

TABLE 1
Manganese Tailings Removal Tonnage Summary

Date	Tonnage	Average On-Site Truck Time (Minutes)
05/06/10	1,196.25	31.82
05/07/10	1,118.56	25.94
05/08/10	1,420.99	35.64
05/10/10	2,690.53	25.14
05/11/10	3,352.06	24.19
05/12/10	3,612.48	24.14
05/13/10	3,443.68	24.40
05/14/10	4,135.04	24.88
05/15/10	4,370.21	41.00
05/18/10	5,466.63	37.31
05/19/10	5,845.71	26.77
05/20/10	5,661.08	25.82
05/21/10	4,827.99	26.30
05/22/10	5,214.04	24.99
05/24/10	5,104.84	26.48
05/25/10	5,939.33	25.72
05/26/10	5,583.68	26.53
05/27/10	5,705.18	25.32
05/28/10	5,873.93	27.15
06/01/10	6,206.05	25.05
06/02/10	5,463.61	26.54
06/03/10	5,568.27	31.54
06/04/10	5,806.15	32.03
06/05/10	6,251.78	29.10
06/06/10	32.13	30.00
06/07/10	5,586.93	28.56
06/08/10	5,848.62	30.16
06/09/10	6,223.78	32.05
06/10/10	5,930.83	30.69
06/11/10	6,524.19	28.69
06/12/10	6,366.80	33.32
06/14/10	6,464.63	34.84
06/15/10	5,824.19	31.17
06/16/10	2,669.81	29.07
06/17/10	5,893.91	31.56
06/18/10	6,430.50	36.75
06/19/10	5,476.28	28.82
06/21/10	5,150.70	28.91
06/22/10	5,365.50	34.57
06/23/10	6,164.96	29.35
06/24/10	5,115.51	28.84
06/25/10	6,103.80	30.93
06/26/10	5,673.79	28.45
06/28/10	4,256.31	29.01
06/29/10	5,254.50	30.10
06/30/10	5,701.65	28.33



TABLE 1
Manganese Tailings Removal Tonnage Summary

Date	Tonnage	Average On-Site Truck Time (Minutes)
07/01/10	5,771.74	29.36
07/02/10	5,249.47	28.73
07/05/10	5,482.84	27.53
07/06/10	5,658.36	28.05
07/07/10	4,784.96	28.63
07/08/10	4,962.03	27.08
07/09/10	6,050.92	30.57
07/10/10	5,471.35	30.15
07/11/10	35.80	--
07/12/10	34.86	25.33
07/13/10	4,462.37	28.84
07/14/10	4,120.60	29.95
07/15/10	2,808.05	24.15
07/16/10	1,421.30	30.56
Summary	284,232.04	29.10

-- Data not provided by subcontractor.



TABLE 2
Confirmation Samples

Boring Identification	Sample Date	Grid	Sampling Depth	Sampling Identification	8290 Dioxin	6020 Arsenic	6020 Cobalt	6020 Manganese
SSAN7-06	9/7/10	N7	0-6"	SSAN7-06-0.0BPC		X	X	X
			6-12"	SSAN7-06-0.5BPC		Hold	Hold	Hold
SSAN7-07	9/7/10	N7	0-6"	SSAN7-07-0.0BPC		X	X	X
			6-12"	SSAN7-07-0.5BPC		Hold	Hold	Hold
SSAN8-03	9/7/10	N8	0-6"	SSAN8-03-0.0BPC		X	X	X
			6-12"	SSAN8-03-0.5BPC		Hold	Hold	Hold
SSAN8-04	9/7/10	N8	0-6"	SSAN8-04-0.0BPC		X	X	X
			6-12"	SSAN8-04-0.5BPC		Hold	Hold	Hold
SSAN8-05	9/7/10	N8	0-6"	SSAN8-05-0.0BPC		X	X	X
			6-12"	SSAN8-05-0.5BPC		Hold	Hold	Hold
SSAO7-04	9/8/10	O7	0-6"	SSAO7-04-0.0BPC		X	X	X
			6-12"	SSAO7-04-0.5BPC		Hold	Hold	Hold
SSAO7-05	9/17/10	O7	0-6"	SSAO7-05-0.0BPC		X	X	X
			6-12"	SSAO7-05-0.5BPC		Hold	Hold	Hold
SSAO7-06	9/27/10	O7	0-6"	SSAO7-06-0.0BPC	X	X	X	X
			6-12"	SSAO7-06-0.5BPC	Hold	Hold	Hold	Hold
SSAO7-07	9/17/10	O7	0-6"	SSAO7-07-0.0BPC	X	X	X	X
			6-12"	SSAO7-07-0.5BPC	Hold	Hold	Hold	Hold
SSAO7-08	9/17/10	O7	0-6"	SSAO7-08-0.0BPC		X	X	X
			6-12"	SSAO7-08-0.5BPC		Hold	Hold	Hold
SSAO8-04	9/8/10	O8	0-6"	SSAO8-04-0.0BPC		X	X	X
			6-12"	SSAO8-04-0.5BPC		Hold	Hold	Hold
SSAO8-05	9/27/10	O8	0-6"	SSAO8-05-0.0BPC	X	X	X	X
			6-12"	SSAO8-05-0.5BPC	Hold	Hold	Hold	Hold
SSAO8-06	9/17/10	O8	0-6"	SSAO8-06-0.0BPC		X	X	X
			6-12"	SSAO8-06-0.5BPC		Hold	Hold	Hold
SSAO8-07	9/8/10	O8	0-6"	SSAO8-07-0.0BPC	X	X	X	X
			6-12"	SSAO8-07-0.5BPC	Hold	Hold	Hold	Hold
SSAO8-08	9/27/10	O8	0-6"	SSAO8-08-0.0BPC		X	X	X
			6-12"	SSAO8-08-0.5BPC		Hold	Hold	Hold
SSAO8-09	9/17/10	O8	0-6"	SSAO8-09-0.0BPC		X	X	X
			6-12"	SSAO8-09-0.5BPC		Hold	Hold	Hold
SSAO8-10	9/27/10	O8	0-6"	SSAO8-10-0.0BPC		X	X	X
			6-12"	SSAO8-10-0.5BPC		Hold	Hold	Hold
SSAO8-11	9/27/10	O8	0-6"	SSAO8-11-0.0BPC		X	X	X
			6-12"	SSAO8-11-0.5BPC		Hold	Hold	Hold
SSAO8-12	9/17/10	O8	0-6"	SSAO8-12-0.0BPC		X	X	X
			6-12"	SSAO8-12-0.5BPC		Hold	Hold	Hold

Notes:

