

**Table 5-2
CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey**

Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	ANTIMONY 7440-36-0		CHROMIUM 7440-47-3		NICKEL 7440-02-0		THALLIUM 7440-28-0		VANADIUM 7440-62-2		Specific Notes
													Units RDCSRS NRDCSRS	mg/kg 31 N/A 450	mg/kg 120000 N/A N/A	mg/kg 1600 N/A 23000	mg/kg N/A N/A	mg/kg N/A N/A	mg/kg N/A 390 1100				
R40A	133-B5	11.1	PPG-133-B5D_8.5-9.0_792643	8.5 - 9.0 ft	2.6	2.1	792643	A757	12/12/2006	remaining	N	Y	< 1.1	UJ	33.1		11.6		< 1.1	U	21.7	J	
R40A	133-B5	11.1	PPG-133-B5E_12.0-12.5_792644	12.0 - 12.5 ft	-0.9	-1.4	792644	A757	12/12/2006	remaining	N	Y	< 1.1	UJ	18.9		11.6		< 1.1	U	29		
R40A	133-B5	11.1	PPG-133-B5F_13.9-14.4_792645	13.9 - 14.4 ft	-2.8	-3.3	792645	A757	12/12/2006	remaining	N	Y	< 2.7	UJ	45.7		23.4		< 1.3	U	64.4	J	
R40A	133-B5	11.1	PPG-133-B5G_18.0-18.5_792646	18.0 - 18.5 ft	-6.9	-7.4	792646	A757	12/12/2006	remaining	N	Y	< 1.7	UJ	32.8		26.9		< 1.6	U	36.2	J	
R40A	133-B5	11.1	PPG-133-B5H_22.5-23.0_792647	22.5 - 23.0 ft	-11.4	-11.9	792647	A757	12/12/2006	remaining	N	Y	< 1.4	UJ	11.7		12.8		< 1.1	U	12.1	J	
S34A	P4-HAL-S34A	12.8	P4-HAL-S34A-17.5-18.0	17.5 - 18.0 ft	-4.7	-5.2	JB77632-8A	JB77632A	09/25/2014	remaining	N	Y	0.58	J	262		12.0		< 0.45	U	22.4	J	
S34A	P4-HAL-S34A	12.8	P4-HAL-S34A-19.5-20.0	19.5 - 20.0 ft	-6.7	-7.2	JB77632-9A	JB77632A	09/25/2014	remaining	N	Y	4.6	J	2840		11.9		0.96	J	26.1	J	
S34A	P4-HAL-S34A	12.8	P4-HAL-S34A-20.0-20.5	20.0 - 20.5 ft	-7.2	-7.7	JB77632-10A	JB77632A	09/25/2014	remaining	N	Y	< 0.65	UJ	45.9	J	23.0	J	< 0.99	UJ	67.0	J	
S35A	137-B13	13.0	137B13J_17.5-17.9_801485	17.5 - 17.9 ft	-4.5	-4.9	801485	C140	01/22/2007	remaining	N	Y	< 2	UJ	241		21.2		< 1.6	U	43.8		
S35A	137-B13	13.0	137B13K_19.1-19.4_801486	19.1 - 19.4 ft	-6.1	-6.4	801486	C140	01/22/2007	remaining	N	Y	< 2.4	UJ	268		10.7		< 2	U	27.7		
S35A	137-B13	13.0	137B13L_21.9-22.4_801487	21.9 - 22.4 ft	-8.9	-9.4	801487	C140	01/22/2007	remaining	N	Y	< 3.8	UJ	95		13.6		< 1.6	U	27.8		
S35A	137-B13	13.0	137B13M_23.2-23.6_801488	23.2 - 23.6 ft	-10.2	-10.6	801488	C140	01/22/2007	remaining	N	Y	< 1.5	UJ	35.6		17.3		< 1.3	U	49.7		
S35A	137-B13	13.0	137B13N_25.6-26.0_801489	25.6 - 26.0 ft	-12.6	-13.0	801489	C140	01/22/2007	remaining	N	Y	< 1.2	UJ	11.1		11.7		< 1.2	U	17.9		
S35A	137-B13	13.0	137B13O_28.7-28.9_801490	28.7 - 28.9 ft	-15.7	-15.9	801490	C140	01/22/2007	remaining	N	Y	< 1.1	UJ	6.8		4.7		< 1.1	U	11.7		
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-17.0-17.5	17.0 - 17.5 ft	-4.7	-5.2	JB78082-10A	JB78082A	10/01/2014	remaining	N	Y	0.49	J	18.5		12.1		< 0.50	U	27.2		
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-17.5-18.0	17.5 - 18.0 ft	-5.2	-5.7	JB78082-12R	JB78082R	10/01/2014	remaining	N	Y	< 0.33	U	21.3		14.1		0.66	J	34.2		
