	686804	mg/kg	57.8	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G24	156-G24	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619565	686805	mg/kg	5.1	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G25	156-G25	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619565	686793	mg/kg	275	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G26	156-G26	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619562	686788	mg/kg	505	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G28	156-G28	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619575	686795	mg/kg	540	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G31	156-G31	10/24/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619555	686797	mg/kg	8.7	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G33	156-G33	11/7/2014	N/A	0.0	0.1	5.7	5.6	CO	N	619576	686795	mg/kg	434	NA	NA	NA	NA	NA	NA	
Phase 5	Slab	G34	156-G34	11/7/2014	N/A	0.0																

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Phase	Location	Sample ID	Lab Sample ID	Sample Date	Above Ground Height <sup>2</sup> (ft)	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Start (NAVD88)	Sample End (NAVD88)	Sample Matrix	Sample Type	Easting	Northing	DIGWSSL <sup>4</sup> (mg/kg)	CHROMIUM (HEXAVALENT)	CHROMIUM	ANTIMONY	NICKEL	THALLIUM	VANADIUM
															18540-29-9	7440-47-3	7440-36-0	7440-02-0	7440-28-0	7440-62-2
														CrSCC (mg/kg)	20	120000	N/A	N/A	N/A	N/A
														RDCSRS (mg/kg)	N/A	N/A	31	1600	N/A	370 <sup>3</sup>
														NRDCSRS (mg/kg)	N/A	N/A	450	23000	N/A	1100
														GWOS (µg/l)	N/A	70	6	100	2	60
Phase 5	Slab	G38	156-G38	JB82625-1	11/24/2014	N/A	0.0	5.7	5.6	CO	N	619578	686795	mg/kg	29.9	NA	NA	NA	NA	NA
Phase 5	Slab	G39	156-G39	JB82625-3	11/24/2014	N/A	0.0	5.7	5.6	CO	N	619563	686785	mg/kg	5.0	NA	NA	NA	NA	NA
Phase 5	Slab	G40	156-G40	JB82625-2	11/24/2014	N/A	0.0	5.7	5.6	CO	N	619566	686808	mg/kg	4.9	NA	NA	NA	NA	NA
Phase 5	Slab	G41	156-G41	JB82625-5	11/24/2014	N/A	0.0	5.7	5.6	CO	N	619581	686794	mg/kg	4.0	NA	NA	NA	NA	NA
Phase 6	Slab	2015Q1	156-IRM-2015Q1-CONC	JB91264-1	3/31/2015	N/A	0.0	5.7	5.6	CO	N	619556	686805	mg/kg	0.83	82.9	NA	NA	NA	NA
Phase 6	Slab	2015Q3	156-Q3-2015-CF	JC1473-2	8/12/2015	N/A	0.0	5.7	5.6	CO	N	619570	686803	mg/kg	476	J	NA	NA	NA	NA
Phase 7	Slab	2016Q1	156-Q1-2016-EF1	JC17265-1	3/30/2016	N/A	0.0	5.7	5.6	CO	N	619590	686796	mg/kg	139	NA	NA	NA	NA	NA
Phase 7	Slab	156-C11	156-C11-BTM	JC18036-9	4/11/2016	N/A	N/A	N/A	N/A	CO	N	619590	686796	mg/kg	1.1	NA	NA	NA	NA	NA
Phase 7	Slab	156-C11	156-C11-M1D	JC18036-8	4/11/2016	N/A	N/A	N/A	N/A	CO	N	619590	686796	mg/kg	0.86	NA	NA	NA	NA	NA
Phase 7	Slab	156-G42	156-G42	JC18036-10	4/11/2016	N/A	0.0	5.7	5.6	CO	N	619590	686796	mg/kg	0.87	NA	NA	NA	NA	NA
Phase 7	Slab	156-G43	156-G43	JC18036-11	4/11/2016	N/A	0.0	5.7	5.6	CO	N	619590	686797	mg/kg	3.4	NA	NA	NA	NA	NA
Phase 7	Slab	156-G44	156-G44	JC18036-12	4/11/2016	N/A	0.0	5.7	5.6	CO	N	619591	686796	mg/kg	2.2	NA	NA	NA	NA	NA