X = Sample was analyzed for the analyte listed



TABLE 3
Manganese Tailings Metals Soil Results

Task	Boring ID	Sample Name	Type	Start Depth(3)	End Depth	Sample Date	Analyte Name		Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (Total)	Chromium (VI)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Platinum	Potassium	Selenium	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc			
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
							2010 NDEP BCL (1)		100000	454	1.77 (2)	100000	2230	100000	560	100000	1230	337	22200	100000	800	100000	15100	341	5680	21800	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Phase B	RSA07	RSA07-9B	N	0.5	2	10/12/2009	9500	< 0.5 UJ	1.87 J-	154	0.525 J	< 10.5 U	< 0.04 U	< 10.5 U	8.76 J	< 0.19 U	8.9	20.7 J+	15400	9.8	8730 J	1330	0.024	0.3 J	19.9 J	< 0.1 U	2880	< 0.7 UJ	< 0.2 U	310	136	0.119	< 10.5 U	779	0.23	0.747	42.9 J+	34.5				
Phase B	RSA07	RSA07-19B	N	10	11.5	10/12/2009	9150	< 0.5 UJ	2.94 J-	167	0.593 J	< 10.5 U	< 0.04 U	10.5 J	< 0.19 U	7.5	18.3 J+	14100	8.3	9530 J	397	0.008 J	0.44	15 J	< 0.1 U	1770	< 0.7 UJ	< 0.2 U	473	208	0.119	< 10.5 U	716	0.22	1.39	44.4 J+	31.9					
Phase B	RSA07	RSA07-29B	N	20	21.5	10/12/2009	9930	< 2.1 UJ	3.83 J-	167	0.5 J	< 10.6 U	< 0.04 U	8.29 J	< 0.3 U	26.4	25.4 J+	16100	8.1	11000 J	2150	0.01 J	0.34	22.1 J	< 0.11 U	1960	< 0.7 UJ	< 0.2 U	713	320	0.099	< 10.6 U	782	0.23	1.79	50 J+	38.9					
Phase B	RSA07	RSA07-47B	N	36	37.5	10/12/2009	18300	< 2.2 UJ	17.3 J-	89.2	0.845 J	< 10.6 U	< 0.04 U	38.5 J	< 0.73	6.9	17.6 J+	15700	11.7	30700 J	357	0.006 J	0.8	14.4 J	< 0.11 U	5180	< 0.8 UJ	< 0.2 U	2550	118	0.302	< 11.1 U	724	0.4	2.78	40.2 J+	46.6					
Phase B	RSA08	RSA08-11.5B	N	-0.5	1	9/14/2009	11600	< 0.5 U	4.75	336	0.517	< 10.5 U	7 J	1.56	11	0.66	201	53.9	20000	12.6	8730	9010	0.028	0.9	98.4	0.008 J	2590	< 0.7 U	< 0.2 U	870	174	0.609	< 10.7 U	1180	0.74	1.17	59.4	90.4				
Phase B	RSA08	RSA08-21.5B	N	9.5	11	9/14/2009	12100	< 0.5 U	5.21	346	0.581	< 10.5 U	7.8 J	1.84	14.9	0.83	284	77.1	21000	12.2	10200	6280	0.027	1.97	164	0.01 J	2330	< 0.7 U	< 0.2 U	846	288	0.852	< 10.7 U	1030	0.7	2.48	54.1	154				
Phase B	RSA08	RSA08-43B	N	31	32.5	9/14/2009	11500	< 0.6 U	17.9	150	0.448	< 10.6 U	1.04	11.6	< 0.21 U	96.7	25	14800	8.5	19000	1280	0.014 J	1.41	55.7	0.007 J	2740	< 0.8 U	< 0.2 U	823	577	0.471	< 11.8 U	879	0.41	3.3	52.7	60.7					
Phase B	SA108	SA108-20B	N	1	2.5	10/16/2009	8850	< 2.1 UJ	2.16	215	0.521 J	< 10.6 U	0.19	12 J	< 0.21 U	19.8	24.8 J	15900	8.7	8460	967 J	0.018	0.72	19.4	0.007 J	3090	< 0.7 UJ	< 0.2 U	1910	150	0.98 J	< 10.6 U	907	0.4 J	0.793	47.2	42.2					
Phase B	SA108	SA108-30B	N	11	12.5	10/16/2009	8490	< 2.1 UJ	2.26	153	0.433 J	< 10.6 U	0.17	8.03 J	< 0.19 U	7	19.7 J	15400	6.8	9730	313 J	0.005 J	0.32	15.6	0.008 J	1900	1 J-	< 0.2 U	1400	167	0.105 J	< 10.6 U	818	0.2 J	1.21	46.5	31.4					
Phase B	SA108	SA108-45B	N	26	27.5	10/16/2009	7690	< 2.4 UJ	8.86	138	0.379 J	< 10.6 U	0.09 J	6.53 J	< 0.22 U	5.3	14.6 J	11700	6.9	9210	320 J	0.007 J	0.57	10.3	0.006 J	1960	< 0.8 UJ	< 0.2 U	879	372	0.071 J	< 11.9 U	636	0.27 J	1.85	40	25.1					
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	20100	0.9 J	38.2 J-	1500	1.02 J	29.4	2.79	52.7 J	4.23	784	272 J+	22500	98.7	12000 J	41900 J	0.115	9.08	274 J	< 0.1 U	3540	< 0.7 UJ	< 0.2 U	922	284	4.13	< 10 U	1130	23.9	1.69	84.8 J+	328					
PCS	SA137	SA137-3BPC	N	3	4	4/7/2010			12								170																									
PCS	SA137	SA137-4BPC	N	4	5	4/7/2010			60								67																									
PCS	SA137	SA137-5BPC	N	5	6	4/7/2010			89								140																									
PCS	SA137	SA137-5BPC_FD	FD	5	6	4/7/2010			74								130																									
PCS	SA137	SA137-6BPC	N	6	7	4/7/2010			130																																	
PCS	SA137	SA137-7BPC	N	7	8	4/7/2010			12																																	
PCS	SA137	SA137-8BPC	N	8	9	4/7/2010			7.6																																	
PCS	SA137	SA137-9BPC	N	9	10	4/7/2010			12								25 J+																									
PCS	SA137	SA137-10BPC	N	10	11	4/7/2010			6.6																																	
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	10700	< 0.5 UJ	4.88 J-	206	0.517 J	< 10.7 U	< 0.04 U	9.65 J	< 0.19 U	8.6	19.1 J+	16900	10	11500 J	461	0.03	0.32	15 J	< 0.11 U	3290	< 0.7 UJ	< 0.2 U	1810	177	0.095	< 10.7 U	908	0.37	1.68	56.1 J+	36.1					
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	14000	< 0.5 UJ	17.9 J-	103	0.569 J	25.2	< 0.04 U	44.1 J	0.55 J	5.3	14.3 J+	12100	7.3	38100 J	235	0.01 J	0.36	11.6 J	< 0.018 U	4220	< 0.8 UJ	< 0.2 U	2560	253	0.24	< 11.1 U	698	< 0.45 U	5.91	43.8 J+	34.1					
Phase B	SA139	SA139-0.5B	N	0.5	2	8/20/2009	19600	< 0.5 UJ	24.7 J-	1720 J-	0.932	232	1.31	16.3 J+	1.1	335	258	25000	115	9300	21600 J	0.08	7.34 J	175 J-	0.026 J	3560	< 0.8 UJ	0.5 J	1710	347	1.38	< 10.9 U	1000	9.34 J	1.61	76.2	233 J					
PCS	SA139	SA139-1BPC	N	1	2	4/13/2010			23								290																									
PCS	SA139	SA139-3BPC	N	3	4	4/13/2010			12																																	
PCS	SA139	SA139-4BPC	N	4	5	4/13/2010			3.8								14																									
PCS	SA139	SA139-5BPC	N	5	6	4/13/2010			3.3								11																									
Phase B	SA139	SA139-10B	N	10	11.5	8/20/2009	10200	< 0.5 UJ	6.85 J-	370 J-	0.59	36.4	0.34	11.3 J+	< 0.19 U	55.5	52.6	17400	31.3	10200	4050 J	0.031	1.44	37.9 J-	0.016 J	2350	< 0.7 UJ	< 0.2 U	653	207	0.398	< 10.6 U	913	1.32 J	1.11	50.8	58.7 J-					
Phase B	SA139	SA139009-25B	FD	25	26.5	8/20/2009	10900	< 0.5 UJ	4.53 J-	216 J-	0.484	11	0.17	10.2 J+	< 0.2 U	11.6	22.5	18300	13.1	13500	625 J	0.008 J	0.99 J	17.1 J-	0.014 J	2230	< 0.8 UJ	< 0.2 U	650	275	0.091	< 10.8 U	1060	0.23 J	1.84	56.5	38.1 J-					
Phase B	SA139	SA139-25B	N	25	26.5	8/20/2009	10300	< 0.5 UJ	4.12 J-	161 J-	0.48	< 10.8 U	0.22	9.59 J+	< 0.19 U	9.2	20.5	16000	8.5	12300	474 J	0.01 J	0.48 J	14.8 J-	0.011 J	2100	< 0.8 UJ	< 0.2 U	684	316	0.099	< 10.8 U	816	0.24 J	1.6	46.7	32.9 J-					
Phase B	SA139	SA139-35B	N	35	36.5	8/20/2009	10300	< 0.5 UJ	18.3 J-	192 J-	0.482	18.1	0.17	10.8 J+	< 0.23 U	8.7	17.4	13800	8.3	17800	500 J	0.01 J	1.06	13 J-	0.014 J	2570	< 0.7 UJ	< 0.2 U	891	1570	0.127	< 10.4 U	763	1.4 J	3.79	52.7	29.4 J-					
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	10700	< 0.5 UJ	1.57	200 J	0.435 J	< 10.6 U	< 0.04 U	6.63	< 0.19 U	8.4 J	19.7 J	16800 J	10.6 J	9630	461 J	0.032	0.95 J	15.9 J	< 0.11 U	6120	< 0.7 U	< 0.2 U	946	138	0.17 J	< 10.6 U	881	0.81 J	0.829	49 J	39.2					
Phase B	SA141	SA141-14B	N	0																																						

TABLE 3
Manganese Tailings Metals Soil Results

Analyte Name		Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (Total)	Chromium (VI)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Platinum	Potassium	Selenium	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc							
Units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							
2010 NDEP BCL (1)		100000	454	1.77 (2)	100000	2230	100000	560	100000	1230	337	42200	100000	800	100000	15100	341	5680	21800	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg								
Task	Boring ID	Sample Name	Type	Start Depth(3)	End Depth	Sample Date	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result							
PCS	SSA07-04	SSA07-04-0BPC	N	0	0.5	9/8/2010																																	
	SSA07-05	SSA07-05-0BPC	N	0	0.5	9/27/2010																																	
	SSA07-05	SSA07-05-9.5BPC	N	9.5	10.5	9/17/2010																																	
	SSA07-06	SSA07-06-0BPC	N	0	0.5	9/27/2010																																	
	SSA07-07	SSA07-07-0BPC	N	0	0.5	9/17/2010																																	
	SSA07-07	SSA07-07-0.5BPC	N	0.5	1	9/17/2010																																	
	SSA07-07	SSA07-07-1_01_BPC	N	1	2	10/27/2010																																	
	SSA07-07	SSA07-07-2_01_BPC	N	2	3	10/27/2010																																	
	SSA07-07	SSA07-07-3_01_BPC	N	3	4	10/27/2010																																	
	SSA07-07	SSA07-07-4_01_BPC	N	4	5	10/27/2010																																	
	SSA07-07	SSA07-07-5_01_BPC	N	5	6	10/27/2010																																	
	SSA07-08	SSA07-08-0BPC	N	0	0.5	9/17/2010																																	
	SSA07-08	SSA07-08-0.5BPC	N	0.5	1	9/17/2010																																	
	SSA07-08	SSA07-08-1_01_BPC	N	1	2	10/27/2010																																	
	SSA07-07	SSA07-08-2_01_BPC	N	2	3	10/27/2010																																	
	SSA07-08	SSA07-08-3_01_BPC	N	3	4	10/27/2010																																	
	SSA07-08	SSA07-08-4_01_BPC	N	4	5	10/27/2010																																	
	SSA07-08	SSA07-08-4_01_BPC_FD	FD	4	5	10/27/2010																																	
	SSA07-08	SSA07-08-5_01_BPC	N	5	6	10/27/2010																																	
	SSA08-04	SSA08-04-0BPC	N	0	0.5	9/8/2010																																	
	SSA08-05	SSA08-05-0BPC	N	0	0.5	9/27/2010																																	
	SSA08-05	SSA08-05-9.5BPC	N	9.5	10.5	9/17/2010																																	
	SSA08-05	SSA08-05-9.5BPC_FD	N	9.5	10.5	9/17/2010																																	
	SSA08-06	SSA08-06-0BPC	N	0	0.5	9/17/2010																																	
	SSA08-06	SSA08-06-0.5BPC	N	0.5	1	9/17/2010																																	
	SSA08-06	SSA08-06-1_01_BPC	N	1	2	10/27/2010																																	
	SSA08-06	SSA08-06-2_01_BPC	N	2	3	10/27/2010																																	
	SSA08-06	SSA08-06-3_01_BPC	N	3	4	10/27/2010																																	
	SSA08-06	SSA08-06-4_01_BPC	N	4	5	10/27/2010																																	
	SSA08-06	SSA08-06-5_01_BPC	N	5	6	10/27/2010																																	
	SSA08-07	SSA08-07-0BPC	N	0	0.5	9/8/2010																																	
	SSA08-08	SSA08-08-0BPC	N	0	0.5	9/27/2010																																	
	SSA08-08	SSA08-08-9.5BPC	N	9.5	10.5	9/17/2010																																	
	SSA08-09	SSA08-09-0BPC	N	0	0.5	9/17/2010																																	
	SSA08-09	SSA08-09-0.5BPC	N	0.5	1	9/17/2010																																	
	SSA08-09	SSA08-09-1_01_BPC	N	1	2	10/27/2010																																	
	SSA08-09	SSA08-09-2_01_BPC	N	2	3	10/27/2010																																	
	SSA08-09	SSA08-09-3_01_BPC	N	3	4	10/27/2010																																	
	SSA08-09	SSA08-09-4_01_BPC	N	4	5	10/27/2010																																	
	SSA08-09	SSA08-09-5_01_BPC	N	5	6	10/27/2010																																	
	SSA08-09	SSA08-09-5_01_BPC_FD	FD	5	6	10/27/2010																																	
	SSA08-10	SSA08-10-0BPC	N	0	0.5	9/27/2010																																	
	SSA08-11	SSA08-11-0BPC	N	0	0.5	9/27/2010																																	
	SSA08-12	SSA08-12-0BPC	N	0	0.5	9/17/2010																																	
	SSA08-12	SSA08-12-0BPC_FD	N	0	0.5	9/17/2010																																	
	SSA08-13	SSA08-13-1_01_BPC	N	1	2	11/2/2010																																	
	SSA08-13	SSA08-13-2_01_BPC	N	2	3	11/2/2010																																	
	SSA08-13	SSA08-13-3_01_BPC	N	3	4	11/2/2010																																	
	SSA08-13	SSA08-13-4_01_BPC	N	4	5	11/2/2010																																	
	SSA08-13	SSA08-13-5_01_BPC	N	5	6	11/2/2010																																	
	SSA08-14	SSA08-14-1_01_BPC	N	1	2	11/2/2010																																	
	SSA08-14	SSA08-14-2_01_BPC	N	2	3	11/2/2010																																	
	SSA08-14	SSA08-14-3_01_BPC	N	3	4	11/2/2010																																	
	SSA08-14	SSA08-14-3_01_BPC_FD	N	3	4	11/2/2010																																	
	SSA08-14	SSA08-14-4_01_BPC	N	4	5	11/2/2010																																	
	SSA08-14	SSA08-14-5_01_BPC	N	5	6	11/2/2010																																	