T33A	P4-HAL-T33A	12.3	P4-HAL-T33A-18.0-18.5	18.0 - 18.5 ft	-5.7	-6.2	JB78082-11A	JB78082A	10/01/2014	remaining	N	Y	< 0.28	UJ	20.1	J	11.3	J	< 0.43	UJ	27.6	J	
T34A	133-B3	12.0	PPG-133-B3E_16.0-16.5	16.0 - 16.5 ft	-4.0	-4.5	792174	A686	12/11/2006	remaining	N	Y	< 1.2	UJ	52.6	J	10.6		< 1.2	U	22.8	J	
T34A	133-B3	12.0	PPG-133-B3F_17.0-17.5	17.0 - 17.5 ft	-5.0	-5.5	792175	A686	12/11/2006	remaining	N	Y	< 1.7	UJ	89.4	J	17.4		< 1.6	U	19.7	J	
T34A	133-B3	12.0	PPG-133-B3G_24.0-24.5	24.0 - 24.5 ft	-12.0	-12.5	792176	A686	12/11/2006	remaining	N	Y	< 1.6	UJ	23.2	J	11		< 1.3	U	13.5	J	
T34A	133-HSS-T34A-PB	12.1	133-HSS-T34A-PB-14.4-14.9	14.4 - 14.9 ft	-2.3	-2.8	JB99963-2	JB99963A	07/20/2015	remaining	N	Y	< 0.43	U	44.8		20.7		< 0.27	U	48.0		
T35A	133-P3C-MW102I	9.2	133-P3C-MW102I-35.5-36.0	35.5 - 36.0 ft	-26.3	-26.8	JC13952-1A	JC13952A	01/25/2016	remaining	N	Y			6.9								
T35A	133-P3C-MW102I	9.2	133-P3C-MW102I-40.0-40.5	40.0 - 40.5 ft	-30.8	-31.3	JC13952-2A	JC13952A	01/25/2016	remaining	N	Y			7.1								
T35A	133-P3C-MW102I	9.2	133-P3C-MW102I-45.5-46.0	45.5 - 46.0 ft	-36.3	-36.8	JC13952-3A	JC13952A	01/25/2016	remaining	N	Y			6.2								
T37A	133-B4	11.5	PPG-133-B4F_12.5-13.0_792635	12.5 - 13.0 ft	-1.0	-1.5	792635	A757	12/12/2006	remaining	N	Y	< 1.4	UJ	21		8.6		< 1.3	U	18.2	J	
T37A	133-B4	11.5	PPG-133-B4FD_12.5-13.0_792636	12.5 - 13.0 ft	-1.0	-1.5	792636	A757	12/12/2006	remaining	FD	Y	< 1.3	UJ	16.5		7.8		< 1.3	U	16.5	J	
T37A	133-B4	11.5	PPG-133-B4G_14.3-14.8_792637	14.3 - 14.8 ft	-2.8	-3.3	792637	A757	12/12/2006	remaining	N	Y	< 1.7	UJ	40.5		19.8		< 1.6	U	37.8	J	
T37A	133-B4	11.5	PPG-133-B4H_18.3-18.8_792638	18.3 - 18.8 ft	-6.8	-7.3	792638	A757	12/12/2006	remaining	N	Y	< 2.5	UJ	28		26.5		< 1.2	U	36.7	J	
T37A	133-B4	11.5	PPG-133-B4I_21.8-22.3_792639	21.8 - 22.3 ft	-10.3	-10.8	792639	A757	12/12/2006	remaining	N	Y	< 1.4	UJ	13.7		11		< 1.1	U	13.9	J	
T37A	133-P3C-T37A	11.6	133-P3C-T37A-10.0-10.5	10.0 - 10.5 ft	1.6	1.1	JB40576-2A	JB40576A	06/25/2013	remaining	N	Y	0.77	J	37.3		19.5		1.0	J	13.1		
T37A	133-P3C-T37A	11.6	133-P3C-T37A-12.0-12.5	12.0 - 12.5 ft	-0.4	-0.9	JB40576-3A	JB40576A	06/25/2013	remaining	N	Y	0.36	J	22.8		9.8		< 0.38	U	15.5		
T37A	133-P3C-T37A	11.6	133-P3C-T37A-13.7-14.2	13.7 - 14.2 ft	-2.1	-2.6	JB40576-4A	JB40576A	06/25/2013	remaining	N	Y	0.87	J	490		17.8		< 0.48	U	25.2		
T37A	133-P3C-T37A	11.6	133-P3C-T37A-14.2-14.7	14.2 - 14.7 ft	-2.6	-3.1	JB40576-5A	JB40576A	06/25/2013	remaining	N	Y	0.79	J	34.9		22.6		< 0.45	U	31.8		
U30A	133-U30A-SW-E2	12.5	133-U30A-SW-E-15.2-15.7	15.2 - 15.7 ft	-2.7	-3.2	JC2160-2A	JC2160A	08/21/2015	remaining	N	Y	< 4.2	UJ	9140	J	33.1		< 2.6	U	79.2		
U34A	133-P3C-U34A	12.6	133-P3C-U34A-16.5-17.0	16.5 - 17.0 ft	-3.9	-4.4	JB40712-3A	JB40712A	06/26/2013	remaining	N	Y	24.3	J	7310	J	13.6	J	< 3.6	U	34.4	J	
