## Table 5-2 CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards Al Smith Moving, Garfield Avenue Group PPG, Jersey City, New Jersey

											RD	Analyte CAS RI Unite RDCSRS CSRS-GAC NRDCSRS	N 744 ts m S G	ANTIMONY 7440-36-0 mg/kg 31 N/A 450		DMIUM D-47-3 g/kg 0000 I/A I/A	744 m 1	CKEL 0-02-0 g/kg 600 N/A 8000	THALLIUM 7440-28-0 mg/kg N/A N/A N/A		VANADIUM 7440-62-2 mg/kg N/A 390 1100		
Grid ID	Location ID	Location Elevation (ft NAVD88)	Sample ID	Depth Interval (ft bgs)	Sample Start Elevation (ft NAVD88)	Sample End Elevation (ft NAVD88)	Lab ID	Lah SDG	Date Collected	Sample Status		Validated (Y/N)	d Result (G17,	Qualifier (G19,	Result (G17,		Result (G17,	Qualifier (G19,		Qualifier (G19,	Result (G17,	Qualifier (G19,	Specific
(G1)	(G2)	(G3, G4, G5)	(G6)	(IT bgs) (G7)	(G4, G8, G9)	(G4, G10)	(G11)	(G11)	(G12)	(G13, G14)	Type (G15)	(G16)	(G17, G18)	• •	(G17, G21)	•	(G17, G18)	(G19, G20)	•	(G19, G20)	(G17, G18)	(G19, G20)	Notes
T47A		14.0	ASM-T47AR2-9.0-9.5		<u>(0 :, 00, 00)</u> 5.0	4.5	JC28400-9A	JC28400A	09/26/2016	remaining	N	Y	0.8	,	9.9	,	9.6		< 0.44	,	14.2		
T47A	ASM-T47AR2	14.0	ASM-T47AR2-11.0-11.5	11.0 - 11.5 ft	3.0	2.5	JC28400-3A	JC28400A	09/26/2016	remaining	N	Y	0.5	1 J	6.9	)	13.6	6	< 0.62		17.3		
T47A	ASM-T47AR2	14.0	ASM-T47AR2-13.0-13.5	13.0 - 13.5 ft	1.0	0.5	JC28400-4A	JC28400A	09/26/2016	remaining	Ν	Y	0.4	7 J	14.2	2	9.3	3	< 0.45	U	18.9		
T47A	ASM-T47AR2	14.0	ASM-T47AR2-13.5-14.0	13.5 - 14.0 ft	0.5	0.0	JC28400-5A	JC28400A	09/26/2016	remaining	Ν	Y	1.	0 J	29.0	J	18.8	3 J	< 1.2	UJ	42.6	J	
T48A		10.4	ASM-T48A-PB-7.4-7.9		3.0	2.5	JC53600-9A	JC53600A	10/20/2017	remaining	Ν	Y		2 J-	23.5		14.9		< 0.56		26.5		'
T48A		10.5	ASM-T48AR2-12.0-12.5	12.0 - 12.5 ft		-2.0		JC31135A	11/04/2016	remaining	N	Y	3.		13.6	;	14.(	)	< 0.40		25.7		'
T48A		10.5	ASM-T48AR2-12.5-13.0	12.5 - 13.0 ft		-2.5	JC31135-3A	JC31135A	11/04/2016	· • · · · · · · · · · · · · · · · · · ·	N	Y	0.7		26.3	8	16.2	2	< 0.50		32.2		<b></b> '
T48A		10.5	ASM-T48A-SW-S-5.4-5.9		5.1	4.6 9.5	JC53600-10A	JC53600A	10/20/2017		N	Y V	10.	_	376		25.4	+	< 0.55		42.6	<b> </b>	61
T49A T49A	ASM-T48A-SW-S1 ASM-T48A-SW-S2	10.4 10.4	ASM-T48A-SW-S-1.4-1.9		9.0 7.0	8.5 6.5	JC53600-12A JC53600-11A	JC53600A JC53600A	10/20/2017 10/20/2017	· ornannig	N	ř V	2.	5 J- 6 J	63.2 64.3		22.3 17.8	5	< 0.45 < 0.48		32.9 24.9		S1 S1
T49A T49A		10.4	ASM-T48A-SW-S-3.4-3.9 ASM-T49AR-7.5-8.0		7.0 6.6	6.1	JC53600-11A JC28463-9A	JC53600A JC28463A	09/27/2016	remaining remaining	N	ř V	21.		2620		80.7		< 0.48		24.9 50.0	1	S1 S1
