F

Summary of Surface Soil, Subsurface Soil, and Groundwater Data

Table F-1 Pre-1955 Main Processing Area Surface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil																	
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual
10MP424344SS		0.5	10MP424344SS	T/WR		880		1580			1840		590	J	1000			136		3.9	J	1.3	
10MP5051525354SS		0.5	10MP5051525354SS	T/WR		10100	J	9140			3610		2000		2800			144		174		7.6	
10MP55565758SS		0.5	10MP55565758SS	T/WR		764	J	960			1100		920		900			114		15		4	
MP42		0.5	10MP42SS	T/WR	954	560				1207	1770						74	124					
MP43		0.5	10MP43SS	T/WR	1228	720				1824	2080						129	149					
MP44		0.5	10MP44SS	T/WR	935	340				725	860						54	86					
MP45		0.5	10MP45SS	T/WR	427	220				1009	1800						67	87					
MP46		0.5	10MP46SS	T/WR	15,000	13000				5616	4940						136	194					
MP47		0.5	10MP47SS	T/WR	872	90				1499	1180						59	118					
MP48		0.5	10MP48SS	T/WR	6895	5980	J			3825	3940						740	1260					
MP49		0.5	10MP49SS	T/WR	13,100	10900	J			4597	4130						136	176					
MP50		0.5	10MP50SS	T/WR	965	210	J			579	826						56	318					
MP51		0.5	10MP51SS	T/WR	23,300	23300	J			5433	4610						131	119					
MP52	MW26	0.5	10MP52SS	T/WR	23,700	18500	J			5708	5000						176	183					
MP53		0.5	10MP53SS	T/WR	2712	1480	J			2602	3000						85	183					
MP54		0.5	10MP54SS	F	190	20	J			852	1360						25	24.4					
MP55		0.5	10MP55SS	T/WR	3062	1890	J			1345	2150						66	124					
MP56		0.5	10MP56SS	N or DN	515	183	J			280	333						<10.4	19.1					
MP57		0.5	10MP57SS	T/WR	2572	1630	J			1458	2000						97	150					
MP58		0.5	10MP58SS	T/WR	1016	716	J			661	1080						52	114					
MP59		0.5	10MP59SS	WR	143	170	J	110		212	1130		370		36	U	<12.5	115		0.2			
MP60	MW27	0.5	10MP60SS	T/WR	978	660	J			1594	1800						207	144					
MP61		0.5	10MP61SS	T/WR	2183	1200	J			904	1410						49	68					
MP62	MW24	0.5	10MP62SS	T/WR	3405	1590	J			1484	1880						100	165					
MP63		0.5	10MP63SS	T/WR	3632	2680	J			2710	2880						125	150					
MP64		0.5	10MP64SS	T/WR	3008	1810	J			2441	2520						118	172					
MP65		0.5	10MP65SS	T/WR	1692	589	J			895	1200						23	54					
MP66	MW23	0.5	10MP66SS	T/WR	1305	220	J			1722	2490						135	145					

Notes:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence

Table F-2 Post-1955 Main Processing Area Surface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil																	
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual
10MP030405SS		0.5	10MP030405SS	T/WR		5500	J	9250			5580		3050		5700			680		30		5	
10MP06070809SS		0.5	10MP06070809SS	T/WR		4420	J	8190			4520		2810		5400			750		8		3.1	
MP67		0.5	10MP67SS	T/WR	9690	9830	J			5095	5240						477	730					
MP68		0.5	10MP68SS	F	732	351	J			675	959						37	109					
MP01	MW08	0.5	10MP01SS	N	<20.8	20	J	70		80	100		50	U			<10.1	2.6		0.1			
MP02		0.5	10MP02SS	Ore Pile	1244	210	J	90		5967	7310		440				157	88		0.6			
MP03		0.5	10MP03SS	T/WR	7540	4720	J			5734	5200						473	710					
MP04		0.5	10MP04SS	T/WR	8127	5530	J			5613	6670						406	860					
MP05		0.5	10MP05SS	T/WR	8031	4460	J			5529	5660						439	900					
MP06		0.5	10MP06SS	T/WR	7882	5750	J			5756	5640						469	750					
MP07		0.5	10MP07SS	T/WR	11400	8200	J			5510	4280						686	790	J				
MP08		0.5	10MP08SS	T/WR	2363	1220	J			2294	3040						199	295					
MP09		0.5	10MP09SS	T/WR	4725	1990	J			3636	4200						281	560					
MP10		0.5	10MP10SS	T/WR	771	470	J			877	1540						109	172					
MP11		0.5	10MP11SS	T/WR	9,424	6980	J			4607	5320						399	660				11.3	
MP12	MW11	0.5	10MP12SS	T/WR	14,300	10900	J			5496	4870						231	304					
MP13		0.5	10MP13SS	T/WR	16,000	12100	J			6050	4890						493	690					
MP14	MW10	0.5	10MP14SS	T/WR	5132	3400	J			1791	2320						111	162				75.8	
MP15		0.5	10MP15SS	T/WR	15,000	11800	J			5604	4660						188	217					
MP16		0.5	10MP16SS	T/WR	3483	1570	J	2790		5043	6950		3870		3200		241	290		5.7			
MP17	MW09	0.5	10MP17SS	T/WR	9493	6180	J	7740		5608	5540		4900		11000		298	460		14.7			
MP18		0.5	10MP18SS	T/WR	7412	4810	J			2303	2570						81	136				4	U
MP19		0.5	10MP19SS	N or DN	139	40				127	170						17	38				4	U
MP20	MW13	0.5	10MP20SS	F	75	40				164	230						41	62					
MP21		0.5	10MP21SS	F	839	80				299	360						44	63					
MP22		0.5	10MP22SS	T/WR	2545	2500				1722	1960						105	106					
MP23		0.5	10MP23SS	T/WR	10,000	8720				4456	4380						211	261					
MP24		0.5	10MP24SS	T/WR	2861	1180				2204	2020						301	440					
MP25	MW14	0.5	10MP25SS	T/WR	14,500	14100		9240		5533	5400		3820		5700		783	1340		21	J		
MP26		0.5	10MP26SS	T/WR	15,100	15100		11200		6315	6420		4890		9000		1182	1620		12	J		
MP27		0.5	10MP27SS	T/WR	9801	8480		10700		6781	6100		3660		7300		313	250		1.5	J		
MP28		0.5	10MP28SS	T/WR	8388	4780				5871	5350						446	820					
MP29	MW15	0.5	10MP29SS	T/WR	19,100	16700		31300		6986	6170		6000		13800		303	440		7	J		
MP30	MW16	0.5	10MP30SS	T/WR	2643	720				3063	2930						121	400					
MP31	MW18	0.5	10MP31SS	B	<20.9	7				18	19						<9.2	0.28					
MP32		0.5	10MP32SS	FT	1983	1430		3660		6854	9880		2310		2800		69	127		3.3	J		
MP33	MW19	0.5	10MP33SS	N	<17.9	9				18	18						<9.6	1.46					
MP34		0.5	10MP34SS	FT	1129	780		480		5148	8510		700	J	900		39	79		1.2	J		
MP35		0.5	10MP35SS	T/WR	3032	1680				1777	2390						80	183					
MP36		0.5	10MP36SS	FT	733	690		510		3854	7050		570	J	700		63	75		1.4	J	4	U
MP37		0.5	10MP37SS	DN or F	<23.2	20				45	60						<10.7	3.6					
MP38	MW20	0.5	10MP38SS	T/WR	963	760				709	992						78	154					
MP39	MW21	0.5	10MP39SS	T/WR	3605	1910				1470	1770						43	42					
MP40	MW22	0.5	10MP40SS	T/WR	837	267				231	375						<12.4	15					
OP01		0.5	10OP01SS	Calcine Pile	17,800	3520	J	1950		6537	5340		4430		29100		48	170		4.8	J	0.3	

Notes:
For soil type descriptions see Table B-1, Appendix B.
XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence

Table F-3 Red Devil Creek Downstream Alluvial Area and Delta Surface Soils

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil													
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual
RD01		0.5	10RD01SS	N or DN	<21.7	0.61	U			20	39					1.74			
RD02		0.5	10RD02SS	Mixed RDCA, Soil, and T/WR	1625	530	J			1037	1280					43			
RD03		0.5	10RD03SS	T/WR	807	479	J			784	950					28			
RD04		0.5	10RD04SS	Mixed RDCA, Soil, and T/WR	2465	381	J	620		1463	1210		540			99		37	
RD05	MW32	0.5	10RD05SS	N or DN	<19.3	39	J			57	67					3.8			
RD06		0.5	10RD06SS	DN with local fill	1078	677	J	1290		820	1250		660			186		40	
RD07		0.5	10RD07SS	DN with local fill	44	30	J			58	76					16			
RD20	MW33	0.5	10RD20SS	T/WR (road base)	2175	974	J			1094	1310					75			

Table F-4 Red Devil Creek Upstream Alluvial Area Surface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil													
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual
RD08		0.5	10RD08SS	DN (KG)	<21.6	1.2	U			24	30				<9.7	0.9			
RD09		0.5	10RD09SS	DN (KG)	<22.9	1.4	UJ	50	U	130	20		50	J	<10.7	2		0.1	UJ
RD10		0.5	10RD10SS	RDCA	20.4	30	J			18	220				<8.7	6.4			
RD11		0.5	10RD11SS	RDCA	<17.6	14	J	50	U	21	41		50	UJ	<7.2	6.6		0.7	J
RD12		0.5	10RD12SS	RDCA	<18.6	0.69	UJ	50	U	19	25		50	U	<7.5	0.79		0.1	U
RD13	MW12	0.5	10RD13SS	RDCA	<16.5	0.8	UJ			8	20				<6.9	0.6			
RD14		0.5	10RD14SS	RDCA	<19.3	0.7	UJ			8	13				<7.9	0.96			
RD15		0.5	10RD15SS	RDCA	<19.0	0.65	UJ			<7.0	8				<7.7	0.13			
RD16		0.5	10RD16SS	RDCA	<19.0	8	J			9	0.47	U			<7.7	0.25			
RD17		0.5	10RD17SS	RDCA	<20.2	0.62	UJ			9	0.47	U			<8.5	0.14			
RD18		0.5	10RD18SS	RDCA	<18.2	0.8	UJ	50	U	23	40		50	U	<8.0	1.57		0.1	U
RD19		0.5	10RD19SS	RDCA	<17.2	0.76	UJ	50	U	10	12		50	U	<6.9	1.86		0.1	U