U34A	133-P3C-U34A	12.6	133-P3C-U34A-17.0-17.5	17.0 - 17.5 ft	-4.4	-4.9	JB40712-2A	JB40712A	06/26/2013	remaining	N	Y	7.9	J	2000	J	11.2		< 0.36	U	28.0		
U34A	133-P3C-U34A	12.6	133-P3C-U34A-17.5-18.0	17.5 - 18.0 ft	-4.9	-5.4	JB40712-1A	JB40712A	06/26/2013	remaining	N	Y	0.91	J	219	J	14.5	J	3.0	J	38.8	J	
V26A	P4-HAL-V26AR	12.1	P4-HAL-V26A-15.5-16.0R	15.5 - 16.0 ft	-3.4	-3.9	JB79531-4A	JB79531A	10/17/2014	remaining	N	Y	< 0.28	UJ	48.6	J	5.5	J	< 0.43	UJ	16.2	J	
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-13.0-13.5	13.0 - 13.5 ft	-0.5	-1.0	JB78753-5A	JB78753A	10/08/2014	remaining	N	Y	< 0.28	UJ	725	J	15.0		< 0.42	U	31.9		
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-15.0-15.5	15.0 - 15.5 ft	-2.5	-3.0	JB78753-6A	JB78753A	10/08/2014	remaining	N	Y	0.37	J	1390	J	23.3		< 0.42	U	34.0		
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-17.0-17.5	17.0 - 17.5 ft	-4.5	-5.0	JB78753-7A	JB78753A	10/08/2014	remaining	N	Y	1.2	J	2050	J	34.0		< 0.40	U	39.8		
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-17.0-17.5X	17.0 - 17.5 ft	-4.5	-5.0	JB78753-9A	JB78753A	10/08/2014	remaining	FD	Y	< 0.27	UJ	558	J	29.4		< 0.42	U	34.7		
V30A	P4-HAL-V30A	12.5	P4-HAL-V30A-17.5-18.0	17.5 - 18.0 ft	-5.0	-5.5	JB78753-8A	JB78753A	10/08/2014	remaining	N	Y	0.58	J	1940	J	48.8		< 0.42	U	39.2		
V32A	133-B2	12.4	PPG-133-B2F_16.3-17.3	16.3 - 17.3 ft	-3.9	-4.9	792168	A686	12/11/2006	remaining	N	Y	< 2	UJ	59.5	J	25.2		< 1.9	U	37.2		
V32A	133-B2	12.4	PPG-133-B2G_20.0-20.5	20.0 - 20.5 ft	-7.6	-8.1	792169	A686	12/11/2006	remaining	N	Y	< 3.1	UJ	689	J	16.3		< 1.5	U	33.9	J	
V32A	133-B2	12.4	PPG-133-B2H_22.0-22.5	22.0 - 22.5 ft	-9.6	-10.1	792170	A686	12/11/2006	remaining	N	Y	< 1.2	UJ	15.4	J	11.2		< 1.2	U	11.1	J	
V32A	133-B2	12.4	PPG-133-B2I_23.2-23.7	23.2 - 23.7 ft	-10.8	-11.3	792171	A686	12/11/2006	remaining	N	Y	< 1.5	UJ	24.6	J	8.7		< 1.2	U	18.9	J	
W24A	133-W24A-PB	12.0	133-W24A-PB-16.5-17.0	16.5 - 17.0 ft	-4.5	-5.0	JC6269-8A	JC6269A	10/14/2015	remaining	N	Y	< 0.54	UJ	34.3		27.7		0.59	J	40.6		
W24A	133-W24A-PB	12.0	133-W24A-PB-16.5-17.0X	16.5 - 17.0 ft	-4.5	-5.0	JC6269-9A	JC6269A	10/14/2015	remaining	FD	Y	< 0.56	UJ	32.8		27.0		0.65	J	40.1		
W25A	133-W25A-PB	12.0	133-W25A-PB-15.9-16.4	15.9 - 16.4 ft	-3.9	-4.4	JC2417-1	JC2417	08/26/2015	remaining	N	Y	< 0.76	UJ	33.1	J	27.4	J	< 0.46	UJ	46.2	J	
W25A	PSEG-SB43	13.3	PSEG-SB43F_18-18.5	18.0 - 18.5 ft	-4.7	-5.2	785971	Z760	11/17/2006	remaining	N	Y	< 2	UJ	103		25.8		< 1.6	U	36.1		
W25A	PSEG-SB43	13.3	PSEG-SB43G_23.5-24	23.5 - 24.0 ft	-10.2	-10.7	785972	Z760	11/17/2006	remaining	N	Y	< 1.5	UJ	77.4		12.2		< 1.2	U	25.7		
W25A	PSEG-SB43	13.3	PSEG-SB43H_24-24.5	24.0 - 24.5 ft	-10.7	-11.2	785973	Z760	11/17/2006	remaining	N	Y	< 1.4	UJ	37.8		10.5		&				