Phase 7	Slab	156-G45	156-G45	JC18036-13	4/11/2016	N/A	0.0	5.7	5.6	CO	N	619590	686796	mg/kg	1.3	NA	NA	NA	NA	NA
Foam Sample																				
Phase 6	Foam	NA	156-IRM-2015Q1-FOAM	JB91264-2	3/31/2015	N/A	N/A	N/A	N/A	FOAM	N	NA	NA	mg/kg	0.41	NA	NA	NA	NA	NA
Groundwater Samples																				
Initial	Sump Bldg 1		156-MT1SUMP-20121105	JB20562-4	11/5/2012	N/A	N/A	N/A	N/A	GW	N	619205	686778	µg/l	9.6	J	6.6	J	NA	NA
Initial	Sump Bldg 2		156-MT2SUMP-20121105	JB20562-3	11/5/2012	N/A	N/A	N/A	N/A	GW	N	619591	686760	µg/l	6.2	J	9.1	U	NA	NA
Phase 5	Groundwater		BOILER ROOM TEST PIT WATER	JB75928-3A	9/8/2014	N/A	N/A	N/A	N/A	GW	N	619563	686792	µg/l	120	188	2.6	J	3.3	J
Precipitate Samples																				
Phase 6	Slab	2015Q2	156-Q2-2015	JB97572-1	6/22/2015	N/A	0.0	5.7	5.6	P	N	619570	686803	mg/kg	78.5	RA	NA	NA	NA	NA
Phase 6	Slab	2015Q3	156-Q3-2015-PRECIP	JC1473-3	8/12/2015	N/A	0.0	5.7	5.6	P	N	619570	686803	mg/kg	0.50	J	NA	NA	NA	NA
Phase 6	Slab	2015Q4-1	156-Q4-2015-PRECIP1	JC9766-1R	12/3/2015	N/A	0.0	5.7	5.6	P	N	619560	686803	mg/kg	63.9	J	NA	NA	NA	NA
Phase 6	Slab	2015Q4-2	156-Q4-2015-PRECIP2	JC9766-2R	12/3/2015	N/A	0.0	5.7	5.6	P	N	619573	686795	mg/kg	22.5	J	NA	NA	NA	NA
Phase 6	Slab	2015Q4-3	156-Q4-2015-PRECIP3	JC9766-3	12/3/2015	N/A	0.0	5.7	5.6	P	N	619563	686791	mg/kg	102	J	NA	NA	NA	NA
Phase 6	Slab	2015Q4-1	156-Q4-2015-PRECIP1	JC9766-1A	12/3/2015	N/A	0.0	5.7	5.6	P	N	619560	686803	mg/kg	NA	230	NA	NA	NA	NA
Phase 6	Slab	2015Q4-2	156-Q4-2015-PRECIP2	JC9766-2A	12/3/2015	N/A	0.0	5.7	5.6	P	N	619573	686795	mg/kg	NA	397	NA	NA	NA	NA
Phase 6	Slab	2015Q4-3	156-Q4-2015-PRECIP3	JC9766-3A	12/3/2015	N/A	0.0	5.7	5.6	P	N	619563	686791	mg/kg	NA	236	NA	NA	NA	NA
Soil Samples																				
Phase 1	Soil	C2	156-C2-F	JB25744-10	1/7/2013	N/A	3.0	3.2	2.7	SO	N	619563	686784	mg/kg	0.15	U	408	1.2	J	27.6
Phase 1	Soil	C2	156-C2-C	JB25744-7	1/7/2013	N/A	1.5	2.0	4.2	SO	N	619563	686784	mg/kg	42.7	J	1710	J	9.4	J
Phase 1	Soil	C2	156-C2-D	JB25744-8	1/7/2013	N/A	2.0	2.5	3.7	SO	N	619563	686784	mg/kg	10.0	318	2.3	J	21.6	0.27
Phase 1	Soil	C2	156-C2-E	JB25744-9	1/7/2013	N/A	2.5	3.0	3.2	SO	N	619563	686784	mg/kg	6.5	138	1.2	J	18.0	0.32
Phase 1	Soil	C3	156-C3-D	JB25744-2	1/7/2013	N/A	2.0	2.5	3.7	SO	N	619576	686789	mg/kg	10.9	699	3.1	J	19.4	0.36
Phase 1	Soil	C3	156-C3-E	JB25744-3	1/7/2013	N/A	2.5	3.0	3.2	SO	N	619576	686789	mg/kg	0.15	J	70.4	1.1	J	21.5
Phase 1	Soil	C3	156-C3-F	JB25744-4	1/7/2013	N/A	3.0	3.5	2.7	SO	N	619576	686789	mg/kg	0.14	U	44.5	0.46	J	14.2
Phase 1	Soil	C1	156-C1-C	JB25744-13	1/7/2013	N/A	1.5	2.0	4.2	SO	N	619552	686796	mg/kg	17.3	J	291	1.1	J	15.2
Phase 1	Soil	C1	156-C1-X	JB25744-12	1/7/2013	N/A	1.5	2.0	4.2	SO	FD	619552	686796	mg/kg	11.6	J	302	1.1	J	16.2
Phase 2	Soil	C4	156-C4-C	JB29078-9	2/18/2013	N/A	1.5	2.3	4.2	SO	N	619563	686778	mg/kg	3.9	J	466	J	1.9	J
Phase 2	Soil	C4	156-C4-X	JB29078-11	2/18/2013	N/A	1.5	2.3	4.2	SO	FD	619563	686778	mg/kg	5.2	J	686	J	2.1	J
Phase 2	Soil	C4	156-C4-D	JB29078-10	2/18/2013	N/A	2.3	2.5	3.4	SO	N	619563	686778	mg/kg	0.30	J	110	J	0.90	J
Phase 4	Soil	G19	G19(17.5-23.5)	JB61018-2	3/4/2014	N/A	1.5	2.0	4.2	SO	N	619563	686790	mg/kg	9.6	J	2860	J	6.3	J