Notes to Tables F-3 and F-4:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key to Tables F-3 and F-4:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
UJ	Indicates the compound or analyte was analyzed for but not detected. The associated reporting limit is an estimated value.
XRF	X-ray fluorescence

Table F-5 Dolly Sluice Surface Soil

Station ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil														
				XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual
DS01	0.5	10DS01SS	SO	<25.7	40	J	60		438	1010		50	U	169	71		1.6	J
DS02	0.5	10DS02SS	SO	71	40	J			244	550				25	22			
DS03	0.5	10DS03SS	DN	<20.0	21	J			177	355				15	16			

Table F-6 Rice Sluice Surface Soil

Station ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil														
				XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual
RS01	0.5	10RS01SS	SO	<18.5	34	J	50	U	27	29		50	U	<8.4	1.25		0.1	U
RS02	0.5	10RS02SS	SO	<21.6	9	J			20	30				<10.2	1.15			
RS03	0.5	10RS03SS	SO or DN or N	<21.1	0.53	UJ			80	110				<9.4	3.57			

Notes to Tables F-5 and F-6:
For soil type descriptions see Table B-1, Appendix B.
XRF results are for non-dried samples.
Key to Tables F-5 and F-6:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
UJ	Indicates the compound or analyte was analyzed for but not detected. The associated reporting limit is an estimated value.
XRF	X-ray fluorescence

Table F-7 Surface Mined Area Surface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Soil														
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (ug/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (ug/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (ug/L)	Qual
MP41	MW29	0.5	10MP41SS	DN	57	39		50	U	252	516		50	U	<11.3	8		0.9	J
SM01		0.5	10SM01SS	DN (KG, MZ)	94	40	J			762	1710				20	29			
SM02		0.5	10SM02SS	DN (KG, MZ)	73	80	J			1762	3620				<14.7	44			
SM03		0.5	10SM03SS	DN (KG, MZ)	52	90	J	50	U	1335	2290		170		20	21		1.3	
SM04		0.5	10SM04SS	DN (KG, MZ)	48	20	J			512	1470				13	31			
SM05		0.5	10SM05SS	DN (KG, MZ)	252	140	J	50	U	3650	5120		560		46	102		1.6	
SM06		0.5	10SM06SS	DN (KG, MZ)	51	30	J			587	890				<13.4	25			
SM07		0.5	10SM07SS	DN (KG, MZ)	<25.3	2.3	UJ	50	U	5208	8510		300		53	174		4.2	
SM08		0.5	10SM08SS	DN (KG, MZ)	<24.9	10	J			148	230				<12.5	8			
SM09		0.5	10SM09SS	DN (KG, MZ)	<24.7	1.1	UJ			164	190				<12.9	9			
SM10		0.5	10SM10SS	DN (loess)	<21.9	0.45	UJ			15	12				<10.0	0.15	J		
SM11		0.5	10SM11SS	N or DN (loess)	<21.4	0.49	UJ			10	11				<10.1	0.17	J		
SM12		0.5	10SM12SS	DN (KG and loess)	<23.6	1.2	UJ	50	U	63	90		50	U	<10.5	5.4	J	0.1	U
SM13		0.5	10SM13SS	DN (KG)	69	40	J	110		520	670		50	U	<11.8	23	J	1.3	J
SM14		0.5	10SM14SS	DN (loess)	<21.7	0.48	UJ			<8.0	10				<9.8	0.14	J		
SM15		0.5	10SM15SS	DN (KG)	<21.3	0.48	UJ			18	21				<10.2	0.62	J		
SM16		0.5	10SM16SS	DN (KG)	<23.3	1.2	UJ			132	350				<11.4	8.8	J		
SM17		0.5	10SM17SS	DN (KG)	<22.2	20	J			158	361				<10.9	12	J		
SM18		0.5	10SM18SS	DN (KG)	<28.5	1.2	UJ	50	U	270	230		50	U	<14.8	11	J	0.3	J
SM19		0.5	10SM19SS	DN (KG)	<23.6	20	J	50	U	313	670		70		<11.8	14	J	2	J
SM20		0.5	10SM20SS	DN (loess)	<20.5	0.48	UJ			<8.6	9				<10.3	0.11	J		
SM21		0.5	10SM21SS	DN (KG)	<24.1	0.47	UJ	50	U	47	39		50	U	<10.5	2	J	0.1	U
SM22		0.5	10SM22SS	DN (KG)	<21.2	0.49	UJ			29	17				<9.8	0.05	J		
SM23		0.5	10SM23SS	DN (KG)	1035	508	J	1430		195	223		90		<10.7	8.2	J	1	J
SM24		0.5	10SM24SS	DN (KG)	<23.0	1.2	UJ			13	0.9	U			<10.2	0.26	J		
SM25		0.5	10SM25SS	DN (KG)	<22.3	1.1	UJ			19	40				<11.9	0.9	J		
SM26		0.5	10SM26SS	DN (KG)	<22.0	0.49	UJ			9	13				<9.6	0.64	J		
SM27		0.5	10SM27SS	DN (KG)	<25.3	1.2	UJ	50	U	20	20		50	U	<13.2	1.9	J	0.2	J
SM28		0.5	10SM28SS	DN (KG and loess)	471	109	J	380		235	177		50	U	<10.3	17	J	1.4	J
SM29		0.5	10SM29SS	DN (loess)	<23.8	0.5	UJ			12	11				<10.5	0.17	J		
SM30		0.5	10SM30SS	WB	<21.5	0.54	UJ			29	46				<9.7	1.9	J		

Notes:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
UJ	Indicates the compound or analyte was analyzed for but not detected. The associated reporting limit is an estimated value.
XRF	X-ray fluorescence