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Grid ID (G1)	Location ID (G2)	Location Elevation (ft NAVD88) (G3, G4, G5)	Sample ID (G6)	Depth Interval (ft bgs) (G7)	Sample Start Elevation (ft NAVD88) (G4, G8, G9)	Sample End Elevation (ft NAVD88) (G4, G10)	Lab ID (G11)	Lab SDG (G11)	Date Collected (G12)	Sample Status (G13, G14)	Sample Type (G15)	Validated (Y/N) (G16)	ANTIMONY 7440-36-0		CHROMIUM 7440-47-3		NICKEL 7440-02-0		THALLIUM 7440-28-0		VANADIUM 7440-62-2		Specific Notes
													Units	RDCSRS	Units	RDCSRS	Units	RDCSRS	Units	RDCSRS	Units	RDCSRS	
													mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
													31	120000	1600	N/A	N/A	N/A	390	N/A			
													N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
													450			23000			1100				
Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G21)	Qualifier (G19, G20)	Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G18)	Qualifier (G19, G20)								
W26A	P4-HAL-W26A	12.1	P4-HAL-W26A-15.5-16.0	15.5 - 16.0 ft	-3.4	-3.9	JB77366-18A	JB77366A	09/23/2014	remaining	N	Y	1.1	JB	51.0	J	22.8	J	< 0.40	U	39.2	J	
W27A	133-B1	11.8	133-B1H_16-16.5	16.0 - 16.5 ft	-4.2	-4.7	791766	A623	12/08/2006	remaining	N	Y	< 1.8	U	119		23.5		< 1.7	U	37.7	J	
W27A	133-B1	11.8	133_B1I_18-18.5	18.0 - 18.5 ft	-6.2	-6.7	791767	A623	12/08/2006	remaining	N	Y	< 1.7	U	32.7		27		< 1.7	U	38.1	J	
W27A	133-B1	11.8	133-B1J_20-20.5	20.0 - 20.5 ft	-8.2	-8.7	791768	A623	12/08/2006	remaining	N	Y	< 1.7	U	120		27.3		< 1.7	U	35	J	
W27A	133-B1	11.8	133-B1K_22-22.5	22.0 - 22.5 ft	-10.2	-10.7	791769	A623	12/08/2006	remaining	N	Y	< 1.2	U	15.5		11.2		< 1.2	U	15.7	J	
W27A	133-P3C-MW101I	9.4	133-P3C-MW101I-35.0-35.5	35.0 - 35.5 ft	-25.6	-26.1	JC13952-4A	JC13952A	01/26/2016	remaining	N	Y			5.4								
W27A	133-P3C-MW101I	9.4	133-P3C-MW101I-40.0-40.5	40.0 - 40.5 ft	-30.6	-31.1	JC13952-5A	JC13952A	01/26/2016	remaining	N	Y			5.3								
W27A	133-P3C-MW101I	9.4	133-P3C-MW101I-44.0-44.5	44.0 - 44.5 ft	-34.6	-35.1	JC13952-6A	JC13952A	01/26/2016	remaining	N	Y			6.2								
X20A	133-X20A-PB	11.7	133-X20A-PB-17.0-17.5	17.0 - 17.5 ft	-5.3	-5.8	JC4999-3	JC4999	09/29/2015	remaining	N	Y	< 0.86	UJ	22.0	J	14.5	J	< 0.53	UJ	32.7	J	