T49A T49A		14.1	ASM-T49AR-7.5-8.0 ASM-T49AR-9.5-10.0		0.0 4.6	6.1 4.1	JC28463-9A JC28463-10A	JC28463A JC28463A	09/27/2016		N	Y	0.5	-	2620		8.2		< 0.40		15.7		S1
T49A		14.1	ASM-T49AR-11.5-12.0	11.5 - 12.0 ft	-	2.1	JC28463-4A	JC28463A	09/27/2016	U U	N	Y	0.3		9.1	-	11.9		0.40		21.0		S1
T49A		14.1	ASM-T49AR-12.5-13.0	12.5 - 13.0 ft		1.1	JC28463-5A	JC28463A	09/27/2016	· • · · · · · · · · · · · · · · · · · ·	N	Y	0.4	-	13.0	-	11.4	-	< 0.40		21.5	-	S1
T49A		14.1	ASM-T49AR-13.0-13.5	13.0 - 13.5 ft		0.6	JC28463-6A	JC28463A	09/27/2016	U U	N	Y	0.5	6 J	22.6		21.3		< 0.40	-	36.2		S1
U46A	135-B4	10.3	PPG-135-B4D_8.5-9.0	8.5 - 9.0 ft	1.8	1.3	794779	B076	12/19/2006	remaining	Ν	Y	< 1.	1 UJ	11.7	,	8.′		< 1.1	U	19.4		1
U46A	135-B4	10.3	PPG-135-B4E_12.5-13.0	12.5 - 13.0 ft	-2.2	-2.7	794780	B076	12/19/2006	remaining	Ν	Y	< 1.	7 UJ	26.4	-	2′		< 1.7	U	26.6		
U46A	135-B4	10.3	PPG-135-B4F_13.9-14.4	13.9 - 14.4 ft	-3.6	-4.1	794781	B076	12/19/2006	remaining	Ν	Y		B UJ	25.3	5	23.5	5	< 1.4	U	35.2		
U46A		10.3	PPG-135-B4FD_13.9-14.4	13.9 - 14.4 ft		-4.1		B076	12/19/2006	remaining	FD	Y	< 3.		31.8	5	30.8		< 1.6		41.9		<u> </u>
U46A		10.3	PPG-135-B4G_18.0-18.5	18.0 - 18.5 ft		-8.2		B076	12/19/2006	remaining	N	Y	< 1.		24		32.1		< 1.8		41		'
U46A		10.3	PPG-135-B4H_22.3-22.8	22.3 - 22.8 ft		-12.5		B076	12/19/2006	<u> </u>	N	Y		3 UJ	12.1		11.8		< 1.3		15.6		<b></b> '
U47A		14.4	ASM-V47A-SW-W-6.9-7.4		7.5	7.0		JC52320A	10/03/2017		N	Y	< 0.4		36.9	-	24.2		< 0.48		27.3		<b></b> '
U47A U47A		14.4 14.4	ASM-V47A-SW-W-8.9-9.4	8.9 - 9.4 ft 10.9 - 11.4 ft	5.5	5.0 3.0	JC52320-15A	JC52320A	10/03/2017	· • · · · · · · · · · · · · · · · · · ·	N	Y	15.	6 J 0 J-	134 30.9		267 69.5		< 13 < 0.64		48.2 22.3		<b></b> '
U47A U48A		14.2	ASM-V47A-SW-W-10.9-11.4 135-B5E_8.7-9.2_816978		5.5 5.5	5.0 5.0		JC53600A E381	10/20/2017 03/27/2007	<u> </u>	N N	T V	4.		424		125		< 0.64		30.2		S1
U48A		14.2	135-B5E_8.7-9.2_816978		5.0	4.3		E381	03/27/2007	<u> </u>	N	Y		7 UJ	424		12.		< 1.3		28.4		S1
U48A		14.2	135-B5G 12.7-14.1 816980	12.7 - 14.1 ft		4.3 0.1		E381	03/27/2007	ů	N	Y	< 1.		22.6	-	12.9		< 1.2		20.4		S1
U48A		14.2	135-B5GD 12.7-14.1 816981	12.7 - 14.1 ft		0.1		E381	03/27/2007		FD	Y	< 1.		34.3		14.7	7	< 1.4	<u>U</u>	32.4		S1
U48A		14.2	135-B5H 14.1-14.7 816982	14.1 - 14.7 ft		-0.5		E381	03/27/2007	3	N	Y		1 UJ	13.1		10.7	7	< 1.1	U	26.7		S1
