RCRA - Validated

303863

Table 6
Validated Analytical Data Summary Table - RCRA Characteristics
Superior Barrel and Drum Site
September 2013

RST 2 Sample ID		P001-TW-1001-1	P001-TW-1002-1	P001-TW-1003-1	P001-TW-1004-1	P001-TW-1005-1	P001-TW-1006-1	P001-TW-1007-1	P001-TW-1008-1	P001-TW-1009-1	P001-TW-1010-1	P001-TW-1011-1
Area		Area01	Area01	Area01	Area01	Area01	Area01	Area01	Area01	Area01	Area01	Area01
Sampling Date		9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste
	MDL/Unit											
Corrosivity (as pH)	pH	7.14	8.97	6.69	6.41	6.43	8.01	7.18	7.07	5.81	5.97	13.21
Flashpoint	°F	>212	180	>212	165	145	>212	>212	100	>212	130	>212
Ignitability	°C	-	-	-	-	-	-	-	-	-	-	-
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	30	18	19	32	32	30	26	32	14	ND	18

RST 2 Sample ID		P001-TW-1012-1	P001-TW-1013-1	P001-TW-1014-1	P001-TW-1015-1	P001-TW-1015-2	P001-DW-1016-1	P001-DW-1019-1	P001-DW-1024-1	P001-DW-2001-1	P001-DW-2003-1	P001-DW-2004-1
Area		Area01	Area01	Area01	Area01	Area01	Area01	Area01	Area01	Area02	Area02	Area02
Sampling Date		9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/23/2013	9/27/2013	9/27/2013	9/27/2013	9/20/2013	9/20/2013	9/20/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste *	Liquid Waste	Liquid Waste *
	MDL/Unit											
Corrosivity (as pH)	pH	6.44	4.68	8.7	9.57 J	9.37 J	5.08	4.92	3.83	4.18	12.78	8.08
Flashpoint	°F	98	92	115	98	82	68	70	70	-	138	-
Ignitability	°C	-	-	-	-	-	-	-	-	NO	-	NO
Cyanide, Reactive	0.050 mg/Kg	ND	ND	0.725	0.125	0.11	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	32	30	34	32	38	26	30	29	ND	ND	14

RST 2 Sample ID		P001-DW-2006-1	P001-DW-2006-2	P001-DW-2007-1	P001-DW-2011-1	P001-DW-2016-1	P001-DG-2020-1	P001-DW-2025-1	P001-DW-2034-1	P001-DW-2036-1	P001-DW-2041-1	P001-DW-2042-1
Area		Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02
Sampling Date		9/20/2013	9/20/2013	9/20/2013	9/20/2013	9/23/2013	9/24/2013	9/23/2013	9/24/2013	9/23/2013	9/23/2013	9/23/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Sludge Waste	Liquid Waste	Liquid Waste *	Liquid Waste	Liquid Waste *	Liquid Waste *
	MDL/Unit											
Corrosivity (as pH)	pH	8.17 J	8.86 J	6.67	6.18	9.48	13.21	7.97	4.27	8.89	7.61	4.58
Flashpoint	°F	172	145	>212.0	>212.0	80	92	90	-	88	-	-
Ignitability	°C	-	-	-	-	-	-	-	YES	-	YES	YES
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	0.737	ND	ND
Sulfide, Reactive	10 mg/Kg	13	14	13	11	37	38	35	38	37	38	37