TABLE 4
Manganese Tailings SVOCs Soil Results

								Analyte Name	1,4-Dioxane	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
								Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
								NDEP 2010 MIN BCL (1)	174	--	2350	147	9060	2.34
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	Result	
Phase B	RSA07	RSA07-9B	N	0.5	2	10/12/2009	Y	< 0.0052 U	< 0.00059 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.0006 U	
Phase B	RSA07	RSA07-19B	N	10	11.5	10/12/2009	Y	< 0.0052 U	< 0.00059 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.0006 U	
Phase B	RSA07	RSA07-29B	N	20	21.5	10/12/2009	Y	< 0.0052 U	< 0.0006 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.00061 U	
Phase B	RSA07	RSA07-47B	N	36	37.5	10/12/2009	Y	< 0.0076 U	< 0.00087 U	< 0.0016 U	< 0.0012 U	< 0.0019 U	< 0.00089 U	
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	< 0.005 U	0.002 J	< 0.001 U	< 0.00074 U	< 0.0012 U	0.0051 J	
PCS	SA137	SA137-3BPC	N	3	4	4/7/2010	Y	< 0.072 U	< 0.021 U	< 0.011 U	< 0.019 U	< 0.019 U	< 0.022 U	
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	< 0.0053 U	< 0.0006 U	< 0.0011 U	< 0.00079 U	< 0.0013 U	< 0.00061 U	
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	< 0.0066 U	< 0.00075 U	< 0.0014 U	< 0.00098 U	< 0.0016 U	< 0.00076 U	
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	< 0.0052 UJ	< 0.00059 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.00061 U	
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	< 0.0052 UJ	< 0.00059 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.0006 U	
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	< 0.0053 UJ	< 0.00061 U	< 0.0011 U	< 0.00079 U	< 0.0013 U	< 0.00062 U	
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	< 0.0053 UJ	< 0.00061 U	< 0.0011 U	< 0.00079 U	< 0.0013 U	< 0.00062 U	
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	< 0.0052 UJ	< 0.00059 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.0006 U	
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	< 0.0052 UJ	< 0.0006 U	< 0.0011 U	< 0.00078 U	< 0.0013 U	< 0.00061 U	
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	< 0.0053 UJ	< 0.0006 U	< 0.0011 U	< 0.00079 U	< 0.0013 U	< 0.00061 U	
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	< 0.0053 U	< 0.0006 U	< 0.0011 U	< 0.00079 U	< 0.0013 U	0.0011 J	
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	< 0.0053 U	< 0.0006 U	< 0.0011 U	< 0.00079 U	< 0.0013 U	< 0.00061 U	
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	< 0.0053 U	< 0.00061 U	< 0.0011 U	< 0.0008 U	< 0.0013 U	< 0.00062 U	
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	< 0.0053 U	< 0.00061 U	< 0.0011 U	< 0.0008 U	< 0.0013 U	< 0.00062 U	
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	< 0.0059 U	< 0.00067 U	< 0.0012 U	< 0.00088 U	< 0.0014 U	< 0.00068 U	
PCS	SSAN7-06	SSAN7-06-OBPC	N	0	0.5	9/7/2010	N	< 0.065	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAN7-07	SSAN7-07-OBPC	N	0	0.5	9/7/2010	N	< 0.065	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAN8-03	SSAN8-03-OBPC	N	0	0.5	9/7/2010	N	< 0.067	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAN8-04	SSAN8-04-OBPC	N	0	0.5	9/7/2010	N	< 0.067	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAN8-05	SSAN8-05-OBPC	N	0	0.5	9/7/2010	N	< 0.064	< 0.018	< 0.01	< 0.016	< 0.016	0.023	
PCS	SSAO7-04	SSAO7-04-OBPC	N	0	0.5	9/8/2010	N	< 0.067	< 0.019	< 0.011	< 0.017	< 0.017	< 0.02	
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	N	< 0.064	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAO7-08	SSAO7-08-OBPC	N	0	0.5	9/17/2010	N	< 0.27	< 0.077	< 0.042	< 0.069	< 0.069	< 0.082	
PCS	SSAO8-04	SSAO8-04-OBPC	N	0	0.5	9/8/2010	N	< 0.067	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAO8-06	SSAO8-06-OBPC	N	0	0.5	9/17/2010	N	< 0.074	< 0.021	< 0.012	< 0.019	< 0.019	0.028	
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	N	< 0.067	< 0.019	< 0.01	< 0.017	< 0.017	< 0.02	
PCS	SSAO8-09	SSAO8-09-OBPC	N	0	0.5	9/17/2010	N	< 0.068	< 0.019	< 0.011	< 0.017	0.031	0.15	
PCS	SSAO8-12	SSAO8-12-OBPC	N	0	0.5	9/17/2010	N	< 0.067	0.024	0.03	< 0.017	< 0.017	< 0.02	
PCS	SSAO8-12	SSAO8-12-OBPC_FD	N	0	0.5	9/17/2010	N	< 0.066	0.1	0.057	< 0.017	< 0.017	< 0.02	

Notes:

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- BCL: Basic comparison level
- FD: Field duplicate
- J: Indicates that the result is less than the method reporting limit but greater than the method detection limit and is therefore an estimated quantity
- mg/kg: milligrams per kilogram
- NDEP: Nevada Division of Environmental Protection
- U: Indicates that the result is less than the method detection limit
- Soil sample excavated.
- bold** = Exceeds the NDEP BCL
- (1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.
- (2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 4
Manganese Tailings SVOCs Soil Results

Analyte Name								Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(2-Ethylhexyl)phthalate
Units								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NDEP 2010 MIN BCL (1)								0.234	2.34	34100	23.4	137
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.0011 U	< 0.0018 U	< 0.0019 U	< 0.0013 U	< 0.2 U
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	0.0034 J	0.0075	0.0051 J	0.0085	< 0.13 U
PCS	SA137	SA137-3BPC	N	3	4	4/7/2010	Y	< 0.022 U	< 0.029 U	< 0.017 U	< 0.044 U	0.11 J
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	< 0.00072 U	< 0.0012 U	< 0.0013 U	< 0.00088 U	< 0.14 U
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	< 0.00089 U	< 0.0015 U	< 0.0016 U	< 0.0011 U	< 0.18 U
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	< 0.00072 U	< 0.0012 U	< 0.0013 U	< 0.00089 U	< 0.14 U
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	< 0.00072 U	< 0.0012 U	< 0.0013 U	< 0.00089 U	< 0.14 U
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00087 U	< 0.14 U
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	< 0.00072 U	< 0.0012 U	< 0.0013 U	< 0.00088 U	< 0.14 U
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	< 0.00072 U	< 0.0012 U	< 0.0013 U	< 0.00088 U	< 0.14 U
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	< 0.00071 U	< 0.0012 U	< 0.0013 U	< 0.00088 U	< 0.14 U
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	< 0.00073 U	< 0.0013 U	< 0.0013 U	< 0.00089 U	< 0.14 U
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	< 0.00072 U	< 0.0012 U	< 0.0013 U	< 0.00089 U	< 0.14 U
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	< 0.0008 U	< 0.0014 U	< 0.0015 U	< 0.00098 U	< 0.16 U
PCS	SSAN7-06	SSAN7-06-OBPC	N	0	0.5	9/7/2010	N	< 0.02	< 0.026	< 0.016	< 0.04	< 0.046
PCS	SSAN7-07	SSAN7-07-OBPC	N	0	0.5	9/7/2010	N	< 0.02	< 0.026	< 0.016	< 0.04	< 0.045
PCS	SSAN8-03	SSAN8-03-OBPC	N	0	0.5	9/7/2010	N	< 0.02	< 0.027	< 0.016	< 0.041	< 0.047
PCS	SSAN8-04	SSAN8-04-OBPC	N	0	0.5	9/7/2010	N	< 0.02	< 0.026	< 0.016	< 0.04	< 0.046
PCS	SSAN8-05	SSAN8-05-OBPC	N	0	0.5	9/7/2010	N	< 0.019	0.035	0.016	< 0.039	0.4
PCS	SSAO7-04	SSAO7-04-OBPC	N	0	0.5	9/8/2010	N	< 0.02	< 0.027	< 0.016	< 0.041	< 0.047
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	N	< 0.02	< 0.026	< 0.016	< 0.039	0.11
PCS	SSAO7-08	SSAO7-08-OBPC	N	0	0.5	9/17/2010	N	< 0.082	0.12	< 0.065	< 0.16	0.67
PCS	SSAO8-04	SSAO8-04-OBPC	N	0	0.5	9/8/2010	N	< 0.02	< 0.027	< 0.016	< 0.041	< 0.047
PCS	SSAO8-06	SSAO8-06-OBPC	N	0	0.5	9/17/2010	N	0.076	0.066	0.034	< 0.045	0.35
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	N	< 0.02	< 0.027	< 0.016	< 0.041	< 0.047
PCS	SSAO8-09	SSAO8-09-OBPC	N	0	0.5	9/17/2010	N	0.21	0.41	0.2	< 0.041	0.22
PCS	SSAO8-12	SSAO8-12-OBPC	N	0	0.5	9/17/2010	N	< 0.02	< 0.026	< 0.016	< 0.04	0.098
PCS	SSAO8-12	SSAO8-12-OBPC_FD	N	0	0.5	9/17/2010	N	< 0.02	< 0.026	< 0.016	< 0.04	0.11