U48A		14.2	135-B5I_16.7-18.1_816983	16.7 - 18.1 ft		-3.9		E381	03/27/2007		N	Y	< 2.		19.8	J	15.4		< 2		27.5		S1
U48A	ASM-T48A-SW-E1	10.4	ASM-T48A-SW-E-3.4-3.9	3.4 - 3.9 ft	7.0	6.5	JC53600-14A	JC53600A	10/20/2017	remaining	N	Y	4.	7 J-	271	J	26.5	5	< 1.1	U	33.4		S1
U48A		10.4	ASM-T48A-SW-E-5.4-5.9	5.4 - 5.9 ft	5.0	4.5	JC53600-13A	JC53600A	10/20/2017	remaining	Ν	Y	2.		233	J	30.0	)	< 0.54	U	33.8		S1
U49A		14.1	ASM-U49AR-6.0-6.5		8.1	7.6		JC28463A	09/27/2016		Ν	Y		3 J	17.4	-	25.8	_	< 0.80		22.0		
		14.1		8.0 - 8.5 ft		5.6		JC28463A		Ŭ.	N	Y		3 J	93.5		23.3		< 0.40		24.8		<b></b> '
		14.1		8.0 - 8.5 ft		5.6		JC28463A	09/27/2016	ů	FD	Y	10.		629		49.9		< 0.78		38.9		<b></b> '
		14.1		10.0 - 10.5 ft		3.6		JC28463A	09/27/2016	v	N	Y	2.		15.3		20.1		< 0.39		38.6		<b></b> '
		14.1		12.0 - 12.5 ft		1.6		JC28463A	09/27/2016	ů	N	Ϋ́	0.9		31.5		11.9		< 0.47		21.5		<b></b> '
		14.1 14.1	ASM-U49AR-12.5-13.0 ASM-U49AR-13.0-13.5	12.5 - 13.0 ft 13.0 - 13.5 ft	-	1.1 0.6		JC28463A JC28463A	09/27/2016 09/27/2016	<u> </u>	N N	T V	0.8	-	26.6		21.4 28.5		< 0.40 < 0.40		38.2 37.9		<b>├</b> ────'
		13.4		13.0 - 13.5 lt 11.8 - 12.3 ft		0.6 1.1		JC28463A JC52125A	09/27/2016	5	N	Y	< 0.2		31.1 50.3		28.5		< 0.40		23.5		<b>├</b> ────′
		13.4		13.8 - 14.3 ft		-0.9		JC52125A JC52125A	09/29/2017	Ű	N	Y	3.		36.9		20.7		< 0.68		25.2		<b>├</b> ────┘
		14.4		14.0 - 14.5 ft	-	-0.1		JC28463A	09/27/2016	<u> </u>	N	· Y	9.		30.3		20.1		< 2.0		34.5		t'
		14.4		15.0 - 15.5 ft		-1.1	JC28463-24A	JC28463A	09/27/2016	<u> </u>	N	Y	< 0.3		18.9		11.4		< 0.47		27.8		t'
V42A		14.4		15.0 - 15.5 ft		-1.1	JC28463-25A	JC28463A	09/27/2016	U U	FD	Y	< 0.3		16.5		11.1		< 0.46		25.1		1 · · · · ·
V42A	ASM-V42AR2	14.4	ASM-V42AR2-15.5-16.0	15.5 - 16.0 ft	-1.1	-1.6	JC28463-26A	JC28463A	09/27/2016	remaining	Ν	Y	< 0.2	9 UJ	22.8	J	16.6	6 J	< 0.40	UJ	34.8	J	
V44A	135-P3C-V44A	14.2	135-P3C-V44A-13.0-13.5	13.0 - 13.5 ft	1.2	0.7	JB62344-27A	JB62344A	03/19/2014	remaining	Ν	Y	0.4	7 J	15.2		8.7	7 J	< 0.30	U	22.1		
		14.2		13.0 - 13.5 ft		0.7		JB62344A	03/19/2014	remaining	FD	Y	2.		13.2		16.7		< 0.29		18.3		
		14.2		15.0 - 15.5 ft		-1.3		JB62344A	03/19/2014	Ű	Ν	Y	1.		33.3		11.4		4.2		25.0		'
		14.2		17.0 - 17.5 ft		-3.3		JB62344A	03/19/2014	Ű	N	Y	0.6		18.9		12.3		< 0.29		30.1		<b></b> '
V44A	135-P3C-V44A	14.2	135-P3C-V44A-17.5-18.0	17.5 - 18.0 ft	-3.3	-3.8	JB62344-31A	JB62344A	03/19/2014	remaining	Ν	Y	< 0.2	3 UJ	8.8	J	6.1	J	0.58	J	14.3	J	<u> </u>