Table F-8 Pre-1955 Main Processing Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil																Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP45	NA	2	11MP45SB02	T/WR	None	NA	5,108					1,247						29																				
		4	11MP45SB04	T/WR			12,998	11800	J			2,999	3610	J				81	1310	J																		
		6	11MP45SB06	T/WR and F			66					158						50																				
		8	11MP45SB08	T/WR			214					141						ND																				
		10	11MP45SB10	T/WR | N		744	104	J			506	282	J				82	265	J																		
		12	11MP45SB12	N			ND	16.5	J			26	152					ND	1020	J																		
MP46	NA	2	11MP46SB02	T/WR	None	NA	14,515					5,648						130																				
		4	11MP46SB04	T/WR			20,252	15800	J			6,121	4650	J				110	167	J																		
		6	11MP46SB06	T/WR			6,925					4,770						95																				
		8	11MP46SB08	T/WR			749					468						55																				
		10	11MP46SB10	T/WR			410					379						28																				
		12	11MP46SB12	WR			489	3150	J			274	449	J				16	219	J																		
		14	11MP46SB14	WR			NS					NS						NS																				
		16	11MP46SB16	WR			NS					NS						NS																				
		18	11MP46SB18	WR | N			1,012					425						16																				
		20	11MP46SB20	N			177					ND						28																				
MP47	NA	2	11MP47SB02	WR	None	NA	6,279					4,145						81																				
		4	11MP47SB04	WR			630	1750	J			907	3840	J				123	939	J																		
		6	11MP47SB06	WR			384					349						20																				
		8	11MP47SB08	WR			210					822						25																				
		10	11MP47SB10	WR			NS					NS						NS																				
		12	11MP47SB12	WR			NS					NS						NS																				
		14	11MP47SB14	WR			187					443						33																				
		16	11MP47SB16	WR			100					226						21																				
		18	11MP47SB18	WR			NS					NS						NS																				
		20	11MP47SB20	WR			353					416						19																				
		22	11MP47SB22	WR			369	481	J			1,090	1470					49	303	J																		
		24	11MP47SB24	WR | N			274					572						27																				
		26	11MP47SB26	N			ND	23.9	J			101	111					ND	16	J																		
MP48	NA	2	11MP48SB02	T/WR	None	NA	11,526					5,111						753																				
		4	11MP48SB04	T/WR			202	1010	J			1,198	2730	J				21	131	J			7.4															
		6	11MP48SB06	T/WR			ND					894						ND																				
		8	11MP48SB08	T/WR			450	324	J			2,052	2550	J			120	56	304	J																		
		10	11MP48SB10	T/WR			ND					9						ND																				
		12	11MP48SB12	T/WR | N			3,495	361	J	721		3,292	1090	J	80	J			196	51.9	J	5.98																
		14	11MP48SB14	N			476					460						ND																				
MP49	NA	2	11MP49SB02	T/WR	None	NA	7,458					4,718						81																				
		4	11MP49SB04	T/WR			74					353						495																				
		6	11MP49SB06	T/WR			767	303				1,748	2810					41	134																			
		8	11MP49SB08	WR			97					685						37																				
		10	11MP49SB10	WR | N/DN			869	1240	J			224	348	J				15	263	J																		
		12	11MP49SB12	N			67					23						ND																				
		14	11MP49SB14	N			63	94.6	J			96	35.6	J				ND	38.5	J																		
MP50	NA	2	11MP50SB02	T/WR	None	NA	41					706						ND																				
		4	11MP50SB04	T/WR | WB			ND	5	J			356	230	J				ND	18	J																		
MP51	NA	2	11MP51SB02	T/WR	None	NA	6,623					3,298						528					4	U														
		4	11MP51SB04	F | T/WR			369	247	J			1,469	879					58	70.7	J																		
		6	11MP51SB06	T/WR | F			787	863	J	2220	J	998	2210	J	614		140		117	438	J	0.88	J															
		8	11MP51SB08	F | N or DN			265					522						ND																				
		10	11MP51SB10	N or DN			200					291						ND																				
		12	11MP51SB12	WB			324					329						ND																				
		14	11MP51SB14	WB			183	343	J			275	823	J				17	38.3	J																		
MP52	MW26	2	11MP52SB02	T/WR			8,472					4,041						227					4	U														
		4	11MP52SB04	T/WR			193					970						139																				
		6	11MP52SB06	T/WR			2,488	3770	J	3100	J	1,987	2690	J	841		530	146	500	J	9.4		4	U														
		8	11MP52SB08	T/WR | N or DN			ND					8						ND																				
		10	11MP52SB10	N or DN			ND	73.8	J	241	J	9	76.1	J	86	J	130	ND	18.8	J	4.51																	
		12	11MP52SB12	N or DN			141					141						17																				
		14	11MP52SB14	N or DN			145					98						ND																				
		16	11MP52SB16	N or DN			26					185						ND																				
		18	11MP52SB18	WB			37					225						13																				
		20	11MP52SB20	WB			85					338						23																				
		22	11MP52SB22	WB			48					186						ND																				
		24	11MP52SB24	WB			88					190						ND																				
		26	11MP52SB26	WB | B			ND	70.2	J			150	174	J				24	25	J																		
		28	NS	B																																	
		30	NS	B																																	
		32	NS	B																																	
		34	NS	B																																	
		36	NS	B	34.0 - TD	32.0 - 42.0																															
		38	NS	B																																	
		40	NS	B																																	
		42	11MP52GW	B																					26.2		32.3		78		68.3		237		33.8		0.48	J
MP53	NA	2	11MP53SB02	T/WR		NA	12,927					4,050						72																				
		4	11MP53SB04	F | T/WR			1,482	2220	J			1,307	2110	J				33	6110	J																		
		6	11MP53SB06	N or DN			804					699						12																				
		8	11MP53SB08	N or DN	7.8 - 8		617	262	J			510	625	J				15	108	J																		
MP54	NA	2	11MP54SB02	F | DN or F		NA	64					359						ND																				
		4	11MP54SB04	DN or F			352	110	J			354	746	J				33	4340	J																		
		6	11MP54SB06	DN or F			ND	40.5	J			30	181					ND	5.65	J																		
		8	11MP54SB08	DN or F	7.7 - 8		ND					150						ND																				
MP55	NA	2	11MP55SB02	T/WR	None	NA	3,980					4,384						1,757																				
		4	11MP55SB04	T/WR | N or DN			158	50.6	J			166	253					ND	30.4	J																		
		6	11MP55SB06	N or DN | WB			50	23.9	J			96	81					ND	4.21	J																		
MP56	NA	2	11MP56SB02	N or DN		NA	573					378						20					15.8														
		4	11MP56SB04	N or DN			1,379	696	J			442	421					26	86.6	J																		
		6	11MP56SB06	N or DN	4 - 6		1,559	1190	J	2930		513	715	J	204		320	628	2030	J	65.5																
		8	11MP56SB08	N or DN			254					281						59																				
		10	11MP56SB10	WB			25	27.7	J			120	129					12	15.2	J																		
		2	11MP57SB02	T/WR			4,377					2,621						92																				
		4	11MP57SB04	T/WR			6,044	28900	J			2,407	9460	J				611	2070	J																		

Table F-8 Pre-1955 Main Processing Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil																Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP57	NA	6	11MP57SB06	N or DN		NA	82	57.8	J			1,651	581	J					ND	15.2	J																	
		8	11MP57SB08	N or DN			51	137	J			114	483	J					ND	33.9	J																	
		10	11MP57SB10	N or DN	8 - 8.2		ND					128							ND																			
MP58	NA	2	11MP58SB02	T/WR	None	NA	94					188							ND																			
		4	11MP58SB04	T/WR			582	40.7	J			258	819						ND	69.4	J			4	U													
		6	11MP58SB06	T/WR			97					573							ND																			
		8	11MP58SB08	T/WR			18,100	19600	J	26200		3,898	4460	J	4880		6970		254	622	J	25.2																
		10	11MP58SB10	T/WR			4,144					1,324							53																			
		12	11MP58SB12	N or DN			179	117	J			316	323						ND	40.3	J																	
		14	11MP58SB14	N or DN			89					104							ND																			
MP59	NA	2	11MP59SB02	WR	None	NA	1,475					3,583							371																			
		4	11MP59SB04	WR			362	215	J			3,583	2870	J					40	423	J																	
		6	11MP59SB06	WR			69					717							ND																			
		8	11MP59SB08	WR			113					717							ND					4	U													
		10	11MP59SB10	WR			44					512							42																			
		12	11MP59SB12	WR | N			390	441	J	3080	J	263	319	J	208		420		50	31.1	J	2.43																
		14	11MP59SB14	N (loess)			949	570	J			260	366	J					ND	16.4	J																	
		16	11MP59SB16	N (loess)			121					17							ND					0.3	J													
MP60	MW27	2	11MP60SB02	T/WR			1,274					1,980							139																			
		4	11MP60SB04	T/WR			288	181	J			2,015	2510						73	276	J																	
		6	11MP60SB06	T/WR			NS					NS							NS																			
		8	11MP60SB08	T/WR			126					285							40																			
		10	11MP60SB10	T/WR			250					279							14					4	U													
		12	11MP60SB12	T/WR			774					897							50																			
		14	11MP60SB14	T/WR			1,149	240	J	319		2,863	3120	J	452		800		89	348	J	1.44																
		16	11MP60SB16	T/WR			304					1,215							20																			
		18	11MP60SB18	T/WR | N or DN			ND					11							ND																			
		20	11MP60SB20	N or DN			ND					18							ND																			
		22	11MP60SB22	N or DN			36					269							15																			
		24	11MP60SB24	N or DN	23.0 - 33.0		67	64.9	J			262	496						ND	38.6	J																	
		26	11MP60SB26	N or DN			489					641							ND																			
		28	11MP60SB28	N or DN			171					638							20																			
		30	NS	N or DN | WB																																		
		32	NS	WB	29.0 - TD																																	
		33	11MP60GW	WB																						9.16	J	8.48	J	22.6		22.1		411		277		0.07	J
MP61	NA	2	11MP61SB02	T/WR | F	None	NA	50					182							ND																			
		4	11MP61SB04	N or DN			95	2.33	J			11	52.9						ND	2.62	J																	
		6	11MP61SB06	N or DN			ND	1.25	J			126	19.7	J					ND	0.702	J																	
MP62	MW24	2	11MP62SB02	T/WR			6.035					3,213							279																			
		4	11MP62SB04	T/WR | N			133	973	J			199	416	J					64	906	J																	
		6	11MP62SB06	N			ND					16							ND																			
		8	11MP62SB08	N			ND					22							ND																			
		10	11MP62SB10	N			ND					19							ND																			
		12	11MP62SB12	N			ND					38							ND																			
		14	11MP62SB14	WB			175	3.23	J			78	27.3	J					ND	0.493	J																	
		16	11MP62SB16	WB			ND					38							ND																			
		18	11MP62SB18	WB			ND					59							ND																			
		20	11MP62SB20	WB		19.0 - 29.0	ND					26							ND																			
		22	11MP62SB22	WB			ND					23							ND																			
		24	11MP62SB24	WB	20 - TD		ND	4.55	J			31	26.4	J					ND	0.787	J																	
		26	11MP62SB26	WB			ND					11							ND																			
		28	NS	B																																	
		29	11MP62GW	B																						101	J	79.9	J	7.4		5.1		56500		6.11		0.23	J
MP63	NA	2	11MP63SB02	T/WR | N or DN	None	NA	622					324							19																			
		4	11MP63SB04	N or DN			157	115	J			69	61.6	J					ND	0.509	J																	
		6	11MP63SB06	N or DN			444	223	J			253	208	J					ND	7.89	J																	
MP66	MW23	2	11MP66SB02	F			397					393							ND																			
		4	11MP66SB04	N			28					11							ND																			
		6	11MP66SB06	N			35	131	J			23	196						ND	31	J																	
		8	11MP66SB08	N			ND					24							ND																			
		10	11MP66SB10	WB			ND	24.6	J			42	78						ND	1.87	J																	
		12	11MP66SB12	WB			ND					39							ND																			
		14	11MP66SB14	WB			ND					27							ND																			
		16	11MP66SB16	WB			23					18							ND																			
		18	11MP66SB18	WB			ND	1.02	J			39	36.6	J					ND	6.86	J																	
		20	11MP66SB20	WB		18.0 - 28.0	26					37							ND																			
		22	11MP66SB22	B	20 - TD		ND					27							ND																			
		24	NS	B																																	
		26	NS	B																																	
		28	11MP66GW	B																						2.4	J	1.87	J	9.2		8		261		2.39		0.05	UJ
MP88	MW28	2	NS	T/WR																																	
		4	NS	T/WR																																	
		6	NS	T/WR																																	
		8	NS	T/WR																																	
		10	NS	T/WR																																	
		12	NS	T/WR																																	
		14	NS	T/WR																																	