RST 2 Sample ID		P001-DW-2046-1	P001-DW-2047-1	P001-DW-2048-1	P001-DW-2050-1	P001-DW-2051-1	P001-DW-2058-1	P001-DW-2059-1	P001-DW-2060-1	P001-DW-2062-1	P001-DW-2063-1	P001-DW-2064-1
Area		Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02
Sampling Date		9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/25/2013	9/25/2013	9/25/2013	9/25/2013	9/25/2013	9/23/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste
	MDL/Unit											
Corrosivity (as pH)	pH	4.14	4.53	10.07	6.37	6.82	4.46	11.97	6.19	12.19	6.33	5.53
Flashpoint	°F	82	80	78	79	78	78	92	78	80	78	>212
Ignitability	°C	-	-	-	-	-	-	-	-	-	-	-
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	0.279	ND	0.349	ND	0.122	ND	ND
Sulfide, Reactive	10 mg/Kg	120	40	37	40	37	37	120	42	43	40	21

Notes:

* These samples were collected as liquid waste samples, but were determined to be solidified by the laboratory and, therefore, the ignitability test was performed.

J - Indicates the reported value is an estimate.

ND - Indicates the analyte was analyzed for but not detected.

NO - Does not ignite.

YES - Ignites

MDL - Method detection limit.

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RST 2 Sample ID		P001-DW-2065-1	P001-DW-2067-1	P001-DW-2069-1	P001-DW-2073-1	P001-DW-2074-1	P001-DW-2076-1	P001-DW-2081-1	P001-DW-2086-1	P001-DG-2087-1	P001-DW-2090-1	P001-DW-2090-2
Area		Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area02
Sampling Date		9/25/2013	9/25/2013	9/23/2013	9/25/2013	9/25/2013	9/25/2013	9/23/2013	9/25/2013	9/25/2013	9/27/2013	9/27/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Sludge Waste	Liquid Waste	Liquid Waste
	MDL/Unit											
Corrosivity (as pH)	pH	5.11	4.96	5.31	5.35	3.94	4.91	5.27	5.87	4.59	5.76	5.81
Flashpoint	°F	76	78	185	88	76	76	>212	76	-	74	78
Ignitability	°C	-	-	-	-	-	-	-	-	YES	-	-
Cyanide, Reactive	0.050 mg/Kg	ND	ND	0.068	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	35	34	26	38	42	38	30	40	38	26	27

RST 2 Sample ID		P001-DW-2093-1	P001-DW-2094-1	P001-DW-2100-1	P001-DW-2112-1	P001-DW-2113-1	P001-TW-2115-1	P001-DW-2121-1	P001-DW-4006-1	P001-DW-5001-3	P001-DW-5002-3	P001-DW-5006-3
Area		Area02	Area02	Area02	Area02	Area02	Area02	Area02	Area04	Area05	Area05	Area05
Sampling Date		9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/24/2013	9/24/2013	9/24/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste
	MDL/Unit											
Corrosivity (as pH)	pH	5.72	6.28	6.01	6.64	7.08	7.87	6.16	5.88	6.61	6.17	8.14
Flashpoint	°F	76	76	74	76	76	74	76	78	76	76	108
Ignitability	°C	-	-	-	-	-	-	-	-	-	-	-
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	0.882	1.7	ND
Sulfide, Reactive	10 mg/Kg	29	38	30	32	37	40	38	30	43	37	34

RST 2 Sample ID		P001-DW-5006-4	P001-DW-5009-3	P001-DW-5013-3	P001-DW-5023-3	P001-DW-5024-3	P001-DW-5027-3	P001-DW-5029-3	P001-DW-6006-3	P001-DW-6009-3	P001-DW-6010-3	P001-DW-6011-3
Area		Area05	Area05	Area05	Area05	Area05	Area05	Area05	Area06	Area06	Area06	Area06
Sampling Date		9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/24/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste
	MDL/Unit											
Corrosivity (as pH)	pH	8.16	6.15	1.81	2.66	3.17	3.29	3.62	4	6.51	6.39	4.38
Flashpoint	°F	82	84	78	-	82	78	84	78	78	76	-
Ignitability	°C	-	-	-	NO	-	-	-	-	-	-	NO
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	29	42	38	46	37	42	38	35	40	46	42