X21A	133-X21A-PB	11.3	133-X21A-PB-16.7-17.2	16.7 - 17.2 ft	-5.4	-5.9	JC4999-1	JC4999	09/29/2015	remaining	N	Y	2.6	J	23.6	J	14.1	J	< 0.59	UJ	31.8	J	
X22A	133-X22A-PB	11.3	133-X22A-PB-14.0-14.5	15.9 - 16.4 ft	-4.6	-5.1	JC5740A	JC5740-1A	10/8/2015	remaining	N	Y	< 0.62	UJ	34.6	J	29.5	J	< 0.38	UJ	50.5	J	S3
X24A	133-X24A-PB2	11.9	133-X24A-PB-15.2-15.7	15.2 - 15.7 ft	-3.3	-3.8	JC6344-1	JC6344	10/15/2015	remaining	N	Y	< 0.62	U	34.9		28.1		< 0.38	U	46.9		
X25A	133-HSS-X25A-PB	11.5	133-HSS-X25A-PB-14.1-14.6	14.1 - 14.6 ft	-2.6	-3.1	JC6734-1	JC6734	10/21/2015	remaining	N	Y	< 0.52	U	14.2		8.5		0.44	J	18.1		
X27A	PSEG-SB42	12.0	PSEG-SB42B_15-15.5	15.0 - 15.5 ft	-3.0	-3.5	785963	Z760	11/17/2006	remaining	N	Y	< 3.2	UJ	662		25.9		< 1.3	U	35.1		
X27A	PSEG-SB42	12.0	NJD981084668-11/17/2006-SB42_17	17.0 - 17.5 ft	-5.0	-5.5	786008	Z761	11/17/2006	remaining	N	N	< 2.2	U	303		26.5		< 1.8	U	35.2		S1
X27A	PSEG-SB42	12.0	PSEG-SB42C_18-19.5	18.0 - 19.5 ft	-6.0	-7.5	785964	Z760	11/17/2006	remaining	N	Y	< 2.1	UJ	218		28.7		< 1.7	U	38.1		
X27A	PSEG-SB42	12.0	PSEG-SB42D_23-23.5	23.0 - 23.5 ft	-11.0	-11.5	785965	Z760	11/17/2006	remaining	N	Y	< 2	UJ	69.2		23.5		< 1.6	U	33.2		
X27A	PSEG-SB42	12.0	NJD981084668-11/17/2006-SB42_23	23.5 - 24.0 ft	-11.5	-12.0	785980	Z761	11/17/2006	remaining	N	N	< 1.5	U	88.5		18.5		< 1.2	U	32.8		S1
Y22A	114-MW19C	11.0	PPG-114-MW19CA(50.0-51.0)J45378-1	50.0 - 51.0 ft	-39.0	-40.0	J45378-1	J45378	11/02/2006	remaining	N	Y	< 2.6	UJ	24.2	J	< 5.2	U	< 1.3	U	7.8		
Y22A	114-MW19C	11.0	PPG-114-MW19CAD(50.0-51.0)J45378-2	50.0 - 51.0 ft	-39.0	-40.0	J45378-2	J45378	11/02/2006	remaining	FD	Y	< 2.8	UJ	159	J	7.1		< 1.4	U	11.0		
Y22A	114-MW19C	11.0	PPG-114-MW19CB(54.0-55.0)J45378-3	54.0 - 55.0 ft	-43.0	-44.0	J45378-3	J45378	11/02/2006	remaining	N	Y	< 2.5	UJ	6.0	J	< 5.0	U	< 1.2	U	7.3		
Y22A	114-MW19C	11.0	PPG-114-MW19CC(58.0-58.5)J45378-4	58.0 - 58.5 ft	-47.0	-47.5	J45378-4	J45378	11/02/2006	remaining	N	Y	< 2.5	UJ	5.4	J	< 4.9	U	< 1.2	U	< 6.2	U	
Y22A	114-MW19C	11.0	PPG-114-MW19CD(62.0-62.5)J45378-5	62.0 - 62.5 ft	-51.0	-51.5	J45378-5	J45378	11/02/2006	remaining	N	Y	< 2.5	UJ	8.1	J	< 4.9	U	< 1.2	U	7.1		
Y22A	114-MW19C	11.0	PPG-114-MW19CE(64.0-64.5)J45378-6	64.0 - 64.5 ft	-53.0	-53.5	J45378-6	J45378	11/02/2006	remaining	N	Y	< 2.6	UJ	21.8	J	27.8		< 1.3	U	23.8		
