Atlantic Richfield Company

wood.

Appendix 6A

OU-6 Previous Data

Appendix 6A, Table 6A-1
Summary of Analytical Results - Metals and Radionuclides in Soil
2005 OU-3 Peripheral Process Components
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	Aluminum (mg/kg)	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Boron (mg/kg)	Cadmium (mg/kg)	Calcium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Magnesium (mg/kg)	Manganese (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Potassium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sodium (mg/kg)	Thallium (mg/kg)	Thorium (mg/kg)	Uranium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	Radium-226 (pCi/g)	Radium-228 (pCi/g)
2005 OU-3 Process Area Soil[1]																															
PA-PP1	0.5-1	3/30/2005	5700	0.48 J	14	85	0.31	< 0.83 UJ	0.19	4000	9	6.1	2600	13000	7.4	4600	73	0.18	6.5	12	1200	7.6	0.3	120	0.19 J	6.2	2.1	37	24	2.3 +/-0.5	1.4 +/-0.3
PA-PP1	4.5-5	3/30/2005	4100	0.076 J	11	91	0.34	< 1.6 UJ	0.2	3100	8.2	6.9	2800	9100	21	3800	81	0.46	5	13	1300	5.4	0.21	160	0.36	6.4	1.7	40	28	2.7 +/-0.3	1.9 +/-0.3
PA-PP2	0.5-1	3/30/2005	5000	0.36 J	9.6 J	60 J	0.48	< 0.32 UJ	0.18	3600	3.8	4.3	2100	16000	5.1	4400	61 J	0.079	6 J	8.8	1600 J	7.7 J	0.14	80 J	0.23 J	6.8	1.8	28 J	19 J	2.6 +/-0.3	< 1
PA-PP2	4.5-5	3/30/2005	4900	0.19 J	11	98	0.61	< 0.76 UJ	0.24	3500	4.9	4.8	2700	12000	8.9	4100	73	0.16	11	11	1300	13	0.39	69	0.14 J	7.2	2.1	32	22	2.8 +/-0.5	1.8 +/-0.4
PA-PP3	0.5-1	3/30/2005	3400	0.2 J	13	81	0.42	< 0.65 UJ	0.2	4300	6.2	5.6	3100	10000	7.3	2600	72	0.72	4.4	9.5	680	6.2	0.36	98	0.091 J	4.8	1.2	26	22	2 +/-0.4	1.7 +/-0.4
PA-PP3	4.5-5	3/30/2005	4100	< 0.021 R	6.7	37	0.15	< 1.9 UJ	0.082	3400	2.2	2.4	980	13000	2.8	3600	34	0.21	2.3	3.9	900	2.7	0.084 J	82	0.05 J	6.1	2.1	11	11	3.6 +/-0.5	< 1
PA-PP4	0.5-1	3/30/2005	6000	< 0.02 R	4.7	33	0.16	< 0.13 UJ	0.076	3500	2.6	2.4	760	11000	3.2	5600	33	0.1	2.9	5.4	1300	3.8	0.076 J	99	0.056 J	9.9	2.2	14	9.6	2.9 +/-0.4	2.3 +/-0.5
PA-PP4	4.5-5	3/30/2005	4600	< 0.02 R	3	23	0.14	< 0.0054	0.066	2500	2.4	2.1	550	7600	2.5	4600	28	0.052	1.9	5.2	1600	2.7	0.055 J	61	0.055 J	9.5	2	12	8	2.9 +/-0.4	2.1 +/-0.3
PA-QQ1	0.5-2.5	4/3/2005	3900	< 0.02 R	2.6	70	0.33	2.4 J	0.25	4900	2.2	2.4	70	7900	3.9	2100	250	0.014	0.14 J	2.8	1200	0.19 J	0.046 J	690	0.13 J	--	--	8.1	19	--	--
PA-QQ1	9-10	4/3/2005	6000	< 0.02 R	3	65	0.3	5.8	0.24	12000	3	2.3	12	8900	3.2	2900	190	0.0017 J	0.18 J	3.2	1000	0.19 J	0.04 J	1200	0.07 J	--	--	8.2	18	--	--
PA-QQ1	4-5	4/3/2005	4600	< 0.02 R	4	38	0.29	3.7 J	0.25	4100	2.2	2.4	6.9	7200	3.8	1800	210	< 0.00014	0.15 J	3.1	1100	< 0.17	0.034 J	850	0.073 J	--	--	9.3	17	--	--
PA-QQ2	0.5-2.5	4/3/2005	4600	< 0.11 R	2.9	62	0.34	1.5 J	0.2	4300	2.6	2.8	190 J	7200	4.3	2500	200 J	0.036	0.35 J	3.1	1300	0.5 J	0.052 J	610 J	< 0.083 UJ	--	--	9.5	19	--	--
PA-QQ2	9-10	4/3/2005	3800	< 0.02 R	3.2	50	0.3	1.7 J	0.22	3000	2.2	2.3	6.6	6800	3.6	1800	160	< 0.00015	0.076 J	2.7	840	< 0.17	0.039 J	540	0.056 J	--	--	7.9	16	--	--
PA-QQ2	4-5	4/3/2005	4600	< 0.021 R	3.4	61	0.35	1.4 J	0.23	4500	2.8	2.8	280	7300	4.8	2500	210	0.067	0.3	3.4	1300	0.57 J	0.063 J	580	0.077 J	--	--	10	21	--	--
PA-RR1	0.5-2.5	4/3/2005	4300	< 0.02 R	3.6	77	0.35	2.1 J	0.22	4300	1.4	1.7	5	6100	3.7	1600	290 J	< 0.00014	0.072 J	2.6	820	< 0.17	0.033 J	920	0.046 J	--	--	8.1	15	--	--
PA-RR1	9-10	4/3/2005	4300	< 0.053 R	3.5	58	0.38	4.2 J	0.2	11000	1.8	2.1	6.3	6500	4	2100	170	0.0013 J	0.16 J	2.2	940	< 0.18	0.031 J	1000	0.11 J	--	--	7	19	--	--
PA-RR1	4-5	4/3/2005	8300	< 0.021 R	3.2	62	0.55	7.6	0.39	7300	4.9	4.1	13	12000	7.1	3600	240	0.001 J	0.17 J	5.6	1300	< 0.18	0.079 J	1000	0.1 J	--	--	13	28	--	--
PA-RR2	0.5-2.5	4/3/2005	4500	< 0.02 R	2.5	64	0.4	< 1.1 UJ	0.26	5900	2.2	2.5	6.5	7900	4.2	2200	250	0.0012 J	0.079 J	3.2	800	< 0.17	0.045 J	680	0.056 J	--	--	8.4	20	--	--
PA-RR2	9-10	4/3/2005	6300	< 0.02 R	2.6	50	0.33	3.1 J	0.25	3900	2.7	2.8	7.6	9600	4	2300	200	< 0.00014	0.072 J	3.6	1100	< 0.16	0.044 J	730	0.063 J	--	--	8.9	18	--	--
PA-RR2	4-5	4/3/2005	4800	< 0.02 R	2.6	46	0.3	2.3 J	0.22	3000	2.2	2.4	6.5	7400	3.7	2100	180	< 0.00014	0.054 J	2.8	1200	< 0.16	0.037 J	490	0.057 J	--	--	8	17	--	--