Table F-8 Pre-1955 Main Processing Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil																Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP88	MW28	16	NS	T/WR																																	
		18	NS	T/WR | N or DN																																	
		20	NS	N or DN																																	
		22	NS	N or DN																																	
		24	NS	N or DN																																	
		26	NS	N or DN																																	
		28	NS	N or DN																																	
		30	NS	N or DN | WB																																	
		32	NS	WB																																	
		34	NS	WB																																	
		36	NS	WB																																	
		38	NS	WB																																	
		40	NS	WB																																	
		42	NS	WB																																	
		44	NS	B																																	
		46	NS	B																																	
		48	NS	B																																	
		50	NS	B	49 - TD																																
		52	NS	B																																	
		54	NS	B		53.0 - 63.0																																	
		56	NS	(mine workings)																																	
		58	NS	(mine workings)																																	
		60	NS	(mine workings)																																	
		62	NS	(mine workings)																																	
		63	11MPGW88	(mine workings)																					19.3	J	9.18	J	32.8		8.4		4000		10.9		0.4	J
MP89	MW25	2	11MP89SB02	T/WR | F			535					228						11																				
		4	11MP89SB04	T/WR			ND					116						ND																				
		6	11MP89SB06	F			1,101	419	J			297	490					ND	251	J																		
		8	11MP89SB08	F | T/WR			805					39						374																				
		10	11MP89SB10	T/WR			729					504						18																				
		12	11MP89SB12	N			ND	48.8	J			15	123					ND	1.71	J																	
		14	11MP89SB14	N			ND					15						ND																				
		16	11MP89SB16	N			26					45						ND																				
		18	11MP89SB18	N			ND					21						ND																				
		20	11MP89SB20	N			197					22						ND																				
		22	11MP89SB22	N			ND					47						ND																				
		24	11MP89SB24	WB			45					40						ND																				
		26	11MP89SB26	WB			ND					28						ND																				
		28	11MP89SB28	WB			ND					30						ND																				
		30	11MP89SB30	WB			ND	46.1	J			51	28.7					115	0.932	J																	
		32	11MP89SB32	WB	32 - TD	31.0 - 41.0	ND					49						ND																				
		34	11MP89SB34	WB			ND					96						ND																				
		35	11MP89SB35	WB			ND					NS						NS																				
		37	11MP89SB37	WB			96					287						ND																				
		38	NS	WB																																	
		40	NS	WB																																	
		41	11MP89GW	WB																					5.86	J	3.71	J	6.2		3.6		452		44.7		0.07	J
MW04	MW04	2	MW04 0-2	T/WR								2989																										
		4	MW04 2-4	T/WR																																	
		6	MW04 4-6	T/WR								2720																										
		8	MW04 6-8	T/WR																																	
		10	MW04 8-10	T/WR																																	
		12	MW04 10-12	T/WR								598																										
		14	MW04 12-14	T/WR																																	
		16	MW04 14-16	T/WR								424																										
		18	MW04 16-18	T/WR | DN or F																																	
		20	MW04 18-20	DN or F																																	
		22	MW04 20-22	DN or F		20.0 - 30.0						33																										
		24	MW04 22-24	DN or F																																	
		26	MW04 24-26	DN or F	25.3 - TD							287																										
		28	MW04 26-28	DN or F																																	
		30	MW04 28-30	DN or F																																	
		30	11MW04GW	DN or F																					27.9		27.2		8		7.8		155		83.8		0.07	J
		31	MW04 30-31	N								198																										
MW06	MW06	2	MW06 0-2	T/WR								2810																										
		4	MW06 2-4	T/WR																																	
		6	MW06 4-6	T/WR								225																										
		8	MW06 6-8	N																																	
		10	MW06 8-10	N								142																										
		12	MW06 10-12	N																																	
		14	MW06 12-14	N		13.0 - 23.0																																
		16	MW06 14-16	N								143																										
		18	MW06 16-18	N																																	
		20	MW06 18-20	N																																	
		22	MW06 20-22	N	20 - TD							ND																										
		23	11MW06GW	N																					5.51		5.3		25.8		24.8		7.25		0.9	J	0.05	U
		24	MW06 22-24	N								39																										

Notes:
For soil type descriptions see Table B-1, Appendix B.
XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
NA	Not applicable
ND	Not detected
NS	Not sampled
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
TD	Total depth
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
UJ	Indicates the compound or analyte was analyzed for but not detected. The associated reporting limit is an estimated value.
XRF	X-ray fluorescence

Table F-9 Post-1955 Main Processing Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil																Groundwater												
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP01	MW08	2	11MP01SB02	N			NR					198						31																		
		4	11MP01SB04	N	2.5 - 4		NR	0.94	J			9	10.3	J				ND	0.435																	
		6	11MP01SB06	N		5.0 - 15.0	NR					12						ND																		
		8	11MP01SB08	N			NR					8						ND																		
		10	11MP01SB10	N			NR					7						ND																		
		12	11MP01SB12	N			NR	0.245	J			16	12.5	J				ND	0.361																	
		14	11MP01SB14	N	10.5 - TD		NR					9						ND																		
		15	11MP01GW	N																					1.59		1.58		0.6		0.5	J	21.5		1		0.1	J
		16	11MP01SB16	N			NR	0.501	J	20	UJ	34	34		20	U			ND	1.56	J	1.08														
MP10	NA	2	11MP10SB02	DN (cut & fill)	None	NA	NR					606						86					4	U											
		4	11MP10SB04	WB			NR	8.09	J			21	25.5	J				ND	3.6																	
		6	11MP10SB06	WB			NR	3.38	J	24	J	21	15.6	J	20	U	10	U	ND	5.63		2.24														
MP11	NA	2	11MP11SB02	T/WR	None	NA	10,377					5,155						365																		
		4	11MP11SB04	T/WR			10,093	5760	J	5710	J	4,920	3740	J	3080		7580		90	163	J	37.8														
		6	11MP11SB06	N			424	323	J			218	471	J				ND	71.2	J																
		8	11MP11SB08	N			44	5.86	J			207	38.2	J				ND	0.914	J																
MP12	MW11	2	11MP12SB02	T/WR	None		7,029					2,712						341																		
		4	11MP12SB04	F			761					378						35																		
		6	11MP12SB06	F			1,222	184	J			537	562					43	55.4	J																
		8	11MP12SB08	DN (cut & fill)			ND					260						ND																		
		10	11MP12SB10	DN (cut & fill)			ND					131						ND																		
		12	11MP12SB12	DN (cut & fill)			ND	0.547	J			67	91					ND	1.5																	
		14	11MP12SB14	N		12.0 - 22.0	ND					62						ND																		
		16	11MP12SB16	WB			ND	46.5	J			161	665					ND	11.5	J																
		18	11MP12SB18	WB			ND					122						ND																		
		20	NS	B																																
		22	2011 GW - NO SAMPLE	B																																
MP13	NA	2	11MP13SB02	T/WR	None	NA	208					283						ND																		
		4	11MP13SB04	F			ND	50.1	J			39	126					ND	16.6																	
		6	11MP13SB06	DN (cut & fill)			84	11.5	J			109	79.1					ND	23.9	J																
MP14	MW10	2	11MP14SB02	T/WR			1,723					1,388						101																		
		4	11MP14SB04	T/WR			2,647	6430	J	4810	J	1,499	1790		2900		9010		437	1410	J	166															
		6	11MP14SB06	DN (cut & fill)			465					411						ND																		
		8	11MP14SB08	DN (cut & fill)			147					181						ND																		
		10	11MP14SB10	DN (cut & fill)			327					466						ND																		
		12	11MP14SB12	DN (cut & fill)			1,496					522						57																		
		14	11MP14SB14	DN (cut & fill)			339	300				184	427					11	70.1																	
		16	11MP14SB16	DN (cut & fill)			ND					74						ND																		
		18	11MP14SB18	DN (cut & fill)			ND					135						ND																		
		20	11MP14SB20	DN (cut & fill)			1,098					362						25																		
		22	11MP14SB22	DN (cut & fill)			31					255						ND																		
		24	11MP14SB24	DN (cut & fill)			ND					132						ND																		
		26	11MP14SB26	DN (cut & fill)			ND					113						ND																		
		28	11MP14SB28	DN (cut & fill)			NS					116						ND																		
		30	11MP14SB30	WB	29 - 29.5		ND					73						ND																		
		32	11MP14SB32	WB | B			NS					NS						NS																		
		34	11MP14SB34	B			NS					NS						NS																		
		36	11MP14SB36	B			NS					NS						NS																		
		38	11MP14SB38	B			NS					NS						NS																		
		40	11MP14SB40	B			NS					NS						NS																		
		42	11MP14SB42	B			NS					NS						NS																		
		44	11MP14SB44	B			NS					NS						NS																		
		46	11MP14SB46	B			NS					NS						NS																		
		48	11MP14SB48	B			NS					NS						NS																		
		50.5	11MP14SB50.5	B	48	50.0 - 60.0	ND					75						ND																		
		52	11MP14SB52	B			NS					NS						NS																		
		54	11MP14SB54	B			NS					NS						NS																		
		56	11MP14SB56	B			NS					NS						NS																		
		58	11MP14SB58	B			ND	3.01	J			47	51.9					ND	2.9	J																
		60	11MP14GW	B																					6.49		0.5		96.9		92.1		532		0.62	J	0.05	U
MP15	NA	2	11MP15SB02	T/WR	None	NA	1,036					1,162						377																		
		4	11MP15SB04	DN (cut & fill)			236	46.8	J			120	80.4					ND	57.4	J																
		6	11MP15SB06	DN (cut & fill)			ND	2.52	J			49	44.5					ND	19.1	J																
		8	11MP15SB08	DN (cut & fill)			ND	0.916	J			58	29.1					ND	5.78	J																
MP16	NA	2	11MP16SB02	T/WR	None	NA	2,825					3,874						1,312																		
		4	11MP16SB04	DN (cut & fill)			ND	184	J			61	200					19	2170																	
		6	11MP16SB06	DN (cut & fill)			NR					NR						NR																		
		8	11MP16SB08	DN (cut & fill)			ND	2.22				49	46.7					ND	0.625																	
		10	11MP16SB10	DN (cut & fill)			ND	1.15				32	35					ND	14.9				4.7													
MP17	MW09	2	11MP17SB02	T/WR			3,443					1,817						118																		
		4	11MP17SB04	T/WR			52	255				615	1170					ND	274																	
		6	11MP17SB06	F			42					82						ND																		
		8	11MP17SB08	F			227					183						ND																		
		10	11MP17SB10	F			1,623					423						13																		
		12	11MP17SB12	F			101					122						ND																		
		14	11MP17SB14	DN (cut & fill)			640	164	J			255	141	J				17	22.7	J																
		16	11MP17SB16	DN (cut & fill)	14 - 16		ND					24						ND																		
		18	11MP17SB18	DN (cut & fill)			ND					45						ND																		
		20	11MP17SB20	DN (cut & fill)			39					46						ND																		
		22	11MP17SB22	DN (cut & fill)		20.0 - 30.0	ND					29						ND																		
		24	11MP17SB24	DN (cut & fill)			ND					67						ND																		
		26	11MP17SB26	DN (cut & fill)			ND					51						ND																		
		28	11MP17SB28	DN (cut & fill)			ND					44						ND																		
		30	11MP17SB30	DN (cut & fill)																																
		30	2011 GW - NO SAMPLE	DN (cut & fill)	31 - TD		ND	1.96	J			32	25.2					ND	1.88	J																
		32	11MP17SB32	DN (cut & fill) | WB			ND					20						ND					3.3													