Phase 4	Soil	G20	G20(22-28)	JB61018-3	3/4/2014	N/A	1.8	2.3	3.8	SO	N	619566	686807	mg/kg	5.4	368	2.1	J	16.5	0.33
Phase 5	Soil		BOILER ROOM PILE CAP ADJ (5.9-6.5)	JB76022-2A	9/9/2014	N/A	5.9	6.5	-0.3	SO	N	619564	686794	mg/kg	0.21	U	161	1.2	J	19.0
Phase 5	Soil		BOILER ROOM PILE CAP ADJ (6.5-7.2)	JB76022-3A	9/9/2014	N/A	6.5	7.2	-0.9	SO	N	619564	686795	mg/kg	0.20	J	322	1.0	J	35.0
Phase 5	Soil		BOILER ROOM PILE CAP ADJ (2.6)	JB76022-1A	9/9/2014	N/A	2.6	3.1	3.1	SO	N	619563	686793	mg/kg	10	164	1.3	J	21.0	0.54
Phase 5	Soil	C2-1	156-C2-1-0-6	JB80531-1	10/30/2014	N/A	1.5	2	4.2	SO	N	619565	686786	mg/kg	55.2	J	NA	NA	NA	NA
Phase 5	Soil	C4-1W	156-C4-0-6	JB80531-3	10/30/2014	N/A	1.5	2	4.2	SO	N	619568	686785	mg/kg	58.6	J	NA	NA	NA	NA
Phase 5	Soil	C4-1W	156-C4-6-12	JB80531-4	10/30/2014	N/A	2	2.5	3.7	SO	N	619568	686785	mg/kg	23.4	J	NA	NA	NA	NA
Phase 5	Soil	C4-1W	156-C4-1-2.5-3	JB84800-3	12/19/2014	N/A	2.5	3	3.2	SO	N	619568	686785	mg/kg	47.5	J	393	1.5	J	19
Phase 5	Soil	C4-1W	156-C4-1-3-3.5	JB84800-4	12/19/2014	N/A	3	3.5	2.7	SO	N	619568	686785	mg/kg	NA	84.7	1.3	J	14.8	0.47
Phase 5	Soil	C4-1W	156-C4-1-3.5-4	JB84800-5T	12/19/2014	N/A	3.5	4	2.2	SO	N	619568	686785	mg/kg	7.0	NA	NA	NA	NA	NA
Phase 5	Soil	C4-1W	156-C4-1-4-4.5	JB84800-6T	12/19/2014	N/A	4	4.5	1.7	SO	N	619568	686785	mg/kg	9.5	NA	NA	NA	NA	NA
Phase 5	Soil	C4-1E	156-C4-1-2.5-3	JB83539-1	12/8/2014	N/A	2.5	3	3.2	SO	N	619570	686785	mg/kg	37.3	394	2.5	J	18.5	0.64
Phase 5	Soil	C4-1E	156-C4-1-3-3.5	JB83539-2AR	12/8/2014	N/A	3	3.5	2.7	SO	N	619570	686785	mg/kg	4.8	116	0.76	J	17.5	0.5
Phase 5	Soil	C5	156-C5-0-6	JB80531-5	10/30/2014	N/A	1.5	2	4.2	SO	N	619563	686786	mg/kg	17.8	J	NA	NA	NA	NA
Phase 5	Soil	C6	156-C6-1.5-2	JB83555-1A	12/8/2014	N/A	1.5	2	4.2	SO	N	619573	686785	mg/kg	5.9	213	1.1	J	14.6	0.57
Phase 5	Soil	C6	156-C6-2.2-5	JB83555-2A	12/8/2014	N/A	2	2.5	3.7	SO	N	619573	686785	mg/kg	14.6	239	0.63	J	17.5	0.48
Phase 5	Soil	C7	156-C7-1.5-2	JB84801-1	12/19/2014	N/A	1.5	2	4.2	SO	N	619565	686783	mg/kg	15.7	J	298	J	2.4	J
Phase 5	Soil	C7	156-C7-2.2-5	JB84801-2	12/19/2014	N/A	2	2.5	3.7	SO	N	619565	686783	mg/kg	6.6	J	866	1.7	J	25.7
Phase 5	Soil	C7	156-C7-2.5-3	JB84801-3TU	12/19/2014	N/A	2.5	3	3.2	SO										

TABLE 3  
AOC 3 Sample Results by Phase for Hexavalent Chromium and CCPW Metals  
Site 156 - Building #2 Boiler Room  
PPG, Jersey City, New Jersey

Phase	Location	Sample ID	Lab Sample ID	Sample Date	Above Ground Height <sup>2</sup> (ft)	Sample Start Depth (ft bgs)	Sample End Depth (ft bgs)	Sample Start (NAVD88)	Sample End (NAVD88)	Sample		Coordinates		Analyte CAS #	CHROMIUM (HEXAVALENT) 18540-29-9	CHROMIUM 7440-47-3	ANTIMONY 7440-36-0	NICKEL 7440-02-0	THALLIUM 7440-28-0	VANADIUM 7440-62-2						
										Matrix	Type	Easting	Northing													
Phase 5	Soil C10	156-C10-2-2.5	JB84799-2	12/19/2014	N/A	2	2.5	3.7	3.2	SO	N	619574	686781	DIGWSSL <sup>4</sup> (mg/kg)	N/A	N/A	6	48	3	N/A						
														GWOS (µg/l)	N/A	70	6	100	2	60						
														mg/kg	0.30	U	240	1.3	J	11.5	0.73	U	24.4			