## Table 5-2 CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards Al Smith Moving, Garfield Avenue Group PPG, Jersey City, New Jersey

											RD	Analyte CAS RN Units RDCSRS CSRS-GAG NRDCSRS	ANTIMONY 7440-36-0 mg/kg 31 N/A 450		CHROMIUM 7440-47-3 mg/kg 120000 N/A N/A		NICKEL 7440-02-0 mg/kg 1600 N/A 23000		mg N/ N/	-28-0	VANADIUM 7440-62-2 mg/kg N/A 390 1100		
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)	(Y/N)	Result (G17, G18)	Qualifier (G19, G20)	Result (G17, G21)	(G19,	Result (G17, G18)	Qualifier (G19, G20)	(G17,	Qualifier (G19, G20)	(G17,	Qualifier (G19, G20)	Specific Notes
V45A	ASM-V45A	14.3	ASM-V45A-11.0-11.5	11.0 - 11.5 ft	3.3	2.8	JC26083-3AR	JC26083AR	08/18/2016	remaining	N	Y	< 0.3	4 UJ	31.6	3 J	12	.8	< 0.46	U	25.1		
V45A	ASM-V45A	14.3	ASM-V45A-13.0-13.5	13.0 - 13.5 ft	1.3	0.8	JC26083-4AR	JC26083AR	08/18/2016	remaining	Ν	Y	0.4	0 J	13.2	2 J	10	.9	< 0.50	U	20.9		
V45A		14.3	ASM-V45A-15.0-15.5	15.0 - 15.5 ft		-1.2	JC26083-5AR	JC26083AR		remaining	Ν	Y	< 0.3		401		25		< 1.1		17.9		'
V45A		14.3	ASM-V45A-17.0-17.5	17.0 - 17.5 ft		-3.2	JC26083-6AR	JC26083AR		remaining	N	Y	< 0.2		35.9	-	26	-	< 0.40		39.3		Ļ'
V45A		14.3	ASM-V45A-17.5-18.0	17.5 - 18.0 ft		-3.7	JC26083-7AR	JC26083AR		remaining	N	Y	< 0.3		17.4	-	12		< 0.49		26.4	-	Ļ'
V45A		14.3	ASM-V45A-18.0-18.5	18.0 - 18.5 ft		-4.2	JC26083-8AR	JC26083AR		remaining	N	Y	< 0.2		36.6	3 J	33	.2 J	< 0.80	UJ	49.9	J	
V46A		14.4	ASM-V47A-SW-N-10.5-11.0	10.5 - 11.0 ft		3.4	JC55606-3R	JC55606R	11/16/2017	remaining	N	Y		7 J-									ļ/
V47A		14.4	ASM-V47A-PB-12.0-12.5	12.0 - 12.5 ft		1.9	JC55606-2	JC55606A	11/16/2017	remaining	N	Y		7 J	0.1 -		10		0.45		04.0		ļ/
V48A		14.4	ASM-V47A-SW-S-6.9-7.4		7.5	7.0	JC52320-10A	JC52320A	10/03/2017	remaining	N	Y		0 J	34.7		42		< 0.45	0	24.0		ļ/
V48A		14.4	ASM-V47A-SW-S-8.9-9.4		5.5	5.0	JC52320-9A	JC52320A	10/03/2017	remaining	N	Y		9 J	43.6	J	36	.5	< 0.48	U	24.9		<b>↓</b> ′
V49A W42A	ASM-W49A-SW-W1 135-B6	14.2 14.2	ASM-W49A-SW-W-5.5-6.0 135-B6E 12.0-12.8 816554	5.5 - 6.0 ft 12.0 - 12.8 ft	8.7	8.2 1.4	JC56973-5 816554	JC56973 E381	12/08/2017 03/26/2007	remaining	N	Υ V	< 0.4	7 UJ 6 UJ	20.9		12	7 1	. 4.0		31.5		───┘
W42A		14.2				0.8	816555			remaining	N	Y V			20.9			.7 J .5 J	< 1.3 < 1.5		45.7	1	Į/