Table F-9 Post-1955 Main Processing Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil																Groundwater																	
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP18	NA	2	11MP18SB02	T/WR | DN (cut & fill)		NA	NR					1,250						136																					
		4	11MP18SB04	DN (cut & fill)			NR	164	J	587	J	622	170		39	J	40	J	156	41	J	0.82	J																	
		6	11MP18SB06	DN (cut & fill)			NR					21						ND																					
		8	11MP18SB08	DN (cut & fill)			NR					86						ND																					
		10	11MP18SB10	DN (cut & fill)			NR	3.97	J			15	31.1	J				ND	1.24	J																			
		12	11MP18SB12	DN (cut & fill)			NR					22						ND																					
		14	11MP18SB14	DN (cut & fill)			NR					16						ND																					
		16	11MP18SB16	DN (cut & fill)	12.5		NR					24						9					4	U															
		18	11MP18SB18	DN (cut & fill)			NR					187						24																					
		20	11MP18SB20	DN (cut & fill)			NR	412	J	109	J	1,366	106		26	J	40	J	108	1.78	J	3.71																	
		22	11MP18SB22	N			NR					14						ND																					
MP19	NA	2	11MP19SB02	N	None	NA	NR					120						22																					
		4	11MP19SB04	N			NR	1.04	J	20	U	27	19.6	J	20	U	10	U	ND	1.88		1.58																	
		6	11MP19SB06	WB			NR	0.674	J			24	9.83						14	7.5	J																	
MP20	MW13	2	11MP20SB02	DN (cut & fill)			NR					72						11																					
		4	11MP20SB04	DN (cut & fill)			NR	0.909	J			34	22.2						14	2.12																			
		6	11MP20SB06	DN (cut & fill)			NR					29						ND																					
		8	11MP20SB08	DN (cut & fill)			NR	0.351	J			24	15.5	J				ND	0.639																					
		10	11MP20SB10	DN (cut & fill)			NR					19						ND																					
		12	11MP20SB12	DN (cut & fill)			NR	0.19	J			11	5.52	J				ND	0.718																					
		14	11MP20SB14	N			NR					15						ND																					
		16	NS	WB																																			
		18	NS	B																																			
		20	NS	B																																			
		22	NS	B																																			
		24	NS	B																																			
		26	NS	B																																			
		28	NS	B																																			
		30	NS	B																																			
		31	2011 GW - NO SAMPLE	B	27	21.0 - 31.0																																	
MP21	NA	2	11MP21SB02	DN (cut & fill)		NA	NR					52						ND																					
		4	11MP21SB04	DN (cut & fill)			NR	15.3	J			29	15.3					ND	1.09																					
		6	11MP21SB06	DN (cut & fill)			NR					ND						ND																					
		8	11MP21SB08	DN (cut & fill)			NR	1.48	J			8	10.8	J				ND	0.85																					
		10	11MP21SB10	DN (cut & fill)			NR					18						ND																					
		12	11MP21SB12	DN (cut & fill)			NR					19						ND																					
		14	11MP21SB14	DN (cut & fill)			NR	1.13	J			15	8.1					ND	0.751																					
		16	11MP21SB16	N	15		NR					14						ND																					
MP22	NA	2	11MP22SB02	T/WR		NA	1,540					1,049						67																					
		4	11MP22SB04	T/WR			3,987	6370	J			6,242	4970	J				ND	61.7																					
		6	11MP22SB06	T/WR			15,116					6,000						64																					
		8	11MP22SB08	T/WR			11,598	19300	J			5,796	7320	J				74	223																					
		10	11MP22SB10	T/WR			1,040					1,572						ND																					
		12	11MP22SB12	T/WR			2,276	2680	J			1,525	2370	J				34	72.8																					
		14	11MP22SB14	T/WR			613					469						ND																					
		16	11MP22SB16	DN (cut & fill)	14 - 17		ND					78						ND																					
MP23	NA	2	11MP23SB02	T/WR		NA	1,469					994						87																					
		4	11MP23SB04	T/WR			283					654						31																					
		6	11MP23SB06	T/WR			914					1,052						65																					
		8	11MP23SB08	T/WR			369					595						46																					
		10	11MP23SB10	T/WR			146	61.3	J			101	443	J				ND	337																					
		12	11MP23SB12	T/WR			289					365						16																					
		14	11MP23SB14	T/WR			1,387	1350	J			1,865	1420	J				67	119																					
		16	11MP23SB16	T/WR			2,360					1,390						63																					
		18	11MP23SB18	T/WR			1,822					3,377						153																					
		20	11MP23SB20	T/WR | N (RDCA)	18.3 - 18.5'		8,647					4,119						1,614																					
MP24	NA	2	11MP24SB02	T/WR	None	NA	NS					NS						NS																					
		4	11MP24SB04	T/WR			551	201	J			1,028	1900					73	390																					
		6	11MP24SB06	T/WR			NS					NS						NS																					
		8	11MP24SB08	T/WR			1,730					1,427						198																					
		10	11MP24SB10	T/WR			4,321					2,318						356																					
		12	11MP24SB12	T/WR			11,913	16100	J			5,933	9250					952	1520																					
		14	11MP24SB14	T/WR			11,728					7,662						766																					
		16	11MP24SB16	T/WR			11,745					4,874						334																					
		18	11MP24SB18	T/WR			9,403	4430	J			5,632	3150					228	499																					
		20	11MP24SB20	T/WR | N			141					1,218						29																					
		22	11MP24SB22	N			1,469					159						11																					
MP25	MW14	2	11MP25SB02	T/WR			10,035					5,041						276																					
		4	11MP25SB04	T/WR			10,242					4,995						337																					
		6	11MP25SB06	T/WR			10,963					5,648						418																					
		8	11MP25SB08	T/WR			14,789	13000	J			7,201	5360					657	564																					
		10	11MP25SB10	T/WR			11,304					4,701						253																					
		12	11MP25SB12	T/WR			12,857					5,205						291																					
		14	11MP25SB14	T/WR			13,561	16800	J			5,178	7020	J				292	565																					
		16	11MP25SB16	T/WR			10,146					4,340						41																					
		18	11MP25SB18	T/WR			4,315					3,402						30																					
		20	11MP25SB20	RDCA			265	405	J			71	84.8					ND	2.91																					
		22	11MP25SB22	RDCA			NS					NS						NS																					
		24	11MP25SB24	RDCA			79					141						ND																					
		26	11MP25SB26	RDCA			882	608	J			614	451					32	62.2																					
		28	11MP25SB28	RDCA			3,611					1,027						39																					
		30	11MP25SB30	RDCA			ND					282						ND																					
		32	11MP25SB32	RDCA	25.7 - TD	25.0 - 35.0	130					410						ND																					
		34	11MP25SB34	RDCA			78					204						ND																					
		35	11MP25GW	RDCA																					79.5	J	53.8	J	6650		6660		759		141		0.54	
		36	11MP25SB36	RDCA | WB			NS					NS						NS					3.2															