Notes:

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- FD: Field duplicate
- J: Indicates that the result is less than the method reporting limit but greater than the method detection limit and is therefore an estimated quantity
- mg/kg: milligrams per kilogram
- NDEP: Nevada Division of Environmental Protection
- U: Indicates that the result is less than the method detection limit
- Soil sample excavated.
- bold** = Exceeds the NDEP BCL
- (1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.
- (2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 4
Manganese Tailings SVOCs Soil Results

Analyte Name								Butyl benzyl phthalate	Chrysene	Dibenz(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate
Units								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NDEP 2010 MIN BCL (1)								240	234	0.234	100000	100000
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.0025 U	0.004 J	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.0036 U	< 0.0016 U	< 0.0012 U	< 0.19 U	< 0.0014 U
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	< 0.0024 U	0.014	< 0.0008 U	< 0.12 U	< 0.0009 U
PCS	SA137	SA137-3BPC	N	3	4	4/7/2010	Y	< 0.047 U	< 0.029 U	< 0.021 U	< 0.028 U	< 0.025 U
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.001 U
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	< 0.0031 U	< 0.0013 U	< 0.0011 U	< 0.16 U	< 0.0012 U
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	0.0039 J	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.001 U
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.001 U
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	< 0.0025 U	0.0022 J	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	0.0029 J	0.0026 J	< 0.0008 U	< 0.13 U	< 0.001 U
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	0.0043 J	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.0009 U
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	< 0.0025 U	0.0011 J	< 0.0008 U	< 0.13 U	< 0.001 U
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	< 0.0025 U	< 0.0011 U	< 0.0008 U	< 0.13 U	< 0.001 U
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	< 0.0028 U	< 0.0012 U	< 0.0009 U	< 0.14 U	< 0.0011 U
PCS	SSAN7-06	SSAN7-06-OBPC	N	0	0.5	9/7/2010	N	< 0.043	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAN7-07	SSAN7-07-OBPC	N	0	0.5	9/7/2010	N	< 0.042	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAN8-03	SSAN8-03-OBPC	N	0	0.5	9/7/2010	N	< 0.044	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAN8-04	SSAN8-04-OBPC	N	0	0.5	9/7/2010	N	< 0.043	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAN8-05	SSAN8-05-OBPC	N	0	0.5	9/7/2010	N	0.042	0.036	< 0.018	< 0.025	0.055
PCS	SSAO7-04	SSAO7-04-OBPC	N	0	0.5	9/8/2010	N	< 0.044	< 0.028	< 0.019	< 0.027	< 0.023
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	N	< 0.042	< 0.026	< 0.019	< 0.025	0.054
PCS	SSAO7-08	SSAO7-08-OBPC	N	0	0.5	9/17/2010	N	< 0.18	< 0.11	< 0.077	< 0.11	0.29
PCS	SSAO8-04	SSAO8-04-OBPC	N	0	0.5	9/8/2010	N	< 0.044	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAO8-06	SSAO8-06-OBPC	N	0	0.5	9/17/2010	N	< 0.048	0.054	< 0.021	< 0.029	0.069
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	N	< 0.044	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAO8-09	SSAO8-09-OBPC	N	0	0.5	9/17/2010	N	< 0.044	0.28	< 0.019	< 0.027	0.068
PCS	SSAO8-12	SSAO8-12-OBPC	N	0	0.5	9/17/2010	N	< 0.043	< 0.027	< 0.019	< 0.026	< 0.023
PCS	SSAO8-12	SSAO8-12-OBPC_FD	N	0	0.5	9/17/2010	N	< 0.043	< 0.027	< 0.019	< 0.026	0.027

Notes:

- < : Not detected at or above the indicated laboratory method reporting limit
- BCL: Basic comparison level
- FD: Field duplicate
- J: Indicates that the result is less than the method reporting limit but greater than the method detection limit and is therefore an estimated quantity
- mg/kg: milligrams per kilogram
- NDEP: Nevada Division of Environmental Protection
- U: Indicates that the result is less than the method detection limit
- Soil sample excavated.
- bold** = Exceeds the NDEP BCL
- (1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.
- (2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 4
Manganese Tailings SVOCs Soil Results

Analyte Name								Di-N-Butyl phthalate	Di-N-Octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Indeno(1,2,3-cd)pyrene
Units								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NDEP 2010 MIN BCL (1)								68400	--	24400	3440	1.2	2.34
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	Result
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	0.13 J+	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.0009 U
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.088 U	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.0009 U
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.035 U	< 0.0012 U	0.009	< 0.0007 U	< 0.0009 U	< 0.0009 U
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.074 U	< 0.0017 U	< 0.0022 U	< 0.0011 U	0.014	< 0.0014 U
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	0.057 J+	< 0.0011 U	0.022	< 0.0007 U	3.6	0.0044 J
PCS	SA137	SA137-3BPC	N	3	4	4/7/2010	Y	< 0.032 U	< 0.016 U	< 0.039 U	< 0.02 U	0.24 J	< 0.024 U
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	< 0.036 U	< 0.0012 U	< 0.0015 U	< 0.0007 U	0.0058 J	< 0.0009 U
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	< 0.044 U	< 0.0015 U	< 0.0019 U	< 0.0009 U	< 0.0012 U	< 0.0012 U
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	< 0.035 U	< 0.0012 U	< 0.0015 U	< 0.0007 U	0.011	< 0.0009 U
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	< 0.035 U	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.0009 U
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	< 0.049 UJ	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.001 U
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	< 0.036 U	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.001 U
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	< 0.044 UJ	< 0.0012 U	0.0018 J	< 0.0007 U	0.029	< 0.0009 U
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	< 0.07 UJ	< 0.0012 U	0.0022 J	< 0.0007 U	0.036	< 0.0009 U
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	< 0.07 UJ	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.0009 U
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	0.063 J	< 0.0012 U	0.0058 J	< 0.0007 U	< 0.0009 U	< 0.001 U
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	0.054 J	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.0009 U
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	0.046 J	< 0.0012 U	0.0022 J	< 0.0007 U	0.0048 J	< 0.001 U
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	< 0.036 U	< 0.0012 U	< 0.0015 U	< 0.0007 U	< 0.0009 U	< 0.001 U
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	< 0.039 U	< 0.0013 U	< 0.0017 U	< 0.0008 U	< 0.001 U	< 0.0011 U
PCS	SSAN7-06	SSAN7-06-OBPC	N	0	0.5	9/7/2010	N	< 0.029	< 0.014	< 0.036	< 0.018	< 0.029	< 0.022
PCS	SSAN7-07	SSAN7-07-OBPC	N	0	0.5	9/7/2010	N	< 0.029	< 0.014	< 0.036	< 0.018	< 0.029	< 0.022
PCS	SSAN8-03	SSAN8-03-OBPC	N	0	0.5	9/7/2010	N	< 0.029	< 0.015	< 0.037	< 0.018	< 0.029	< 0.022
PCS	SSAN8-04	SSAN8-04-OBPC	N	0	0.5	9/7/2010	N	< 0.029	< 0.015	< 0.036	< 0.018	< 0.029	< 0.022
PCS	SSAN8-05	SSAN8-05-OBPC	N	0	0.5	9/7/2010	N	< 0.028	< 0.014	0.044	< 0.017	< 0.028	< 0.021
PCS	SSAO7-04	SSAO7-04-OBPC	N	0	0.5	9/8/2010	N	< 0.03	< 0.015	< 0.037	< 0.018	< 0.03	< 0.022
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	N	< 0.028	< 0.014	< 0.035	< 0.018	0.057	0.05
PCS	SSAO7-08	SSAO7-08-OBPC	N	0	0.5	9/17/2010	N	< 0.12	< 0.059	< 0.15	< 0.073	0.56	0.22
PCS	SSAO8-04	SSAO8-04-OBPC	N	0	0.5	9/8/2010	N	< 0.029	< 0.015	< 0.037	< 0.018	< 0.029	< 0.022
PCS	SSAO8-06	SSAO8-06-OBPC	N	0	0.5	9/17/2010	N	< 0.033	< 0.016	0.062	< 0.02	0.73	< 0.025
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	N	< 0.029	0.07	< 0.036	< 0.018	< 0.029	< 0.022
PCS	SSAO8-09	SSAO8-09-OBPC	N	0	0.5	9/17/2010	N	< 0.03	< 0.015	0.32	< 0.018	0.35	0.16
PCS	SSAO8-12	SSAO8-12-OBPC	N	0	0.5	9/17/2010	N	< 0.029	< 0.015	< 0.036	< 0.018	< 0.029	< 0.022
PCS	SSAO8-12	SSAO8-12-OBPC_FD	N	0	0.5	9/17/2010	N	< 0.029	< 0.015	< 0.036	< 0.018	< 0.029	< 0.022

Notes:
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 BCL: Basic comparison level
 FD: Field duplicate
 J: Indicates that the result is less than the method reporting limit but greater than the method detection limit and is therefore an estimated quantity
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 (1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.
 (2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 4
Manganese Tailings SVOCs Soil Results