Y22A	114-MW19C	11.0	PPG-114-MW19CF(68.0-68.5)J45378-7	68.0 - 68.5 ft	-57.0	-57.5	J45378-7	J45378	11/02/2006	remaining	N	Y	< 2.6	UJ	24.1	J	27.4		< 1.3	U	26.4		
Y22A	114-MW19C	11.0	PPG-114-MW19CG(72.0-72.5)J45378-8	72.0 - 72.5 ft	-61.0	-61.5	J45378-8	J45378	11/02/2006	remaining	N	Y	< 2.6	UJ	25.1	J	27.3		< 1.3	U	29.9		
Y22A	114-MW19C	11.0	PPG-114-MW19CH(77.0-77.5)J45378-9	77.0 - 77.5 ft	-66.0	-66.5	J45378-9	J45378	11/02/2006	remaining	N	Y	< 2.5	UJ	17.7	J	18.0		< 1.3	U	19.4		
Y22A	114-MW19C	11.0	PPG-114-MW19CI(80.0-80.5)J45378-10	80.0 - 80.5 ft	-69.0	-69.5	J45378-10	J45378	11/02/2006	remaining	N	Y	< 2.6	UJ	26.1	J	25.8		< 1.3	U	31.2		
Y22A	114-MW19C	11.0	PPG-114-MW19CJ(84.0-84.5)J45378-11	84.0 - 84.5 ft	-73.0	-73.5	J45378-11	J45378	11/02/2006	remaining	N	Y	< 2.5	UJ	15.1	J	12.3		< 1.3	U	22.7		
Y22A	114-MW19C	11.0	PPG-114-MW19CK(87.5-88.0)J45378-13	87.5 - 88.0 ft	-76.5	-77.0	J45378-13	J45378	11/02/2006	remaining	N	Y	< 2.4	UJ	17.9	J	15.7		< 1.2	U	22.1		
Y22A	114-MW19C	11.0	PPG-114-MW19CL(93.0-93.5)J45378-14	93.0 - 93.5 ft	-82.0	-82.5	J45378-14	J45378	11/02/2006	remaining	N	Y	< 2.3	UJ	12.5	J	9.1		< 1.2	U	17.9		
Y22A	114-MW19C	11.0	PPG-114-MW19CM(96.0-96.5)J45378-15	96.0 - 96.5 ft	-85.0	-85.5	J45378-15	J45378	11/02/2006	remaining	N	Y	< 2.3	UJ	18.8	J	13.7		< 1.2	U	25.5		
Y22A	114-MW19C	11.0	PPG-114-MW19CN(100.0-101.0)J45462-1	100.0 - 101.0 ft	-89.0	-90.0	J45462-1	J45462	11/03/2006	remaining	N	Y	< 2.1	UJ	16.8	J	13.8		< 1.1	U	20.9		
Y23A	133-Y23A-PB	11.6	133-Y23A-PB-14.3-14.8	14.3 - 14.8 ft	-2.7	-3.2	JC5740-2A	JC5740A	10/08/2015	remaining	N	Y	< 0.97	UJ	22.4	J	12.5	J	< 0.60	UJ	34.1	J	
Y24A	133-B24	11.6	PPG-133-B24H_17.5-18.0_794518	17.5 - 18.0 ft	-5.9	-6.4	794518	B013	12/18/2006	remaining	N	Y	< 1.8	UJ	34.2	J	25.8		< 1.7	U	40.4		
Y24A	133-B24	11.6	PPG-133-B24I_21.7-22.2_794519	21.7 - 22.2 ft	-10.1	-10.6	794519	B013	12/18/2006	remaining	N	Y	< 1.1	UJ	15.2	J	10.9		< 1.1	U	14.2		
Y24A	PSEG-SB41	11.8	NJD981084668-11/17/2006-SB41_17	17.0 - 17.5 ft	-5.2	-5.7	785977	Z761	11/17/2006	remaining	N	N	< 2.2	U	30		22.8		< 1.8	U	39.5		S1
Y24A	PSEG-SB41	11.8	NJD981084668-11/17/2006-SB41_23	23.5 - 24.0 ft	-11.7	-12.2	785978	Z761	11/17/2006	remaining	N	N	< 1.5	U	20.6		12.3		< 1.2	U	16.1		S1