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							Soil																Groundwater													
Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP26	NA	2	11MP26SB02	T/WR	None	NA	13,873					6,678							654																			
		4	11MP26SB04	T/WR			11,603	14600	J			6,484	9530	J					559	1270																		
		6	11MP26SB06	T/WR			15,980					4,599							289																			
		8	11MP26SB08	T/WR			10,119					5,351							360																			
		10	11MP26SB10	T/WR			14,755	12400	J			8,180	8870	J					1,621	1070																		
		12	11MP26SB12	T/WR			11,927					4,552							138																			
		14	11MP26SB14	T/WR			7,439					2,901							ND																			
		16	11MP26SB16	T/WR | N			9,603	1280	J			3,869	808	J					89	44.2																		
		18	11MP26SB18	N			ND					37							ND					5.5													
MP27	NA	2	11MP27SB02	T/WR	None	NA	4,833					6,223							158																			
		4	11MP27SB04	N			285	131	J			56	20.8						ND	0.532	J																
		6	11MP27SB06	N			ND	53.8	J			35	93.4						ND	3.32	J			2.8													
MP28	NA	2	11MP28SB02	T/WR	None	NA	5,168					5,320							1,531					6.4	J												
		4	11MP28SB04	T/WR			8,135					7,997							663																			
		6	11MP28SB06	T/WR			15,233	15400	J	16400	J	8,406	7350		4830		10300		419	434	J	32.4															
		8	11MP28SB08	N			341	212	J			177	361						12	42.1																		
		10	11MP28SB10	N			ND	723	J			14	222	J					ND	56.9																		
MP29	MW15	2	11MP29SB02	T/WR			18,369					6,481							293																			
		4	11MP29SB04	T/WR			16,707					7,717							148																			
		6	11MP29SB06	T/WR			14,275	15800	J			5,676	7360	J					127	89.4																		
		8	11MP29SB08	T/WR			13,458					5,713							161																			
		10	11MP29SB10	T/WR			18,550	12600	J	75300	J	6,643	5580		3730	J			156	163		1.9																
		12	11MP29SB12	T/WR			15,844					5,537							149																			
		14	11MP29SB14	T/WR			16,686					4,345							105																			
		16	11MP29SB16	T/WR			11,269	12900	J			4,204	4540						75	66.7	J																	
		18	11MP29SB18	T/WR			5,065					3,957							81																			
		20	11MP29SB20	N or DN			1,373					841							66																			
		22	11MP29SB22	RDCA	16.2 - TD	15.0 - 25.0	2,246					624							45																			
		24	11MP29SB24	RDCA			132					92							ND																			
		25	11MP29GW	RDCA																						13100		13100		5620		5590		2910		2200		0.52	J
		26	11MP29SB26	RDCA			1,642					24							24					3.1													
MP30	MW16	2	11MP30SB02	T/WR			1,835					1,700							193					5.1	J												
		4	11MP30SB04	T/WR			1,556					1,150							184																			
		6	11MP30SB06	T/WR			6,309	12800	J	14500	J	5,452	8670		5320		15700		1,859	2370	J	356																
		8	11MP30SB08	T/WR			14,294					6,788							1,600																			
		10	11MP30SB10	N or DN			125					836							ND																			
		12	11MP30SB12	N or DN			1,123	4310	J			759	3990	J					16	136	J																	
		14	11MP30SB14	N or DN			5,160					2,893							466																			
		16	11MP30SB16	N or DN			61	195	J			186	255						ND	73.7	J																	
		18	11MP30SB18	N or DN		11.0 - 21.0	ND					16							ND																			
		20	11MP30SB20	N	16 - TD		ND					185							11																			
		21	11MP30GW	N																						678		658		1020		1010		1210		285		0.9	J
		24	NS	WB																																		
MP31	MW18	2	11MP31SB02	B			NR					21							11																			
		4	11MP31SB04	B			NR	2.34	J			16	19.7	J					12	1.92																		
		6	NS	B																																		
		8	NS	B																																		
		10	NS	B																																		
		12	NS	B																																		
		14	NS	B																																		
		16	NS	B																																		
		18	NS	B																																		
		20	NS	B																																		
		22	NS	B																																		
		24	NS	B																																		
		26	NS	B																																		
		28	NS	B																																		
		30	NS	B																																		
		32	NS	B																																		
		34	NS	B		29.0 - 39.0																																		
		36	NS	B																																		
		38	NS	B																																		
		39	11MP31GW	B	38 - TD																					1.04	J	0.654	J	1.3		0.7		50.4		2.7		0.05	UJ
MP32	NA	2	11MP32SB02	FT		NA	NR					2,410							207																			
		4	11MP32SB04	FT			NR	128	J			2,572	3720	J					152	134																		
		6	11MP32SB06	FT	4 - 8		NR	214	J	450		3,202	4170	J	1390				135	214		7.42																
		8	11MP32SB08	FT			NR	186	J			2,793	4010	J					1,247	378																		
		10	11MP32SB10	N or DN			NR					480							ND																			
		12	11MP32SB12	N or DN			NR					137							ND																			
		14	11MP32SB14	N or DN			NR					NS							NS					5													
MP33	MW19	2	11MP33SB02	N			NR					31							ND																			
		4	11MP33SB04	B			NR	3.68	J			21	9.91						ND	3.4	J																	
		6	NS	B																																		
		8	NS	B																																		
		10	NS	B																																		
		12	NS	B																																		
		14	NS	B																																		
		16	NS	B																																		
		18	NS	B																																		
		20	NS	B																																		
		22	NS	B																																		
		24	NS	B																																		
		26	NS	B																																		
		28	NS	B																																		
		30	NS	B																																		
		32	NS	B																																		
		34	NS	B																																		
		36	NS	B																																		

Table F-9 Post-1955 Main Processing Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil																	Groundwater												
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
		38	NS	B		32.0 - 42.0																														
		40	NS	B	39 - TD																																
		42	11MP33GW	B																				0.6	J	0.317	J	5.6		2.9		413		0.54	J	0.06	J
MP34	NA	2	11MP34SB02	FT			1,512					5,952						95					4	U												
		4	11MP34SB04	FT			1,046	1450	J			2,843	5780	J				120	211	J																
		6	11MP34SB06	FT			561	668	J	585	J	2,933	4010	J	673		1820	99	212	J	5.35															
		8	11MP34SB08	FT | N or DN			335	126	J			1,792	1120	J				60	73.4	J																
		10	11MP34SB10	N or DN			ND					226						ND																		
		12	11MP34SB12	N or DN			ND					70						ND																		
		14	11MP34SB14	N or DN	5 - TD	NA	ND					266						30																		
		16	11MP34SB16	N or DN			65					164						12																		
		18	11MP34SB18	N or DN			63					243						12																		
		20	11MP34SB20	WB			ND					269						10					1.3													
		22	NS	WB | B																																
MP35	NA	2	11MP35SB02	T/WR			8,640					4,975						630																		
		4	11MP35SB04	T/WR			2,045					1,712						93																		
		6	11MP35SB06	T/WR			2,462	4980	J			1,149	2350					272	335	J																
		8	11MP35SB08	T/WR			1,081					602						53																		
		10	11MP35SB10	T/WR			1,471					671						31																		
		12	11MP35SB12	T/WR		NA	9,039	3480	J			2,446	2870	J				167	504	J																
		14	11MP35SB14	T/WR			5,515					2,279						73																		
		16	11MP35SB16	T/WR			7,049	4500	J			2,111	1300					476	636	J																
		18	11MP35SB18	WB	13		156					147						21																		
		20	11MP35SB20	WB			148					281						17																		
		22	NS	B																																
MP36	NA	2	11MP36SB02	FT			932					5,922						128																		
		4	11MP36SB04	FT			970	965	J			5,339	7670	J			1300	96	311	J																
		6	11MP36SB06	FT			NS					NS						NS																		
		8	11MP36SB08	FT | F	1	NA	92	287	J			558	2440	J				22	14.3	J																
		10	11MP36SB10	F | FT			55					158						11																		
		12	11MP36SB12	WB			60					581						21																		
		14	11MP36SB14	WB			ND					476						16																		
		16	11MP36SB16	WB			ND	5.43				241	208	J				17	14	J			1.7													
MP37	NA	2	11MP37SB02	DN or F			ND					32						8																		
		4	11MP37SB04	DN or F			ND					52						ND																		
		6	11MP37SB06	DN or F			500	103	J			362	97.2	J				35	9.74	J																
		8	11MP37SB08	DN or F			843	255	J			240	126	J				67	20.6	J																
		10	11MP37SB10	N or DN			173					82						ND																		
		12	11MP37SB12	N or DN		NA	ND					29						ND																		
		14	11MP37SB14	N or DN | WB			ND					52						ND																		
		16	11MP37SB16	WB			ND	2.03				107	71.3	J				ND	4.32	J																
		18	11MP37SB18	WB	15		ND					136						ND																		
		20	11MP37SB20	WB			ND					122						ND																		
		22	11MP37SB22	WB | B			NS					NS						NS																		
MP38	MW20	2	11MP38SB02	T/WR			NR					1,772						604																		
		4	11MP38SB04	T/WR			NR					587						61																		
		6	11MP38SB06	T/WR			NR					913						139																		
		8	11MP38SB08	T/WR			NR					NS						NS																		
		10	11MP38SB10	T/WR (+ possible FT)			NR	6080	J	6720		3,117	3590	J	862			771	315	J	10.3															
		12	11MP38SB12	T/WR	6.5	4.5 - 14.5	NR					2,240						566																		
		14	11MP38SB14	TWR | N or DN			NR	1250	J			1,562	680	J				427	446	J																
		14.5	11MP38GW	N or DN																				566	J	616	J	161		173		1610		277		0.07	J
		16	11MP38SB16	N or DN			NR	413	J			718	706	J				93	93.3	J																
MP39	MW21	2	11MP39SB02	T/WR			NR					867						94																		
		4	11MP39SB04	T/WR			NR					3,778						104																		
		6	11MP39SB06	T/WR			NR	5430	J	4300	J	3,538	3240		2750	J		91	81.1		10.9															
		8	11MP39SB08	T/WR			NR	2180	J			2,605	866	J				495	43.8																	
		10	11MP39SB10	T/WR			NR					2,126						83																		
		12	11MP39SB12	N, DN, or F	7	6.5 - 16.5	NR	527	J			310	666					30	111																	
		14	11MP39SB14	WB			NR					710						79																		
		16.5	11MP39GW	B																				5860		5950		1760		1770		141		80.2		0.09	J
MP40	MW22	2	11MP40SB02	T/WR			NR					274						13																		
		4	11MP40SB04	T/WR			NR					640						20																		
		6	11MP40SB06	T/WR			NR	347	J			167	276	J				ND	10.3																	
		8	11MP40SB08	T/WR			NR	1460	J	1290	J	2,408	2390		582			457	185	J	37.1															
		10	11MP40SB10	B	7.8	4.5 - 14.5	NR	868	J			569	1150					94	119																	
		12	11MP40SB12	B			NR					NS						NS																		
		14.5	11MP40GW	B																				297		294		80.4		77.3		981		527		1.14	
MW07	MW07	2	MW07 0-2	N or DN								20																								
		4	MW07 2-4	N or DN																																
		6	MW07 4-6	N or DN								44																								
		8	MW07 6-8	N or DN																																
		10	MW07 8-10	N or DN																																
		12	MW07 10-12	N or DN								31																								
		14	MW07 12-14	N or DN																																
		16	MW07 14-16	N or DN								34																								
		18	MW07 16-18	N or DN																																
		20	MW07 18-20	N or DN	14.8	11.0 - 21.0						19																								
		21	2011 GW - NO SAMPLE	N or DN																																
		21	MW07 20-21	N or DN																																
		2	NS	T/WR																																
		4	NS	T/WR																																
		6	NS	T/WR																																
		8	NS	T/WR																																
		10	NS	N or DN																																
		12	NS	N or DN																																
		14	NS	N or DN																																
		16	NS	N or DN																																