Analyte Name								Naphthalene	Nitrobenzene	Octachlorostyrene	Phenanthrene	Pyrene	Pyridine
Units								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NDEP 2010 MIN BCL (1)								15.6	13.6	--	24.5	19300	667
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	Result
Phase B	RSA07	RSA07-9B	N	0.5	2	10/12/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.028 U
Phase B	RSA07	RSA07-19B	N	10	11.5	10/12/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.028 U
Phase B	RSA07	RSA07-29B	N	20	21.5	10/12/2009	Y	0.004 J	< 0.0019 U	< 0.0037 U	0.02	0.0054 J	< 0.028 U
Phase B	RSA07	RSA07-47B	N	36	37.5	10/12/2009	Y	< 0.0013 U	< 0.0028 U	< 0.0054 U	< 0.0028 U	< 0.0015 U	< 0.041 U
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	0.0024 J	< 0.0018 U	0.53	0.015	0.013	< 0.027 U
PCS	SA137	SA137-3BPC	N	3	4	4/7/2010	Y	< 0.034 U	< 0.024 U	0.24 J	< 0.019 U	< 0.013 U	< 0.14 U
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.029 U
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	< 0.0012 U	< 0.0024 U	< 0.0046 U	< 0.0024 U	< 0.0013 U	< 0.036 U
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.028 U
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.028 U
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0038 U	< 0.0019 U	< 0.0011 U	< 0.029 U
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0038 U	< 0.0019 U	< 0.0011 U	< 0.029 U
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	0.0021 J	0.0018 J	< 0.028 U
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	< 0.0009 U	< 0.0019 U	0.0075	0.0029 J	0.0018 J	< 0.028 U
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.029 U
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	0.0015 J	< 0.0019 U	< 0.0038 U	0.0084	0.0036 J	< 0.029 U
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0037 U	< 0.0019 U	< 0.0011 U	< 0.029 U
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0038 U	0.0033 J	0.0015 J	< 0.029 U
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	< 0.0009 U	< 0.0019 U	< 0.0038 U	< 0.0019 U	< 0.0011 U	< 0.029 U
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	< 0.001 U	< 0.0021 U	< 0.0041 U	< 0.0021 U	< 0.0012 U	< 0.032 U
PCS	SSAN7-06	SSAN7-06-OBPC	N	0	0.5	9/7/2010	N	< 0.031	< 0.022	< 0.056	< 0.017	< 0.012	< 0.13
PCS	SSAN7-07	SSAN7-07-OBPC	N	0	0.5	9/7/2010	N	< 0.031	< 0.022	< 0.056	< 0.017	< 0.012	< 0.13
PCS	SSAN8-03	SSAN8-03-OBPC	N	0	0.5	9/7/2010	N	< 0.032	< 0.022	< 0.058	< 0.017	0.021	< 0.13
PCS	SSAN8-04	SSAN8-04-OBPC	N	0	0.5	9/7/2010	N	< 0.031	< 0.022	< 0.058	< 0.017	< 0.012	< 0.13
PCS	SSAN8-05	SSAN8-05-OBPC	N	0	0.5	9/7/2010	N	< 0.03	< 0.021	< 0.055	0.049	0.049	< 0.13
PCS	SSAO7-04	SSAO7-04-OBPC	N	0	0.5	9/8/2010	N	< 0.032	< 0.022	< 0.058	< 0.017	< 0.012	< 0.13
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	N	< 0.03	< 0.021	< 0.056	< 0.017	0.012	< 0.13
PCS	SSAO7-08	SSAO7-08-OBPC	N	0	0.5	9/17/2010	N	< 0.13	< 0.09	< 0.23	< 0.069	0.06	< 0.53
PCS	SSAO8-04	SSAO8-04-OBPC	N	0	0.5	9/8/2010	N	< 0.031	< 0.022	< 0.058	< 0.017	< 0.012	< 0.13
PCS	SSAO8-06	SSAO8-06-OBPC	N	0	0.5	9/17/2010	N	< 0.035	< 0.025	< 0.19	0.035	0.051	< 0.15
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	N	< 0.031	< 0.022	< 0.058	< 0.017	< 0.012	< 0.13
PCS	SSAO8-09	SSAO8-09-OBPC	N	0	0.5	9/17/2010	N	0.036	< 0.023	0.1	0.16	0.29	< 0.13
PCS	SSAO8-12	SSAO8-12-OBPC	N	0	0.5	9/17/2010	N	< 0.031	< 0.022	< 0.058	0.017	< 0.012	< 0.13
PCS	SSAO8-12	SSAO8-12-OBPC_FD	N	0	0.5	9/17/2010	N	0.25	< 0.022	< 0.057	< 0.017	< 0.012	< 0.13

Notes:

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- J: Indicates that the result is less than the method reporting limit but greater than the method detection limit and is therefore an estimated quantity
- mg/kg: milligrams per kilogram
- NDEP: Nevada Division of Environmental Protection
- U: Indicates that the result is less than the method detection limit
- Soil sample excavated.
- bold** = Exceeds the NDEP BCL
- (1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.
- (2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 5
Manganese Tailings Dioxin/Furans Soil Results

									Analyte Name	1,2,3,4,5,6,7,8- Octachloro- dibenzofuran	1,2,3,4,5,6,7,8- Octachloro- dibenzo-p-dioxin	1,2,3,4,6,7,8- Heptachloro- dibenzofuran	1,2,3,4,6,7,8- Heptachlorodi- benzo-p-dioxin	1,2,3,4,7,8,9- Heptachloro- dibenzofuran	1,2,3,4,7,8- Hexachloro- dibenzofuran
									Units	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2010 NDEP BCL (1)									--	--	--	--	--	--	
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Units	Validated	Result	Result	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009		Y	7.2 J	2.8 J	1.6 JK	< 2.6 U	< 2.6 U	< 2.6 U	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	pg/g	Y	110 J	60 J	43 J	6.2 J	19 J	17	
Phase B	SA108	SA108-20B	N	1	2.5	10/16/2009	pg/g	Y	11	28	3	5.4	1 JK	< 2.6 U	
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	pg/g	Y	7000	230	2000	150	930	930	
Phase B	SA139	SA139-0.5B	N	0.5	2	8/20/2009	pg/g	Y	1440 J	130	499	61.6	250	312	
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	pg/g	Y	5.4 J	< 1.1 U	2.2 J	0.42 J	1 J	1.5 J	
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	pg/g	Y	13 J	< 1.1 U	5	0.36 JK	1.7 J	2.2 J	
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	pg/g	Y	1400 J	43 J	510 J	40 J	190 J	200 J	
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	pg/g	Y	610 J	15 J	220 J	16 J	99 J	93 J	
Phase B	SA143	SA143-24B	N	2	3.5	10/15/2009	pg/g	Y	< 5.4 UJ	< 2.6 UJ	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	
Phase B	SA149	SA149-22B	N	-6	-4.5	10/21/2009	pg/g	Y	92	5.4	44	3.9 JK	20	25	
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	pg/g	Y	< 5.2 U	< 0.95 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	pg/g	Y	9200	400	4300	320	2200	2000	
	SSAO7-06	SSAO7-06-OBPC	N	0	0.5	9/27/2010	pg/g	N	240	50	100	11	39	34	
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	pg/g	N	1200	93	600	47	250	190	
	SSAO8-05	SSAO8-05-OBPC	N	0	0.5	9/27/2010	pg/g	N	0.96	1	0.5	0.27	0.19	0.21	
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	pg/g	N	3.9	4.1	1.7	0.66	0.59	0.67	

Notes:

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BCL: Basic comparison level

FD: Field duplicate

J: Indicates that the result is less than the method reporting limit but greater than the method detection limit and is therefore an estimated quantity

NDEP: Nevada Division of Environmental Protection

pg/g: picograms per gram

U: Indicates that the result is less than the method detection limit

Soil sample excavated

bold = Exceeds the NDEP BCL

(1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.

(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 5
Manganese Tailings Dioxin/Furans Soil Results

Analyte Name									1,2,3,4,7,8-Hexachloro-dibenzo-p-dioxin	1,2,3,6,7,8-Hexachloro-dibenzofuran	1,2,3,6,7,8-Hexachloro-dibenzo-p-dioxin	1,2,3,7,8,9-Hexachloro-dibenzofuran	1,2,3,7,8,9-Hexachloro-dibenzo-p-dioxin	1,2,3,7,8-Pentachloro-dibenzofuran
Units									pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2010 NDEP BCL (1)									--	--	--	--	--	--
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Units	Validated	Result	Result	Result	Result	Result	Result
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009		Y	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	pg/g	Y	0.54 JK	12	0.89 J	2.1 JK	0.59 JK	10
Phase B	SA108	SA108-20B	N	1	2.5	10/16/2009	pg/g	Y	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	0.65 J
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	pg/g	Y	28	640	66	170	64	970
Phase B	SA139	SA139-0.5B	N	0.5	2	8/20/2009	pg/g	Y	8.33	190	15.8	39.8	16.3	147
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	pg/g	Y	< 2.6 U	1.1 J	0.22 JK	0.33 J	0.23 J	0.95 J
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	pg/g	Y	< 2.7 U	1.5 J	< 2.7 U	< 2.7 U	< 2.7 U	1 J
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	pg/g	Y	5.1 J	140 J	11 J	23 J	14 J	91 J
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	pg/g	Y	2.4 J	69 J	4.8 J	13 J	5.1 J	60
Phase B	SA143	SA143-24B	N	2	3.5	10/15/2009	pg/g	Y	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Phase B	SA149	SA149-22B	N	-6	-4.5	10/21/2009	pg/g	Y	< 2.7 U	17	1.6 J	1.9 J	1.7 J	14
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	pg/g	Y	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	pg/g	Y	54	1300	110	190	120	1200
	SSAO7-06	SSAO7-06-0BPC	N	0	0.5	9/27/2010	pg/g	N	0.88	20	1.8	4	1.6	16
PCS	SSAO7-07	SSAO7-07-0BPC	N	0	0.5	9/17/2010	pg/g	N	5.9	140	13	33	7.7	150
	SSAO8-05	SSAO8-05-0BPC	N	0	0.5	9/27/2010	pg/g	N	< 0.098	0.12	< 0.097	< 0.071	< 0.081	0.2
PCS	SSAO8-07	SSAO8-07-0BPC	N	0	0.5	9/8/2010	pg/g	N	< 0.11	0.35	< 0.096	0.1	< 0.093	0.34

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NDEP: Nevada Division of Environmental Protection

pg/g: picograms per gram

U: Indicates that the result is less than the method detection limit

Soil sample excavated

bold = Exceeds the NDEP BCL

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(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 5
Manganese Tailings Dioxin/Furans Soil Results