RST 2 Sample ID		P001-DW-6017-3	P001-DW-6018-3	P001-DW-6021-3	P001-DW-6024-3	P001-DW-6035-1	P001-TW-6038-1	P001-TW-6038-2	P001-S-2001-1	P001-S-2002-1	P001-S-2003-1	P001-S-3001-1
Area		Area06	Area06	Area06	Area06	Area06	Area06	Area06	Area02	Area02	Area02	Area03
Sampling Date		9/24/2013	9/24/2013	9/24/2013	9/24/2013	9/20/2013	9/27/2013	9/27/2013	9/20/2013	9/26/2013	9/26/2013	9/20/2013
Sample Matrix		Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Liquid Waste	Soil	Soil	Soil	Soil
	MDL/Unit											
Corrosivity (as pH)	pH	10.22	12.26	13.08	8.07	5.04	7.9 J	8.21 J	5.33	6.47	6.24	4.54 J
Flashpoint	°F	80	80	78	88	>212.0	76	76	-	-	-	-
Ignitability	°C	-	-	-	-	-	-	-	NO	NO	NO	NO
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	37	43	42	38	14	40	38	16	32	40	14

Notes:

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September 2013

RST 2 Sample ID		P001-S-3001-2	P001-S-3002-1	P001-S-3003-1	P001-S-3004-1	P001-S-3005-1	P001-S-3006-1	P001-S-3007-1	P001-S-3008-1	P001-S-3009-1	P001-S-3010-1	P001-S-3011-1
Area		Area03	Area03	Area03	Area03	Area03	Area03	Area03	Area03	Area03	Area03	Area03
Sampling Date		9/20/2013	9/20/2013	9/20/2013	9/26/2013	9/26/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013	9/27/2013
Sample Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	MDL/Unit											
Corrosivity (as pH)	pH	5.42 J	6.23	5.66	6.19	6.42	6.51	6.73	6.4	6.53	5.36	4.77
Flashpoint	°F	-	-	-	-	-	-	-	-	-	NO	NO
Ignitability	°C	NO	NO	NO	NO	NO	NO	NO	NO	NO	-	-
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	13	13	11	38	38	40	38	34	41	42	46

RST 2 Sample ID		P001-S-3012-1	P001-S-3013-1	P001-S-4001-1	P001-S-4002-1	P001-S-4003-1	P001-S-5001-1	P001-S-5002-1	P001-S-5003-1	P001-S-5004-1	P001-S-5005-1	P001-S-6001-1
Area		Area03	Area03	Area04	Area04	Area04	Area05	Area05	Area05	Area05	Area05	Area06
Sampling Date		9/27/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/20/2013
Sample Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	MDL/Unit											
Corrosivity (as pH)	pH	6.28	6.21	6.96	7.94	7.03	7.62	7.26	7.13	7.25	6.24	5.71
Flashpoint	°F	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	-
Ignitability	°C	-	-	-	-	-	-	-	-	-	-	NO
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	48	46	29	27	40	45	41	38	43	46	14

RST 2 Sample ID		P001-S-6002-1	P001-S-6003-1	P001-S-6004-1	P001-S-6005-1	P001-S-6005-2	P001-S-6006-1	P001-S-6007-1	P001-S-6008-1	P001-S-7001-1	P001-S-7002-1	P001-S-7003-1
Area		Area06	Area06	Area06	Area06	Area06	Area06	Area06	Area06	Area07	Area07	Area07
Sampling Date		9/20/2013	9/20/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013	9/26/2013
Sample Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	MDL/Unit											
Corrosivity (as pH)	pH	5.55	12.96	7.58	6.97 J	6.85 J	7.45	6.88	5.71	8.07	7.22	7.17
Flashpoint	°F	-	-	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignitability	°C	NO	NO	-	-	-	-	-	-	-	-	-
Cyanide, Reactive	0.050 mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfide, Reactive	10 mg/Kg	16	13	45	43 J	62 J	61	62	30	24	18	13

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