Boiler Water Samples																										
Initial	Boiler water	BOILER CIRC WATER	JB22052-1	11/26/2012	N/A	N/A	N/A	N/A	N/A	WW	N	619559	686797	µg/l	1.4	U	NA	NA	NA	NA						
Phase 4	Boiler water	SOURCE 1	JB60535-1	2/25/2014	N/A	N/A	N/A	N/A	N/A	WW	N	619556	686799	µg/l	1.5	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 4	Boiler water	POOL	JB60535-2	2/25/2014	N/A	N/A	N/A	N/A	N/A	WW	N	619559	686797	µg/l	29		496		24.5		222		1.7	J	28.4	J
Phase 4	Boiler water	SOURCE 2N	JB60535-3	2/25/2014	N/A	N/A	N/A	N/A	N/A	WW	N	619563	686797	µg/l	1.5	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 4	Boiler water	SOURCE 2S	JB60535-4	2/25/2014	N/A	N/A	N/A	N/A	N/A	WW	N	619563	686797	µg/l	1.5	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Aqueous QA/QC Samples																										
Initial		156-FB20121105	JB20562-1	11/5/2012	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.4	U	0.91	U	NA	NA	NA	NA				
Phase 2		156-FB-021813	JB29078-12	2/18/2013	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.4	U	0.91	U	1.4	U	0.94	U	1.7	U	0.77	U
Phase 2		156-FB-2030625	JB40573-13	6/25/2013	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	2.4	U	NA	NA	NA	NA	NA	NA				
Phase 3		156-BLDG2-FB	JB44947-9	8/15/2013	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	2.4	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 3		FB-20130828	JB45884-5	8/28/2013	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	2.4	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 3		FB-20130911	JB46992-5	9/11/2013	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	2.4	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 4		156-FB20140218	JB60012-5	2/18/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 4		FB_2014.02.25	JB60535-5	2/25/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	0.92	U	2.1	J	1.6	U	1.3	U	0.72	U
Phase 4		FB-2014.03.04	JB61018-4	3/4/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	UJ	0.92	U	1.8	U	1.6	U	1.3	U	0.72	U
Phase 5		FB-20141024	JB80072-13	10/24/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	NA	NA	NA	NA	NA	NA				
Phase 5		156FB11072014	JB81263-4	11/7/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.1	U	NA	NA	NA	NA	NA	NA				
Phase 5		FB-103014	JB80531-7	10/30/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	NA	NA	NA	NA	NA	NA				
Phase 5		156FB-20141124	JB82625-4	11/24/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.1	U	NA	NA	NA	NA	NA	NA				
Phase 5		156FB-20141208-01	JB83557-1	12/8/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	0.89	U	2.6	U	0.75	U	1.8	U	0.87	U
Phase 5		156FB-20141208-02	JB83557-2	12/8/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	0.89	U	2.6	U	0.75	U	1.8	U	0.87	U
Phase 5		156FB-20141219	JB84801	12/19/2014	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	1.5	U	0.89	U	2.6	U	0.75	U	1.8	U	0.87	U
Phase 6		156-FB20150331	JB91264-3	3/31/2015	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	3.1	U	NA	NA	NA	NA	NA	NA				