									Analyte Name	1,2,3,7,8-Pentachloro-dibenzo-p-dioxin	2,3,4,6,7,8-Hexachloro-dibenzofuran	2,3,4,7,8-Pentachloro-dibenzofuran	2,3,7,8-Tetra-chloro-dibenzofuran	2,3,7,8-Tetrachloro-dibenzo-p-dioxin	Total TEQ (Calculated)	TTEQ_TAS
									Units	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g	pg/g
2010 NDEP BCL (1)									--	--	--	--	--	1000	1000	
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Units	Validated	Result	Result	Result	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009		Y	< 2.6 U	< 2.6 U	< 2.6 U	< 0.52 U	< 0.52 U		0.003	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	pg/g	Y	0.61 JK	3	5.6	4.9	0.27 J	6.8		
Phase B	SA108	SA108-20B	N	1	2.5	10/16/2009	pg/g	Y	< 2.6 U	< 2.6 U	< 2.6 U	< 0.52 U	< 0.52 U		0.12	
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	pg/g	Y	94	180	580	3500	58		940	
Phase B	SA139	SA139-0.5B	N	0.5	2	8/20/2009	pg/g	Y	9.96	43.1	74.4	82.3	3.05	119		
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	pg/g	Y	< 2.6 U	0.47 JK	0.5 J	< 0.52 U	< 0.52 U		0.53	
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	pg/g	Y	< 2.7 U	0.39 JK	0.52 JK	0.51 JK	< 0.54 U		0.47	
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	pg/g	Y	6.6 JK	41 J	38 J	42 J	2.3 J		71	
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	pg/g	Y	4.2	18 J	28	34	1.6 J		43	
Phase B	SA143	SA143-24B	N	2	3.5	10/15/2009	pg/g	Y	< 2.7 U	< 2.7 U	< 2.7 U	0.084 J	< 0.54 U		0.0092	
Phase B	SA149	SA149-22B	N	-6	-4.5	10/21/2009	pg/g	Y	< 2.7 U	3.4	7.6	8.9	< 0.53 U		9.3	
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	pg/g	Y	< 2.6 U	< 2.6 U	< 2.6 U	0.079 J	< 0.52 U		0.0082	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	pg/g	Y	91	380	560	770	28		890	
	SSAO7-06	SSAO7-06-OBPC	N	0	0.5	9/27/2010	pg/g	N	1.2	4.4	8.8	7.9	0.36	14		
PCS	SSAO7-07	SSAO7-07-OBPC	N	0	0.5	9/17/2010	pg/g	N	8.6	30	81	80	3.1	100		
	SSAO8-05	SSAO8-05-OBPC	N	0	0.5	9/27/2010	pg/g	N	< 0.066	< 0.07	< 0.075	0.28	< 0.084	0.077		
PCS	SSAO8-07	SSAO8-07-OBPC	N	0	0.5	9/8/2010	pg/g	N	< 0.097	0.14	< 0.12	0.51	< 0.052	0.22		

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pg/g: picograms per gram

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Soil sample excavated

bold = Exceeds the NDEP BCL

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TABLE 6
Manganese Tailings OCP Soils Results

								Analyte Name	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC
								Units	mg/kg	mg/gk	mg/kg	mg/kg	mg/kg
								2010 NDEP BCL (1)	11.1	7.81	7.81	0.113	0.399
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.0018 U	< 0.0018 U	< 0.0018 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.0018 U	< 0.0018 U	< 0.0018 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0014 U	< 0.0014 U	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	Y	< 0.0018 U	< 0.0018 U	< 0.0018 U	< 0.0009 U	< 0.0009 U	
Phase B	RSAO8	RSAO8-21.5B	N	9.5	11	9/14/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO8	RSAO8-43B	N	31	32.5	9/14/2009	Y	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0011 U	< 0.0011 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	< 0.0019 U	0.017 J+	0.017 J+	< 0.00093 U	< 0.00093 U	
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.00093 U	< 0.00093 U	

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mg/kg: milligrams per kilogram

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Soil sample excavated

bold = Exceeds the NDEP BCL

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TABLE 6
Manganese Tailings OCP Soils Results

								Analyte Name	Alpha-chlordane	Beta-BHC	Delta-BHC	Dieldrin	Endosulfan I
								Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
								2010 NDEP BCL (1)	--	1.4	--	0.12	--
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	
Phase B	RSA07	RSA07-9B	N	0.5	2	10/12/2009	Y	< 0.00091 U	< 0.00091 U	< 0.00091 U	< 0.0018 U	< 0.00091 U	
Phase B	RSA07	RSA07-19B	N	10	11.5	10/12/2009	Y	< 0.00091 U	< 0.00091 U	< 0.00091 U	< 0.0018 U	< 0.00091 U	
Phase B	RSA07	RSA07-29B	N	20	21.5	10/12/2009	Y	< 0.00091 U	< 0.00091 U	< 0.00091 U	< 0.0019 U	< 0.00091 U	
Phase B	RSA07	RSA07-47B	N	36	37.5	10/12/2009	Y	< 0.0014 U	< 0.0014 U	< 0.0014 U	< 0.0027 U	< 0.0014 U	
Phase B	RSA08	RSA08-11.5B	N	-0.5	1	9/14/2009	Y	< 0.0009 U	0.0025	< 0.0009 U	< 0.0018 U	< 0.0009 U	
Phase B	RSA08	RSA08-21.5B	N	9.5	11	9/14/2009	Y	< 0.00091 U	< 0.00091 U	< 0.00091 U	< 0.0019 U	< 0.00091 U	
Phase B	RSA08	RSA08-43B	N	31	32.5	9/14/2009	Y	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0021 U	< 0.0011 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	< 0.00093 U	0.013 J+	< 0.00093 U	< 0.0019 U	< 0.00093 U	
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	< 0.00093 U	< 0.00093 U	< 0.00093 U	< 0.0019 U	< 0.00093 U	

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 Soil sample excavated

bold = Exceeds the NDEP BCL

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TABLE 6
Manganese Tailings OCP Soils Results

								Analyte Name	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde
								Units	mg/kg	mg/kg	mg/kg	mg/kg
								2010 NDEP BCL (1)	--	--	205	--
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.0018 U	< 0.0018 U	< 0.0018 U	< 0.0018 UJ	
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.0018 U	< 0.0018 U	< 0.0018 U	< 0.0018 UJ	
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.0019 UJ	
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.0027 U	< 0.0027 U	< 0.0027 U	< 0.0027 UJ	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	Y	< 0.0018 U	< 0.0018 U	< 0.0018 U	< 0.0018 U	
Phase B	RSAO8	RSAO8-21.5B	N	9.5	11	9/14/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.0019 U	
Phase B	RSAO8	RSAO8-43B	N	31	32.5	9/14/2009	Y	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0021 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.0019 U	
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	< 0.0019 U	< 0.0019 U	< 0.0019 U	< 0.0019 U	

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 Soil sample excavated

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TABLE 6
Manganese Tailings OCP Soils Results

								Analyte Name	Endrin Ketone	Gamma-BHC (Lindane)	Gamma-Chlordane	Heptachlor
								Units	mg/kg	mg/kg	mg/kg	mg/kg
								2010 NDEP BCL (1)	--	1.93	--	0.426
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.0018 U	< 0.00091 U	0.0014 J	< 0.00091 U	
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.0018 U	< 0.00091 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.0019 U	< 0.00091 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.0027 U	< 0.0014 U	0.0058	< 0.0014 U	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	Y	< 0.0018 U	< 0.0009 U	< 0.0009 U	< 0.0009 U	
Phase B	RSAO8	RSAO8-21.5B	N	9.5	11	9/14/2009	Y	< 0.0019 U	< 0.00091 U	< 0.00091 U	< 0.00091 U	
Phase B	RSAO8	RSAO8-43B	N	31	32.5	9/14/2009	Y	< 0.0021 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	< 0.0019 U	< 0.00093 U	0.0044 J+	< 0.00093 U	
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	< 0.0019 U	< 0.00093 U	< 0.00093 U	< 0.00093 U	

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TABLE 6
Manganese Tailings OCP Soils Results

								Analyte Name	Heptachlor Epoxide	Methoxychlor	Tech-Chlordane	Toxaphene
								Units	mg/kg	mg/kg	mg/kg	mg/kg
								2010 NDEP BCL (1)	0.21	3420	7.19	1.74
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.00091 U	< 0.009 U	< 0.0045 U	< 0.018 U	
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.00091 U	< 0.009 U	< 0.0045 U	< 0.018 U	
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.00091 U	< 0.0091 U	< 0.0046 U	< 0.018 U	
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.0014 U	< 0.014 U	< 0.0066 U	< 0.027 U	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	Y	< 0.0009 U	< 0.009 U	< 0.0045 U	< 0.018 U	
Phase B	RSAO8	RSAO8-21.5B	N	9.5	11	9/14/2009	Y	< 0.00091 U	< 0.0091 U	< 0.0046 U	< 0.018 U	
Phase B	RSAO8	RSAO8-43B	N	31	32.5	9/14/2009	Y	< 0.0011 U	< 0.011 U	< 0.0051 U	< 0.021 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	< 0.00093 U	< 0.0092 U	< 0.0046 U	< 0.019 U	
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	< 0.00093 U	< 0.0092 U	< 0.0046 U	< 0.019 U	

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 Soil sample excavated

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(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 7
Manganese Tailings Wet Chemistry Soil Results