W42A		14.2	135-B6F_12.8-13.4_816555 135-W42A-SW-S-12.6-13.1	12.8 - 13.4 ft 12.6 - 13.1 ft		0.8 1.1	JC51260-3A		03/26/2007 09/20/2017		N	T V	< 0.4	7 UJ	21.0	-		.5 J .4 J-	< 0.50		45.7	J	<b>ا</b>
W42A		14.2	135-W42A-SW-S-12.6-13.1	12.6 - 13.1 It 14.6 - 15.1 ft		-0.9	JC51260-3A	JC51260A JC51260A	09/20/2017	remaining remaining	N	T V	-	8 U 2 J	24.0			.4 J- .3 J-	< 0.50		28.3		<b>ا</b>
W47A		14.2	ASM-V47A-SW-E-10.5-11.0	14.0 - 15.1 ft 10.5 - 11.0 ft		3.4	JC55606-4R	JC51260A JC55606R	11/16/2017	J	N	T V		2 J 3 J-	100		20	.3 J-	< 0.56	0	20.3		<b>ا</b>
W48A		14.0	ASM-W48A-6.0-6.5			5.4 7.5	JC26186-9AR	JC26186AR		J	N	1 V	0.4		18.7	7 1	10	.0 J	< 0.45	11	16.7		<b>ا</b>
W48A		14.0	ASM-W48A-6.0-6.5X		8.0	7.5	JC26186-10AR	JC26186AR		remaining	FD	1 V	-	3 J	27.5			.0 J .8 J	< 0.43		26.0		<b>ا</b>
W48A		14.0	ASM-W48A-8.0-8.5		6.0	5.5				0	N	۱ ۷	< 1.		3510			.8 J 19 J	< 2.0		105		<b>├───</b> ノ
W48A		14.0		10.0 - 10.5 ft		3.5	JC26186-2AR	JC26186AR		remaining	N	V		5 J	211	-		.1 J	< 0.50		25.8		<b>├───</b> ノ
W48A		14.0	ASM-W48A-12.0-12.5	12.0 - 12.5 ft		1.5	JC26186-3AR	JC26186AR		0	N	Y	0.7		15.7	-		.6 J	< 0.41		23.0		<b>├───</b> ┦
W48A		14.0	ASM-W48A-14.0-14.5	14.0 - 14.5 ft		-0.5	JC26186-4AR	JC26186AR		remaining	N	Y	0.5		13.1			.0 J	< 0.40		33.0		<b>├───</b> ┦
W48A		14.0	ASM-W48A-15.5-16.0	15.5 - 16.0 ft		-2.0	JC26186-5AR	JC26186AR		remaining	N	Y	< 0.3		14.2	-	-	.0 J	< 0.48	-	21.3		<b>├───</b> ┦
		14.0	ASM-W48A-16.0-16.5	16.0 - 16.5 ft		-2.5	JC26186-6AR	JC26186AR		0	N	Y	< 0.3		8.6	-	-	.0 0 .2 J	< 0.48		11.7		<b>├───</b> ┦
W48A	ASM-W49A-SW-N1R	-	ASM-W49A-SW-N-5.5-6.0R		8.7	8.2	JC57275-2	JC57275	12/13/2017		N	Y	10.		0.0		Ŭ	.2 0	< 0.40	0	11.7		<b>├───</b> ┦
W49A		14.2	ASM-W49AR-7.5-8.0		6.7	6.2	JC28559-9A		09/28/2016	remaining	N	Y		9 J	307	,	31	1	< 1.7	U	30.6	J	<b>├───</b> ┦
W49A		14.2	ASM-W49AR-9.5-10.0		4.7	4.2	JC28559-10A	JC28559A	09/28/2016	remaining	N	Y	< 0.4		12.7		15	-	< 0.60	-	25.9		ļļ
W49A		14.2	ASM-W49AR-9.5-10.0X		4.7	4.2	JC28559-11A	JC28559A	09/28/2016	remaining	FD	Y	< 0.5		14.4		17		< 0.69	U	44.4		<i> </i>
W49A		14.2	ASM-W49AR-11.5-12.0	11.5 - 12.0 ft		2.2	JC28559-4A	JC28559A	09/28/2016	remaining	N	Ŷ	< 0.5		12.9	-	18	-	< 0.79	UJ	29.0	-	<i> </i>