Table F-9 Post-1955 Main Processing Area Subsurface Soil

							Soil																		Groundwater													
Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	TCLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	TCLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP91	MW17	18	NS	N or DN																																		
		20	NS	N or DN																																		
		22	NS	N or DN																																		
		24	NS	N or DN | WB																																		
		26	NS	WB	25, increase at 33																																	
		28	NS	B																																		
		30	NS	B																																		
		32	NS	B																																		
		34	NS	B																																		
		36	NS	B																																		
		38	NS	B																																		
		40	NS	B																																		
		42	NS	B		41.5 - 51.5																																	
		44	NS	B																																		
		46	NS	B																																		
		48	NS	B																																		
		50	NS	B																																		
		51.5	11MP91GW	B																						53.9		9.16		28.5		4.9		6070		9.49		0.2	J
MW01	MW01	2	MW01 0-2	T/WR								567																										
		4	MW01 2-4	T/WR																																		
		6	MW01 4-6	T/WR								670																										
		8	MW01 6-8	T/WR																																		
		10	MW01 8-10	T/WR																																		
		12	MW01 10-12	T/WR								1,120																										
		14	MW01 12-14	T/WR																																		
		16	MW01 14-16	T/WR								2,680																										
		18	MW01 16-18	T/WR	17.8																																	
		20	MW01 18-20	T/WR | N		19.0 - 29.0																																
		22	MW01 20-22	N								51																										
		24	MW01 22-24	N																																		
		26	MW01 24-26	N								ND																										
		28	MW01 26-28	N																																		
		29	11MW01GW	N																						1.9		1.64		3.3		3		25.4		6.19		0.85	
		30	MW01 28-30	N																																		
		31	MW01 30-31	N								56																										
MW03	MW03	2	MW03SB 0-2	T/WR & FT								3299																										
		4	MW03SB 2-4	T/WR & FT																																		
		6	MW03SB 4-6	T/WR & FT								2000																										
		8	MW03SB 6-8	T/WR & FT																																		
		10	MW03SB 8-10	T/WR & FT																																		
		12	MW03SB 10-12	T/WR & FT								2200																										
		14	MW03SB 12-14	F																																		
		16	MW03SB 14-16	N or DN		14.5 - 25.5																																
		18	MW03SB 16-18	N or DN								76																										
		20	MW03SB 18-20	N or DN	19.0																																	
		22	MW03SB 20-22	N or DN								ND																										
		24	MW03SB 22-24	N or DN																																		
		25.5	11MW03GW	N or DN																						917		861		58.9		56		47.7		9.09		0.05	UJ
		26	MW03SB 24-26	N or DN								115																										

Notes:
For soil type descriptions see Table B-1, Appendix B.
XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
NA	Not applicable
ND	Not detected
NR	Not reported
NS	Not sampled
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
TD	Total depth
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence

Table F-10 Red Devil Creek Downstream Alluvial Area and Delta Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil														Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (ug/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (ug/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (ug/L)	Qual	Antimony, Total (ug/L)	Qual	Antimony, Dissolved (ug/L)	Qual	Arsenic, Total (ug/L)	Qual	Arsenic, Dissolved (ug/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
RD01	NA	2	11RD01SB02	N or DN		NA	ND					ND					15																		
		4	11RD01SB04	N or DN			ND	0.657	J			20	10.3	J			ND	0.154																		
		6	11RD01SB06	N or DN			ND					9					ND																		
		8	11RD01SB08	N or DN			ND					ND					ND																		
		10	11RD01SB10	KRA			ND	0.352	J			ND	3.36	J			ND	0.064																		
		12	11RD01SB12	KRA			ND					6					ND																		
		14	11RD01SB14	KRA			ND	0.359	J			12	8.74	J			ND	0.063																		
		16	11RD01SB16	KRA	14.5		ND					7					ND																		
RD02	NA	2	11RD02SB02	Mixed RDCA, Soil, and T/WR		NA	7,094					3,654					188																		
		4	11RD02SB04	Mixed RDCA, Soil, and T/WR			1,979	1950	J			1,983	1880	J			172	94.5																		
		6	11RD02SB06	Mixed RDCA, Soil, and T/WR			1,405	868	J			945	1410	J			49	30.6																		
		8	11RD02SB08	Mixed RDCA, Soil, and T/WR			964					1,184					63																		
		10	11RD02SB10	Mixed RDCA, Soil, and T/WR	8		152	92	J			99	181	J			ND	1.78																		
		12	11RD02SB12	KRA			ND					9					ND																		
		14	11RD02SB14	KRA			ND					35					ND																		
RD03	NA	2	11RD03SB02	Mixed RDCA, Soil, and T/WR		NA	3,516					2,621					146																		
		4	11RD03SB04	Mixed RDCA, Soil, and T/WR			3,799					3,178					208																		
		6	11RD03SB06	Mixed RDCA, Soil, and T/WR			5,603	2710	J	4450		3,740	3510	J	2630		500	340		18																
		8	11RD03SB08	Mixed RDCA, Soil, and T/WR			1,216	844	J			1,047	1790	J			449	471																		
		10	11RD03SB10	Mixed RDCA, Soil, and T/WR			1,307	545	J			536	503	J			231	70.3																		
		12	11RD03SB12	KRA			291					124					15																		
		14	11RD03SB14	KRA	12		58					23					ND																		
		16	11RD03SB16	KRA			ND					24					ND																		
RD04	NA	2	11RD04SB02	Mixed RDCA, Soil, and T/WR		NA	1,057					445					41																		
		4	11RD04SB04	N			ND	149	J			41	40.7				ND	1.26	J																
		6	11RD04SB06	N			ND					15					ND																		
		8	11RD04SB08	N	7		467	95	J			28	102				ND	4.95	J																
		10	11RD04SB10	KRA and/or RDCA			ND					8					ND																		
		12	11RD04SB12	KRA and/or RDCA			ND	1.09				8	8.75				ND	0.137	J																
		14	11RD04SB14				ND					14					ND																		
RD05	MW32	2	11RD05SB02	N or DN			173					25					ND																		
		4	11RD05SB04	N or DN			ND					24					ND																		
		6	11RD05SB06	N or DN			55					45					ND																		
		8	11RD05SB08	N or DN			ND	1.33				ND	7.86				ND	0.283	J																
		10	11RD05SB10	N or DN			ND					61					ND																		
		12	11RD05SB12	N or DN			ND	18	J			26	36				ND	1.04	J																
		14	11RD05SB14	N or DN			ND					31					ND																		
		16	11RD05SB16	WB			ND	0.669				115	41.2				ND	1.25	J																
		18	NS	WB																														
		20	NS	B																														
		22	NS	B	16.5	14.0 - 24.0																														
		24	NS	B																														
		25	11RD05GW	B																		2.15	J	1.74	J	7.3		6.3		306		3.65		0.08	J
RD06	NA	2	11RD06SB02	DN with local fill		NA	205					192					31																		
		4	11RD06SB04	DN with local fill			ND	6.23				9	18.1				ND	14.1	J																
		6	11RD06SB06	DN with local fill			ND					18					ND																		
		8	11RD06SB08	N or DN			ND	11.3				24	42.5				ND	5.53	J																
		10	11RD06SB10	N or DN			ND					24					ND																		
		12	11RD06SB12	WB	11		NR	0.763				12	19.6				ND	1.61	J																
		14	11RD06SB14	WB | B			NS					NS					NS																		
RD07	NA	2	11RD07SB02	DN with local fill		NA	91					48					9																		
		4	11RD07SB04	DN with local fill			ND	4.96				15	11.1				ND	2.27	J																
		6	11RD07SB06	N or DN			ND					22					ND																		
		8	11RD07SB08	N or DN			ND					12					ND																		
		10	11RD07SB10	N or DN			ND	1.32				32	22.2				ND	1.94	J																
		12	11RD07SB12	B	11		ND	0.321				23	25.9				12	10.6	J																