								Analyte Name	Alkalinity (as CaCO3)	Ammonia (as N)	Bicarbonate	Bromide	Carbonate	Chlorate	Chloride	Cyanide
								Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2010 NDEP BCL (1)								--	100000	--	--	--	--	--	--	13700
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	Result	Result	Result	Result
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	182	< 0.08 U	182	< 0.2 U	< 3 U	< 0.044 U	6.2 J		
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	237	< 0.08 U	229	< 0.2 U	8 J	< 0.043 U	5.5 J		
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	269	< 0.08 U	269	< 0.2 U	< 3 U	< 0.044 U	9.8 J		
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	524	< 0.11 U	511	1.1 J	13 J	1750	563 J		
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	Y	118	< 0.54 U	118	1.3	< 3 U	16.5	316		
Phase B	RSAO8	RSAO8-21.5B	N	9.5	11	9/14/2009	Y	133	< 0.54 U	133	2.3	< 3 U	8.58	494		
Phase B	RSAO8	RSAO8-43B	N	31	32.5	9/14/2009	Y	121	< 0.09 U	121	< 0.2 U	< 3 U	0.944	172		
Phase B	SA108	SA108-20B	N	1	2.5	10/16/2009	Y	313	< 0.08 U	301	< 0.2 U	13 J	88	594		
Phase B	SA108	SA108-30B	N	11	12.5	10/16/2009	Y	377	< 0.08 U	353	< 0.2 U	24	46.3	307		
Phase B	SA108	SA108-45B	N	26	27.5	10/16/2009	Y	121	< 0.09 U	121	2.1	< 3 U	7.71	60.1		
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	141	2.82	141	< 0.2 U	< 3 U	1.17	120 J	0.82 J+	
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	864	< 0.08 U	807	< 0.2 U	57	0.948	10.7 J	< 0.42 U	
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	1470	< 0.1 U	1380	< 0.2 U	91	79.3 J-	144 J	< 0.6 U	
Phase B	SA139	SA139-0.5B	N	0.5	2	8/20/2009	Y	250	< 0.08 U	250	< 0.2 U	< 3 U	0.537	632		
Phase B	SA139	SA139-10B	N	10	11.5	8/20/2009	Y	167	< 0.08 U	167	< 0.2 U	< 3 U	0.126 J	152		
Phase B	SA139	SA139009-25B	FD	25	26.5	8/20/2009	Y	250	< 0.08 U	241	< 0.2 U	9 J	2.88	39.9		
Phase B	SA139	SA139-25B	N	25	26.5	8/20/2009	Y	284	< 0.08 U	279	< 0.2 U	4 J	2.51	36.2		
Phase B	SA139	SA139-35B	N	35	36.5	8/20/2009	Y	113	< 0.09 U	113	< 0.2 U	< 3 U	6.03	168		
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	259	< 0.08 U	253	< 0.2 U	6 J	9.8	1020 J+		
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	269	< 0.08 U	260	< 0.2 U	8 J	11.1 J-	1060 J+		
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	162	< 0.08 U	162	< 0.2 U	< 3 U	20.6	1680 J+		
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	164	< 0.08 U	164	< 0.2 U	< 3 U	13	1730 J+		
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	145	< 0.08 U	145	< 0.2 U	< 3 U	< 0.043 U	151	0.9 J	
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	135	< 0.08 U	135	< 0.2 U	< 3 U	0.07 J+	113	0.9 J	
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	238	< 0.08 U	235	< 0.2 U	3 J	0.128 J	9.4	0.6 J	
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	111	< 0.08 U	111	0.9 J	< 3 U	2.6	104	< 0.42 U	
Phase B	SA143	SA143-24B	N	2	3.5	10/15/2009	Y	228	< 0.08 U	224	< 0.2 U	4 J	< 0.044 U	7.8 J+		
Phase B	SA143	SA143-34B	N	12	12.5	10/15/2009	Y	330	< 0.08 U	321	< 0.2 U	9 J	0.353	20.5 J+		
Phase B	SA143	SA143009-50B	FD	28	29.5	10/15/2009	Y	105	< 0.08 U	105	< 0.2 U	< 3 U	1.19	85.7 J+		
Phase B	SA143	SA143-50B	N	28	29.5	10/15/2009	Y	170	< 0.08 U	170	< 0.2 U	< 3 U	1.08	88.3 J+		
Phase B	SA149	SA149-22B	N	-6	-4.5	10/21/2009	Y	234	< 0.2 U	230	< 0.2 U	4 J	< 0.045 U	17.5		
Phase B	SA149	SA149-32B	N	5	5.5	10/21/2009	Y	294	< 0.1 U	286	< 0.2 U	8 J	< 0.044 U	12.9		
Phase B	SA149	SA149009-45B	FD	17	18.5	10/21/2009	Y	393	< 0.09 U	380	< 0.2 U	13 J	3.68 J	57.5		
Phase B	SA149	SA149-45B	N	17	18.5	10/21/2009	Y	464	< 0.09 U	449	< 0.2 U	15 J	6.26 J	84.7		
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	157	< 0.08 U	157	< 0.2 U	< 3 U	2.42	539	< 0.42 U	
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	197	< 0.08 U	197	< 0.2 U	< 3 U	2.66	122	< 0.5 U	
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	317	< 0.08 U	306	< 0.2 U	11 J	0.305	35.6	< 0.5 U	
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	94	< 0.09 U	94	< 0.2 U	< 3 U	0.081 J	84.2	< 0.5 U	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	615	< 0.1 U	573	1.1	42	135 J+	628		
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	386	< 0.1 U	366	1.2	20 J	282	808		
Phase B	SA52	SA52-43B	N	28.5	30	10/21/2009	Y	225	< 0.16 U	225	1.8	< 4 U	1010	2600		

Notes:

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mg/kg: milligrams per kilogram

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Soil sample excavated

bold = Exceeds the NDEP BCL

(1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.

(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 7
Manganese Tailings Wet Chemistry Soil Results

								Analyte Name	MBAS	Mercury	Nitrate (as N)	Nitrite	Perchlorate	Sulfate	Total Phosphorus-P
								Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2010 NDEP BCL (1)								--	341	--	--	795	--	--	
Task	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Validated	Result	Result	Result	Result	Result	Result	Result	
Phase B	RSAO7	RSAO7-9B	N	0.5	2	10/12/2009	Y	< 0.6 U	0.024	5.41 J+	< 0.08 U	< 0.044 UJ	376 J+	831	
Phase B	RSAO7	RSAO7-19B	N	10	11.5	10/12/2009	Y	< 0.6 U	0.008 J	1.28 J+	< 0.08 U	< 0.043 UJ	236 J+	546	
Phase B	RSAO7	RSAO7-29B	N	20	21.5	10/12/2009	Y	< 0.6 U	0.01 J	1.6 J+	< 0.08 U	0.223 J	435 J+	912	
Phase B	RSAO7	RSAO7-47B	N	36	37.5	10/12/2009	Y	< 0.8 U	0.006 J	11.7 J+	< 0.16 U	442 J-	1260 J+	712	
Phase B	RSAO8	RSAO8-11.5B	N	-0.5	1	9/14/2009	Y	0.9 J	0.028	13.9 J+	0.16	9.37	11200	945	
Phase B	RSAO8	RSAO8-21.5B	N	9.5	11	9/14/2009	Y	< 0.6 U	0.027	6.58 J+	< 0.08 U	6.1	11400	750	
Phase B	RSAO8	RSAO8-43B	N	31	32.5	9/14/2009	Y	< 0.7 U	0.014 J	3.46 J+	< 0.09 U	1.41	15200	849	
Phase B	SA108	SA108-20B	N	1	2.5	10/16/2009	Y	< 0.6 U	0.018	21.8 J+	0.24	105 J+	1660	976	
Phase B	SA108	SA108-30B	N	11	12.5	10/16/2009	Y	< 0.6 U	0.005 J	3.71 J+	0.11 J	37.6 J+	983	905	
Phase B	SA108	SA108-45B	N	26	27.5	10/16/2009	Y	< 0.7 U	0.007 J	2.13 J+	< 0.09 U	4.6 J+	17400	602	
Phase B	SA137	SA137-0.5B	N	0.5	2	10/9/2009	Y	< 0.6 U	0.115	12.6 J+	0.16	47.6 J-	15400 J+	581	
Phase B	SA137	SA137-15B	N	15	16.5	10/9/2009	Y	< 0.6 U	0.03	0.84 J+	< 0.08 U	0.851 J-	43.5 J+	610	
Phase B	SA137	SA137-31B	N	31	32.5	10/9/2009	Y	1.4 J	0.01 J	3.07 J+	< 0.1 U	26.2 J-	216 J+	459	
Phase B	SA139	SA139-0.5B	N	0.5	2	8/20/2009	Y	0.7 J-	0.08	54 J+	0.11	39.4	17300	688	
Phase B	SA139	SA139-10B	N	10	11.5	8/20/2009	Y	< 0.6 UJ	0.031	12.2 J+	< 0.08 U	5.83	3910	864	
Phase B	SA139	SA139009-25B	FD	25	26.5	8/20/2009	Y	0.7 J-	0.008 J	2.2 J+	< 0.08 U	0.915	544	848	
Phase B	SA139	SA139-25B	N	25	26.5	8/20/2009	Y	1.2 J-	0.01 J	1.83 J+	< 0.08 U	1.19	474	872	
Phase B	SA139	SA139-35B	N	35	36.5	8/20/2009	Y	1.4 J-	0.01 J	4.58 J+	< 0.09 U	2.05	20500	575	
Phase B	SA141	SA141009-14B	FD	0.5	2	10/15/2009	Y	1.5 J	0.032	5.58 J+	< 0.08 U	3.18	408 J+	794	
Phase B	SA141	SA141-14B	N	0.5	2	10/15/2009	Y	< 0.6 U	0.024	5.68 J+	< 0.08 U	3.56	444 J+	702	
Phase B	SA141	SA141-24B	N	10	11.5	10/15/2009	Y	< 0.6 U	0.012 J	2.5 J+	0.11	6.54	307 J+	653	
Phase B	SA141	SA141-30B	N	16	17.5	10/15/2009	Y	< 0.6 U	0.009 J	5.43 J+	< 0.08 U	2.18	164 J+	772	
Phase B	SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	Y	< 0.6 U	0.026	9.42 J+	< 0.08 U	1.1 J+	7210	879	
Phase B	SA142	SA142-20.5B	N	20.5	22	10/16/2009	Y	< 0.6 U	0.021	7.69 J+	< 0.08 U	1.33 J+	6390	854	
Phase B	SA142	SA142-30.5B	N	30.5	32	10/16/2009	Y	< 0.6 U	0.019	3.57 J+	< 0.08 U	0.047 J+	620	707	
Phase B	SA142	SA142-51B	N	51	52.5	10/16/2009	Y	< 0.6 U	0.012 J	2.68 J+	< 0.08 U	1.97 J+	4960	723	
Phase B	SA143	SA143-24B	N	2	3.5	10/15/2009	Y	< 0.6 U	0.008 J	6.71 J+	< 0.08 U	9.14	433 J+	559	
Phase B	SA143	SA143-34B	N	12	12.5	10/15/2009	Y	0.7 J	0.012 J	1.42 J+	< 0.08 U	0.375	192 J+	852	
Phase B	SA143	SA143009-50B	FD	28	29.5	10/15/2009	Y	0.7 J	0.051	2.7 J+	< 0.09 U	0.414	6890 J+	630	
Phase B	SA143	SA143-50B	N	28	29.5	10/15/2009	Y	< 0.6 U	0.009 J	2.6 J+	< 0.09 U	0.324	7690 J+	585	
Phase B	SA149	SA149-22B	N	-6	-4.5	10/21/2009	Y	< 0.6 U	0.126	0.89 J+	< 0.08 U	< 0.035 UJ	295	1010	
Phase B	SA149	SA149-32B	N	5	5.5	10/21/2009	Y	< 0.6 U	0.08	< 0.05 U	< 0.08 U	< 0.035 UJ	92.2	722	
Phase B	SA149	SA149009-45B	FD	17	18.5	10/21/2009	Y	< 0.7 U	0.012 J	1.58 J+	< 0.09 U	2.22 J	250	617	
Phase B	SA149	SA149-45B	N	17	18.5	10/21/2009	Y	< 0.7 U	0.012 J	1.75 J+	< 0.09 U	3.67 J	353	585	
Phase B	SA171	SA171-5B	N	0.5	2	10/19/2009	Y	< 0.6 U	0.012 J	13.1 J+	< 0.08 U	6.01 J+	745	1020	
Phase B	SA171	SA171-15B	N	10	11.5	10/19/2009	Y	< 0.6 U	0.013 J	7.29 J+	< 0.08 U	2.69 J+	952	907	
Phase B	SA171	SA171-30B	N	25	26.5	10/19/2009	Y	< 0.6 U	0.016 J	4.24 J+	< 0.08 U	0.424 J+	125 J+	571	
Phase B	SA171	SA171-41B	N	36	37.5	10/19/2009	Y	< 0.7 U	0.008 J	3.2 J+	< 0.09 U	0.161 J+	12800	479	
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	Y	0.7 J	0.083	9.6 J+	< 0.08 U	73.2 J	1060	1070	
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	Y	< 0.6 U	0.007 J	6.3 J+	< 0.08 U	92.3 J	395	639	
Phase B	SA52	SA52-43B	N	28.5	30	10/21/2009	Y	< 0.8 U	0.007 J	30.5 J+	< 0.11 U	489 J	14300	547	

Notes:

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Soil sample excavated

bold = Exceeds the NDEP BCL

(1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.