Phase 6		156-20150622	JB97572-2	6/22/2015	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	3.1	U	NA	NA	NA	NA	NA	NA				
Phase 6		156-FB20150813	JC1473-1	8/12/2015	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	3.1	U	NA	NA	NA	NA	NA	NA				
Phase 6		156-FB20151203	JC9766-4	12/3/2015	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	10	U	NA	NA	NA	NA	NA	NA				
Phase 6		156-FB20151203	JC9766-4A	12/3/2015	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	NA	U	10	U	NA	NA	NA	NA				
Phase 7		FB-20160330	JC17265-2	3/30/2016	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	3.1	U	NA	NA	NA	NA	NA	NA				
Phase 7		156-FB-20160411	JC18036-7	4/11/2016	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	3.9	U	NA	NA	NA	NA	NA	NA				
Phase 7		156-FB-20160411	JC18036-7A	4/11/2016	N/A	N/A	N/A	N/A	N/A	WQ	FB	NA	NA	µg/l	NA	U	0.81	U	3.3	U	0.76	U	1.9	U	0.66	U

Notes:

- <sup>1</sup> The elevation of the top of the concrete floor slab is 5.65 ft NAVD88, based on the Form B for monitoring well MW-10, located in the boiler room basement.
- <sup>2</sup> Above ground heights of samples collected from the IRM column are relative to the boiler room interior floor slab.
- <sup>3</sup> The 390 mg/kg RDCSRS for vanadium is a site-specific value.
- <sup>4</sup> The 50<sup>th</sup> percentile groundwater elevation from monitoring well MW-10 (located in the boiler room basement), calculated as 2.52 ft NAVD88, using measurements recorded between May 10, 2016 and December 21, 2017, was used to evaluate the impact to groundwater pathway for antimony, nickel, and thallium.
- <sup>5</sup> Exceedances of the RDCSRS or CrSCC are bolded.
- <sup>6</sup> Exceedances of the DIGWSSL are italicized.
- <sup>7</sup> Exceedances of the GWQS are underlined.

µg/L – Micrograms per liter  
bgs = below ground surface  
CAS # - Chemical Abstract Service Number  
CCPW Metals – Chromate Chemical Production Waste (CCPW) Metals include chromium, antimony, nickel, thallium and vanadium  
CrSCC - Chromium Soil Cleanup Criteria  
DIGWSSL - Default Impact to Groundwater Soil Screening Level  
ft = feet  
GWQS - Ground Water Quality Standard  
Matrix: CO = concrete; SO = soil; GW = groundwater; WQ = water quality; P - precipitate; WW - boiler water  
mg/kg = milligrams per kilogram  
N/A = not applicable  
NAVD88 = North American Vertical Datum of 1988  
NJDEP = New Jersey Department of Environmental Protection  
NRDCSRS = Non-Residential Direct Contact Soil Remediation Standard  
RDCSRS = Residential Direct Contact Soil Remediation Standard  
Sample Types: N = normal; FD = field duplicate  
Qualifiers:  
J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.  
R - The result was rejected due to deficiencies.  
RA - The result was rejected due to deficiencies but is considered usable for decision making purposes.  
U - The analyte was not detected above the sample reporting limit shown.  
UJ - The analyte was not detected above the sample reporting limit shown, and the reporting limit was approximate.