Table F-10 Red Devil Creek Downstream Alluvial Area and Delta Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil														Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (ug/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (ug/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (ug/L)	Qual	Antimony, Total (ug/L)	Qual	Antimony, Dissolved (ug/L)	Qual	Arsenic, Total (ug/L)	Qual	Arsenic, Dissolved (ug/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
RD20	MW33	2	11RD20SB02	T/WR (road base)			1,413					1,137				48																			
		4	11RD20SB04	N			146					171				ND																			
		5	11RD20SB05	N			93					216				12																			
		6	11RD20SB06	N			ND	7.69				28	21.5			ND	3.89	J																	
		8	11RD20SB08	N			ND					23				ND																			
		10	11RD20SB10	N			ND					19				ND																			
		12	11RD20SB12	N	10.5		49					32				ND																			
		14	11RD20SB14	N		12.0 - 22.0	ND					36				ND																			
		16	11RD20SB16	N			NS					NS				NS																			
		18	11RD20SB18	WB			265	163	J			83	128			21	59.4	J																	
		20	11RD20SB20	WB			176	13.5		269	J	708	128		20	U	26	14.9	J	1.09															
		22	NS	B																															
		23.0	11RD20GW	B																	427	J	420	J	15.2		14.4		115		4.58		0.05	U

Notes:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
NA	Not applicable
ND	Not detected
NR	Not reported
NS	Not sampled
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
TD	Total depth
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence

Table F-11 Red Devil Creek Upstream Alluvial Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil														Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
RD13	MW12	2	11RD13SB02	RDCA	1		NR					15					ND																		
		4	11RD13SB04	RDCA			NR	2.81	J			ND	6.01				ND	0.367	J																	
		6	11RD13SB06	RDCA		4.0 - 14.0	NR	6.25	J	28.3	J	16	8.63		20	U	ND	0.287	J	0.4	U															
		8	11RD13SB08	RDCA			NR					14					ND																		
		10	11RD13SB10	RDCA			NR			52.2	J	28			20	UJ	ND			0.4	U															
		12	11RD13SB12	RDCA			NR					14					ND																		
		14	11RD13SB14	RDCA			NR	3.91	J			10	12.8				ND	3.92																		
		14	11RD13GW	RDCA																		0.505	J	0.522	J	13.5		13.9		54.1		1.14		0.05	U
		16	11RD13SB16	RDCA			NR					14					ND																		

Notes:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ND	Not detected
NR	Not reported
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.

Table F-12 Dolly Sluice Subsurface Soil

Station ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Soil														
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual
DS01	2	11DS01SB02	SO		ND					55					ND				
	4	11DS01SB04	SO		ND					251					39				
	6	11DS01SB06	SO		ND	11.6		42.5	J	628	1200		38	J	51	326	J	5.92	J
	8	11DS01SB08	SO		ND					235					16				
	10	11DS01SB10	SO	9	ND	11.4				197	234				13	48.2	J		
	12	11DS01SB12	SO		ND					144					22				
	14	11DS01SB14	KRA		ND					316					21				
	16	11DS01SB16	KRA		ND	1.4				11	13.3				ND	1.46	J		
DS02	2	11DS02SB02	SO		64					153					16				
	4	11DS02SB04	SO		78	31.5	J			186	360	J			17	133			
	6	11DS02SB06	SO		67					143					16				
	8	11DS02SB08	SO		ND					109					13				
	10	11DS02SB10	SO		96	122	J			165	205	J			27	16.4			
	12	11DS02SB12	KRA	10.5	ND					15					ND				
	14	11DS02SB14	KRA		ND	0.886	J			12	12	J			ND	0.168			

Notes:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ND	Not detected
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence

Table F-13 Rice Sluice Subsurface Soil

Station ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Soil														
					XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual
RS01	2	11RS01SB02	SO		209					66					ND				
	4	11RS01SB04	SO		137	24.7	J			30	54.7	J			ND	6.44			
	6	11RS01SB06	SO		258					99					10				
	8	11RS01SB08	SO		114	68.7	J			125	142	J			ND	27.9			
	10	11RS01SB10	SO	8	99					86					13				
	12	11RS01SB12	SO		128	25.8	J	87.6		78	50	J	20	U	19	7.44		0.4	U
	14	11RS01SB14	KRA		ND					14					ND				
RS02	2	11RS02SB02	SO		83					52					ND				
	4	11RS02SB04	SO		351	24.4	J			136	138	J			13	33.1			
	6	11RS02SB06	SO		89					101					11				
	8	11RS02SB08	SO		ND	34.5	J			86	93.4	J			ND	8.07			
	10	11RS02SB10	SO	9	81					70					ND				
	12	11RS02SB12	SO		71					60					ND				
	14	11RS02SB14	KRA		ND	1.17	J			13	8.01	J			ND	0.198			
	16	11RS02SB16	KRA		ND					ND					ND				

Notes:
For soil type descriptions see Table B-1, Appendix B.
XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
ND	Not detected
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence

Table F-14 Surface Mined Area Subsurface Soil

							Soil															Groundwater													
Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
MP41	MW29	2	11MP41SB02	DN			143					60					ND																		
		4	11MP41SB04	WB			ND	1.04	J			46	30.7	J			ND	2.07																	
		6	11MP41SB06	WB			ND	1.14	J	20	U	69	59.8	J	20	U	12	3.55		1.13															
		8	11MP41SB08	WB			NS					NS					NS																		
		10	NS	WB																															
		12	NS	B																															
		14	NS	B																															
		16	NS	B																															
		18	NS	B																															
		20	NS	B																															
		22	NS	B																															
		24	NS	B																															
		26	NS	B																															
		28	NS	B																															
		30	NS	B																															
		32	NS	B																															
		34	NS	B																															
		36	NS	B																															
		38	NS	B																															
		40	NS	B																															
		42	NS	B																															
		44	NS	B																															
		46	NS	B																															
		48	NS	B																															
		50	NS	B																															
		52	NS	B																															
		54	NS	B																															
		56	NS	B																															
		58	NS	B																															
		60	NS	B		59.0 - 69.0																													
		62	NS	B	61																														
		64	NS	B																															
		66	NS	B																															
		68	NS	B																															
		69	11MP41GW	B																		1.21		0.837		36.9		31.1		247		0.71	J	0.05	U
SM10	NA	2	11SM10SB02	DN (KG and loess)	None	NA	ND					164					11																		
		4	11SM10SB04	DN (KG and loess)			ND	2.49	J			86	200	J			14	11.8																	
		6	11SM10SB06	N (loess)			ND					97					ND																		
		8	11SM10SB08	N (loess) | WB			ND					141					ND																		
		10	11SM10SB10	WB			ND	6.15	J	20	U	7,267	6240	J	661		80	48.3		9.58															
		12	11SM10SB12	WB			ND	4.28	J			3,352	1690	J			47	17.9																	
		14	11SM10SB14	B			NS					NS					NS																		
SM11	NA	2	11SM11SB02	N or DN (loess)	None	NA	ND					6					ND																		
		4	11SM11SB04	N or DN (loess)			ND	0.25	J			11	8.67	J			ND	0.032																	
		6	11SM11SB06	N or DN (loess)			ND					ND					ND																		
		8	11SM11SB08	N or DN (loess)			ND					7					ND																		
		10	11SM11SB10	N or DN (loess)			ND					22					ND																		
		12	11SM11SB12	N or DN (loess)			ND					16					ND																		
		14	11SM11SB14	WB			ND	1.5	J			303	122	J			14	7.18																	
		16	11SM11SB16	WB			ND	1.43	J			350	261	J			ND	6.93																	
		18	11SM11SB18	WB			NS					NS					NS																		
SM31	MW30	2	11SM31SB02	WB			226					1,388					44																		
		4	11SM31SB04	WB			NS					NS					NS																		
		6	11SM31SB06	WB			ND	8.57	J	20	U	430	273	J	42	J	20	15.2		4.2															
		8	11SM31SB08	WB			NS					NS					NS																		
		10	NS	B																															
		12	NS	B																															
		14	NS	B																															
		16	NS	B																															
		18	NS	B																															
		20	NS	B																															
		22	NS	B																															
		24	NS	B																															
		26	NS	B																															
		28	NS	B																															
		30	NS	B																															
		32	NS	B																															
		34	NS	B																															
		36	NS	B																															
		38	NS	B																															
		40	NS	B																															

Table F-14 Surface Mined Area Subsurface Soil

Station ID	Monitoring Well ID	Depth (bottom of interval, feet bgs)	Sample ID	Soil Type	Groundwater Observed During Drilling (feet bgs)	Monitoring Well Screened Interval and 9/1/11 SWL	Soil														Groundwater															
							XRF Antimony (ppm)	Total Antimony (mg/kg)	Qual	SPLP Antimony (µg/L)	Qual	XRF Arsenic (ppm)	Total Arsenic (mg/kg)	Qual	SPLP Arsenic (µg/L)	Qual	XRF Mercury (ppm)	Total Mercury (mg/kg)	Qual	SPLP Mercury (µg/L)	Qual	Antimony Total (µg/L)	Qual	Antimony, Dissolved (µg/L)	Qual	Arsenic, Total (µg/L)	Qual	Arsenic, Dissolved (µg/L)	Qual	Mercury, Total (ng/L)	Qual	Mercury, Dissolved (ng/L)	Qual	Methyl Mercury (ng/L)	Qual
		42	NS	B																															
		44	NS	B		42.0 - 52.0																														
		46	NS	B	45																															
		48	NS	B																															
		50	NS	B																															
		52	2011 GW - NO SAMPLE	B																															

Notes:

For soil type descriptions see Table B-1, Appendix B.

XRF results are for non-dried samples.

Key:

bgs	Below ground surface
µg/L	Micrograms per liter
J	The analyte was detected. The associated result is estimated.
mg/kg	Milligrams per kilogram (dry)
NA	Not applicable
ND	Not detected
NS	Not sampled
ppm	Parts per million
Qual	Qualifier
SPLP	Synthetic precipitation leaching procedure
TCLP	Toxicity characteristic leaching procedure
U	The analyte was analyzed for but not detected. The value provided is reporting limit.
XRF	X-ray fluorescence