(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 8
Manganese Tailings PCB Aroclors Soil Results

									Analyte Name	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
									Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
									2010 NDEP BCL (1)	23.6	0.826	0.826	0.826	0.826	0.826	0.826
Investigation	Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Units	Validated	Result	Result	Result	Result	Result	Result	Result	Result
Phase B	SA52	SA52-15B	N	0.5	2	10/21/2009	mg/kg	Y	< 0.019 U	< 0.042 U	< 0.019 U	< 0.029 U	< 0.019 U	< 0.019 U	< 0.019 U	0.077 J+
Phase B	SA52	SA52-28B	N	13.5	15	10/21/2009	mg/kg	Y	< 0.019 U	< 0.042 U	< 0.019 U	< 0.029 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.033 U

Notes:

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mg/kg: milligrams per kilogram

NDEP: Nevada Division of Environmental Protection

U: Indicates that the result is less than the method detection limit

 Soil sample excavated

bold = Exceeds the NDEP BCL

(1) From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 5, August 2010.

(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 9
Manganese Tailings TPH Soil Results

Analyte Name									Oil Range Organics			Total petroleum hydrocarbon-diesel		
NDEP 2010 MIN BCL (1)									--			100		
Boring ID	Sample Name	Type	Start Depth (2)	End Depth	Sample Date	Units	Task	Validated	Detected	Result	Qualifier	Detected	Result	Qualifier
RSA07	RSA07-9B	N	0.5	2	10/12/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
RSA07	RSA07-19B	N	10	11.5	10/12/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
RSA07	RSA07-29B	N	20	21.5	10/12/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
RSA07	RSA07-47B	N	36	37.5	10/12/2009	mg/kg	Phase B	Y	<	48	U	<	48	U
RSA08	RSA08-11.5B	N	-0.5	1	9/14/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
RSA08	RSA08-21.5B	N	9.5	11	9/14/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
RSA08	RSA08-43B	N	31	32.5	9/14/2009	mg/kg	Phase B	Y	<	37	U	<	37	U
SA137	SA137-0.5B	N	0.5	2	10/9/2009	mg/kg	Phase B	Y	<	31	U	<	31	U
SA137	SA137-15B	N	15	16.5	10/9/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA137	SA137-31B	N	31	32.5	10/9/2009	mg/kg	Phase B	Y	<	41	UJ	<	41	UJ
SA141	SA141009-14B	FD	0.5	2	10/15/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA141	SA141-14B	N	0.5	2	10/15/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA141	SA141-24B	N	10	11.5	10/15/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA141	SA141-30B	N	16	17.5	10/15/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA142	SA142009-20.5B	FD	20.5	22	10/16/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA142	SA142-20.5B	N	20.5	22	10/16/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA142	SA142-30.5B	N	30.5	32	10/16/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA142	SA142-51B	N	51	52.5	10/16/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA171	SA171-5B	N	0.5	2	10/19/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA171	SA171-15B	N	10	11.5	10/19/2009	mg/kg	Phase B	Y	<	34	U	<	34	U
SA171	SA171-30B	N	25	26.5	10/19/2009	mg/kg	Phase B	Y	<	33	U	<	33	U
SA171	SA171-41B	N	36	37.5	10/19/2009	mg/kg	Phase B	Y	<	37	U	<	37	U

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(2) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 10
Manganese Tailings Asbestos Soil Results

Boring ID	Task	Sample Name	Sample Date	Start Depth (1)	End Depth	Analyte Name		Long Amphibole Protocol Structures Count			Long Asbestos Protocol Structures Count			
						Units	Validated	Detected	Uncertainty	Result	Qualifier	Detected	Uncertainty	Result
SA137	Phase B	SA137-0.0B	9/9/2009	0	0.5	s/samp	Y	<		0		<		0
SA139	Phase B	SA139-0.0B	8/26/2009	0	0.5	s/samp	Y	<		0 U		<		0 U
SSAO8-02	PCS Asbestos	SSAO8-02-0.00BPC	4/14/2010	0	0.17	s/samp	N		2980000	1 J			2980000	1 J
SSAO8-02	PCS Asbestos	SSAO8-02-0.33BPC	4/14/2010	0.33	0.5	s/samp	Y	<	2960000	0 U		<	2960000	0 U
SSAP7-01	PCS Asbestos	SSAP7-01-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2970000	0 U		<	2970000	0 U
SSAP8-02	PCS Asbestos	SSAP8-02-0.00_01_BPC	10/28/2010	0	0.17	s/samp	N	<	2658194	0		<	2658194	0

Notes:

- Soil sample excavated and data will be excluded from HRA calculations
- (1) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 10
Manganese Tailings Asbestos Soil Results

Boring ID	Task	Sample Name	Sample Date	Start Depth (1)	End Depth	Analyte Name		Long Chrysotile Protocol Structures Count			Short Amphibole Structures Counts			
						Units	Validated	Detected	Uncertainty	Result	Qualifier	Detected	Uncertainty	Result
SA137	Phase B	SA137-0.0B	9/9/2009	0	0.5	s/samp	Y	<		0		<		0
SA139	Phase B	SA139-0.0B	8/26/2009	0	0.5	s/samp	Y	<		0 U		<		0 U
SSAO8-02	PCS Asbestos	SSAO8-02-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2980000	0 U		<	2980000	0 U
SSAO8-02	PCS Asbestos	SSAO8-02-0.33BPC	4/14/2010	0.33	0.5	s/samp	Y	<	2960000	0 U		<	2960000	0 U
SSAP7-01	PCS Asbestos	SSAP7-01-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2970000	0 U		<	2970000	0 U
SSAP8-02	PCS Asbestos	SSAP8-02-0.00_01_BPC	10/28/2010	0	0.17	s/samp	N	<	2658194	0		<	2658194	0

Notes:

Soil sample excavated and data will be excluded from HRA calculations

(1) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 10
Manganese Tailings Asbestos Soil Results

Boring ID	Task	Sample Name	Sample Date	Start Depth (1)	End Depth	Analyte Name		Short Asbestos Structures Counts			Short Chrysotile Structures Counts			
						Units	Validated	Detected	Uncertainty	Result	Qualifier	Detected	Uncertainty	Result
SA137	Phase B	SA137-0.0B	9/9/2009	0	0.5	s/samp	Y	<		0		<		0
SA139	Phase B	SA139-0.0B	8/26/2009	0	0.5	s/samp	Y	<		0 U		<		0 U
SSAO8-02	PCS Asbestos	SSAO8-02-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2980000	0 U		<	2980000	0 U
SSAO8-02	PCS Asbestos	SSAO8-02-0.33BPC	4/14/2010	0.33	0.5	s/samp	Y	<	2960000	0 U		<	2960000	0 U
SSAP7-01	PCS Asbestos	SSAP7-01-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2970000	0 U		<	2970000	0 U
SSAP8-02	PCS Asbestos	SSAP8-02-0.00_01_BPC	10/28/2010	0	0.17	s/samp	N	<	2658194	0		<	2658194	0

Notes:

Soil sample excavated and data will be excluded from HRA calculations

(1) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 10
Manganese Tailings Asbestos Soil Results

Boring ID	Task	Sample Name	Sample Date	Start Depth (1)	End Depth	Analyte Name		Total Amphibole Protocol Structures Count			Total Asbestos Protocol Structures Count			
						Units	Validated	Detected	Uncertainty	Result	Qualifier	Detected	Uncertainty	Result
SA137	Phase B	SA137-0.0B	9/9/2009	0	0.5	s/samp	Y	<		0		<		0
SA139	Phase B	SA139-0.0B	8/26/2009	0	0.5	s/samp	Y	<		0 U		<		0 U
SSAO8-02	PCS Asbestos	SSAO8-02-0.00BPC	4/14/2010	0	0.17	s/samp	N		2980000	1 J			2980000	1 J
SSAO8-02	PCS Asbestos	SSAO8-02-0.33BPC	4/14/2010	0.33	0.5	s/samp	Y	<	2960000	0 U		<	2960000	0 U
SSAP7-01	PCS Asbestos	SSAP7-01-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2970000	0 U		<	2970000	0 U
SSAP8-02	PCS Asbestos	SSAP8-02-0.00_01_BPC	10/28/2010	0	0.17	s/samp	N	<	2658194	0		<	2658194	0

Notes:

- Soil sample excavated and data will be excluded from HRA calculations
- (1) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.



TABLE 10
Manganese Tailings Asbestos Soil Results

Boring ID	Task	Sample Name	Sample Date	Start Depth (1)	End Depth	Units	Validated	Total Chrysotile Protocol Structures Count			
								Detected	Uncertainty	Result	Qualifier
SA137	Phase B	SA137-0.0B	9/9/2009	0	0.5	s/samp	Y	<		0	
SA139	Phase B	SA139-0.0B	8/26/2009	0	0.5	s/samp	Y	<		0	U
SSAO8-02	PCS Asbestos	SSAO8-02-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2980000	0	U
SSAO8-02	PCS Asbestos	SSAO8-02-0.33BPC	4/14/2010	0.33	0.5	s/samp	Y	<	2960000	0	U
SSAP7-01	PCS Asbestos	SSAP7-01-0.00BPC	4/14/2010	0	0.17	s/samp	N	<	2970000	0	U
SSAP8-02	PCS Asbestos	SSAP8-02-0.00_01_BPC	10/28/2010	0	0.17	s/samp	N	<	2658194	0	

Notes:

Soil sample excavated and data will be excluded from HRA calculations

(1) Depth from ground surface after tailings pile removed. Depth corrected from Phase B borings to remove thickness of tailings pile.