W49A		14.2	ASM-W49AR-13.0-13.5	13.0 - 13.5 ft		0.7	JC28559-5A	JC28559A	09/28/2016	remaining	N	Y	< 0.3		16.7		10		< 1.5		25.6		<u>├</u> ───┤
W49A		14.2	ASM-W49AR-13.5-14.0	13.5 - 14.0 ft		0.2	JC28559-6A		09/28/2016	remaining	N	Y	< 0.7		20.6		25	-	< 1.1		30.6		<u>├</u> ──┤
W49A		14.2	ASM-W49A-SW-E-5.5-6.0		8.7	8.2	JC56973-3	JC56973	12/08/2017		N	Y	-	3 J-		1		-			50.0		S2
W49A		14.2	ASM-W49A-SW-E-5.5-6.0X		8.7	8.2	JC56973-4	JC56973	12/08/2017	remaining	FD	Y		6 J-	1								S2
		14.1		13.0 - 13.5 ft	-		JC26083-16AR			0	N	Y		4 J	19.6	5 J	12	.8	< 0.40	U	21.7		
X43A		14.1		15.0 - 15.5 ft		-1.4	JC26083-17AR			U U	N	Y	< 0.3		20.2		12		< 0.49		29.5		
X43A	ASM-X43A	14.1		15.5 - 16.0 ft		-1.9	JC26083-18AR			remaining	Ν	Y	< 0.3		20.2		12	.6	< 0.48	U	31.2		
X43A	ASM-X43A	14.1	ASM-X43A-16.0-16.5	16.0 - 16.5 ft	-1.9	-2.4	JC26083-19AR	JC26083AR	08/18/2016	remaining	Ν	Y	< 0.2	9 UJ	32.0		25	.4	< 0.40	U	43.8		
X45A	ASM-X45A-PB	14.3		12.3 - 12.8 ft		1.5	JC53724-2A	JC53724A	10/23/2017	remaining	Ν	Y	< 0.8	2 UJ	207	′ J	34	.8 J	< 0.88	UJ	45.0	J	
X45A	ASM-X45A-SW-E1	14.3	ASM-X45A-SW-E-6.3-6.8	6.3 - 6.8 ft	8.0	7.5	JC53724-12A	JC53724A	10/23/2017	remaining	Ν	Υ	0.9	8 J	21.9		22		< 0.48	U	27.0		S2
X45A		14.3		6.3 - 6.8 ft	8.0	7.5			10/23/2017	remaining	FD	Y	< 0.4	4 UJ	38.9		18		< 0.47		28.5		S2
X45A		14.3	ASM-X45A-SW-E-8.3-8.8	8.3 - 8.8 ft	6.0	5.5	JC53724-13A	JC53724A	10/23/2017	remaining	Ν	Y	1.	6 J	38.1	J	20		< 0.53	U	34.7		S2
X45A		14.3		10.3 - 10.8 ft	4.0	3.5			10/23/2017	remaining	Ν	Y	< 0.4	4 UJ	17.8	3 J	12	.5	< 0.48	U	30.2		S2
X46A		14.3		10.3 - 10.8 ft		3.5			10/23/2017	remaining	Ν	Y	15.		314	-	29		< 0.55		29.9		
X46A		14.2		11.5 - 12.0 ft		2.2	JC28400-11A		09/26/2016	U	Ν	Y		7 J	190		18		< 0.61		23.6		
		14.2		13.5 - 14.0 ft		0.2			09/26/2016	remaining	Ν	Y	0.7		16.0	-	12		< 0.50		26.8		
X46A		14.2		15.5 - 16.0 ft		-1.8			09/26/2016	remaining	Ν	Y	0.3		16.7		10	-	< 0.48		25.1		
X46A		14.2		17.5 - 18.0 ft		-3.8			09/26/2016	J	Ν	Y	0.6		19.8		11		< 0.46		25.6		
X46A		14.2		19.0 - 19.5 ft		-5.3			09/26/2016	ő	Ν	Y	0.3		12.8		7		< 0.47		19.0		
X46A	ASM-X46AR	14.2	ASM-X46AR-19.5-20.0	19.5 - 20.0 ft	-5.3	-5.8	JC28400-16A	JC28400A	09/26/2016	remaining	N	Y	< 0.6	4 UJ	18.5	J	19	.6 J	< 0.88	UJ	35.6	J	1 1