Table 5-2
CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey

ABBREVIATIONS:

bgs - below ground surface
CAS RN - Chemical Abstracts Service Registry Number
CCPW - Chromate Chemical Production Waste
Cr - chromium
Cr⁺³ - trivalent chromium
El. - elevation
FD - field duplicate sample type
ft - feet
GPS - global positioning system
mg/kg - milligrams per kilogram
MM - meadow mat
N - normal sample type
NAVD88 - North American Vertical Datum of 1988
NJDEP - New Jersey Department of Environmental Protection
NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard
N/A - not applicable
PDI - Pre-Design Investigation
RDCSRS - Residential Direct Contact Soil Remediation Standard
RDCSRS-GAG - Residential Direct Contact Soil Remediation Standard - Garfield Avenue Group (alternative remediation standard approved by the New Jersey Department of Environmental Protection on December 28, 2016)
SCC - Soil Cleanup Criteria
SDG - sample delivery group
SRS - Soil Remediation Standard
TEE - terminal excavation elevation
UND - undisturbed native deposit

QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.
JB - The analyte concentration is greater than three times, but less than or equal to ten times the concentration in the associated method/prep blank. The presence of that analyte in the sample is considered "real". The concentration is quantitatively qualified due to method blank contamination.
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.

GENERAL NOTES:

G1. "Grid ID" refers to an area, typically 30 ft by 30 ft, identified as Grid Row Q through Z (extending west to east) and Grid Column 20A through 41A (extending from north to south).
G2. "Location ID" refers to the location name where samples were collected.
G3. "Location Elevation" refers to the pre-remediation surface elevation for samples collected from the pit bottom, and the surface elevation of the sample location when the sample was collected via boring or test pit.
G4. Elevation vertical datum is NAVD88, in U.S. survey ft.
G5. For some borings, the Location Elevations presented in this table were revised compared to the Location Elevations used in the proposed TEE Technical Memoranda. The revisions were based on a review of available survey data for individual locations, site-wide topographical surveys, and field notes to provide the most accurate and representative ground surface elevations. In addition, ground surface elevations for borings advanced prior to 2011 were reviewed and, if necessary, converted from the site-specific vertical datum used prior to 2011 into NAVD88.
G6. "Sample ID" refers to the name of a sample collected at a given location and is unique to the depth of the sample collected. The depth listed in the Sample ID may not necessarily correspond to the actual sample depth interval due to corrections made as a result of post-field work review of surveyed surface elevations and/or boring logs. In some cases, the "Sample ID" in the table is a variant of the sample ID in the laboratory report and/or data validation report. In these cases, the "Lab ID" associates the sample results to the laboratory report and/or data validation report.
G7. "Depth Interval" is based on the "Location Elevation."
G8. "Sample Start Elevation" refers to the start of the sample interval. There may be up to 0.1 ft variation between the listed Sample Start Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G9. In some grids, there may be up to 0.1 ft variation between the sample start elevation of the pit bottom or sidewall sample and the post-excavation elevation survey point due to rounding of the numbers.
G10. "Sample End Elevation" refers to the end of the sample interval. There may be up to 0.1 ft variation between the listed Sample End Elevation and the elevation calculated using the Location Elevation and Depth Interval due to rounding of the numbers.
G11. "Lab ID" refers to the identification number assigned to the sample by the analytical laboratory performing the sample analysis. "Lab SDG" refers to the delivery group number assigned to the sample by the analytical laboratory.
G12. "Date Collected" refers to the date the soil sample was collected.
G13. "Sample Status" indicates whether a sample is remaining or removed:
- "Remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location; and
- "Removed" indicates the sample was removed during excavation.
G14. The post-excavation survey points and 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figures 5-2A, 5-2B, and 5-2C.
G15. "Sample Type" indicates whether the sample type is normal (N) or a field duplicate (FD).
G16. "Y" indicates that a sample underwent data validation and "N" indicates that data validation was not conducted.
G17. "Result" refers to the analytical result which is reported in mg/kg. A blank entry indicates that the sample was not tested for that analyte.
G18. Bold text indicates a result that exceeds the RDCSRS or the RDCSRS-GAG. Bold and italicized text indicates a result that exceeds the NRDCSRS. Non-bold and non-italicized text indicates the result does not exceed the most stringent SRS.
G19. "Qualifier" refers to the data qualifier assigned by the data validation team reviewing the data from the laboratory for validated data. For unvalidated data, it refers to the qualifier assigned by the laboratory.

Table 5-2
CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards
Halladay Street South, Garfield Avenue Group
PPG, Jersey City, New Jersey

G20. Non-detect results are shown on this table using the Method Detection Limit, if available; otherwise they are shown at the Reporting Limit.

G21. There is currently no NJDEP SRS and no NJDEP SCC for total Cr. Therefore, total Cr results are compared to the interim NJDEP Residential SCC for Cr⁺³ of 120,000 mg/kg as the cleanup criteria for soil at the Garfield Avenue Group Sites. There is no non-residential SCC for Cr⁺³. Bold values indicate a result that exceeds the interim NJDEP Residential SCC.

SPECIFIC NOTES:

S1. This sample was collected by another party. A data validation memorandum has not been identified.

S2. In Grid W26A, a portion of the PDI sample P4-HAL-W26A-15.0-15.5 and its field duplicate P4-HAL-W26A-15.0-15.5X appear to be remaining in place based on the sample elevation (El. -2.9 to -3.4 ft NAVD88) as compared to the as-built TEE (shown on Figure 5-2C). However, based on field observations, these samples were actually removed during excavation. These samples were collected from fill above MM. The excavation field notes indicate that the fill material was removed, MM was not encountered, and this grid was excavated to visually clean UND. In addition, a pit bottom sample 133-W26A-PB-14.5-15.0 was collected at El. -2.4 to -2.9 ft NAVD88.

S3. In Grid X22A, the depth interval included in the Sample ID 133-X22A-PB-14.0-14.5 does not correspond to the actual depth interval where the sample was collected. The depth interval in the sample ID was estimated in the field. The actual depth interval was updated following review of the GPS-measured pre-construction location elevation and GPS-measured sample start elevation and is provided in the "Depth Interval" column on this table.