#### **ABBREVIATIONS:**

bgs - below ground surface CAS RN - Chemical Abstracts Service Registry Number CCPW - Chromate Chemical Production Waste Cr - chromium Cr<sup>+3</sup> - trivalent chromium FD - field duplicate sample type ft - feet mg/kg - milligrams per kilogram N - normal sample type NAVD88 - North American Vertical Datum of 1988 N/A - not applicable NJDEP - New Jersey Department of Environmental Protection NRDCSRS - Non-Residential Direct Contact Soil Remediation Standard 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 TEE - terminal excavation elevation

### QUALIFIERS:

J - The result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample.

J- - The analyte was positively identified; the associated numerical value is an estimated quantity with a potential low bias.

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 S through Y (extending west to east) and Grid Column 49A through 41A (extending from south to north).

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. Post-excavation location elevations were assigned location elevations based on the elevation of the PDI sample for which they are named.

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 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" of "remaining" indicates the soil in that interval is outside the excavation footprint, and remains in-place at that location.

G14. The post-excavation survey points and 1-ft post-excavation contours representing the as-built terminal excavation elevations are provided on Figure 5-2.

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 gualifier assigned by the data validation team reviewing the data from the laboratory for validated data. For unvalidated data, it refers to the gualifier assigned by the laboratory.

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<sup>+3</sup> of 120,000 mg/kg as the cleanup criteria for soil at the Garfield Avenue Group Sites. There is no nonresidential SCC for Cr<sup>+3</sup>. Bold values indicate a result that exceeds the interim NJDEP Residential SCC.

# Table 5-2 CCPW Metals Analytical Results for In-Place Soil Compared to Soil Remediation Standards Al Smith Moving, Garfield Avenue Group PPG, Jersey City, New Jersey

### SPECIFIC NOTES:

S1. In Grids T49A and U48A, the location elevations of two or more locations situated inside the area of the former building slab and in the same grid vary by more than two feet. The higher location elevation represents the measured pre-remediation surface elevation of a PDI boring installed within the concrete slab. As explained in General Note G3, the location elevation of the post-excavation samples were assigned in the field based on the location elevation of the PDI boring for which the sample is named. In Grids T49A and U48A, the PDI borings used to estimate the pre-remediation elevations of the post-excavation samples fall outside the building slab, while the post-excavation samples fall inside the footprint of the building slab.

S2. In Grids W49A and X45A, sidewall samples collected from Pacific Avenue were used in the evaluation of compliance for the portion of these grids located within AI Smith Moving.