Notes(s)
1. Brown and Caldwell, 2005. Data Summary Report for Process Area Soils Characterization. November 1.

Abbreviation(s)
< = less than
-- = no data
ID = identification
ft bgs = feet below ground surface
J = estimated value
mg/kg = milligram per kilogram
pCi/g = picocurie per gram
R = rejected value
UJ = estimated detection limit

Appendix 6A, Table 6A-2
Summary of Analytical Results - Metals and Radionuclides in Soil
2010 Characterization of Potential Cover Materials
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	Aluminum (mg/Kg)	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Boron (mg/Kg)	Cadmium (mg/Kg)	Calcium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Iron (mg/Kg)	Lead (mg/Kg)	Magnesium (mg/Kg)	Manganese (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Potassium (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Sodium (mg/Kg)	Thallium (mg/Kg)	Thorium (mg/Kg)	Uranium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)	Radium-226 (pCi/g)	Radium-228 (pCi/g)
2010 OU-6 Oxide Tailings Area[1]																															
VLT-XRF-1	0.5-1	5/11/2010	7500	< 2.6 UJ	5.9	55	0.28 J	< 2.1	< 0.25	3600	24	3.2	850	11000	3.5	6600	45	0.66	< 3.8 UJ	8.6	930 J	4.3 J	< 0.25	120	< 0.5	5.29	1.43	21	< 13	--	--
VLT-XRF-1	2.5-3	5/11/2010	7300	< 2.9 UJ	6.5	56	< 0.25	< 2.1	< 0.25	3300	19	3.6	1100	12000	3.5	6400	47	0.57	< 3.1 UJ	8.3	1100 J	2.8 J	< 0.25	120	0.99 J	6.18	1.33	22	< 12	--	--
VLT-XRF-2	0.5-1	5/11/2010	5700	< 2 UJ	4.7	30	< 0.25	< 2.1	< 0.25	2400	17	2.1 J	610	8800	2.5	5000	32	0.42	< 2.9 UJ	5.5	530 J	3.2 J	< 0.25	81	< 0.5	3.46	1.1	19	< 12	--	--
VLT-XRF-2	2.5-3	5/11/2010	7300	< 1.6 UJ	6.2	35	< 0.25	< 2.1	< 0.25	3400	24	3.1	1300	11000	2.6	6300	46	0.3	< 2.8 UJ	7.7	740 J	4.2 J	< 0.25	140	< 0.5	3.69	0.827	23	< 13	--	--
VLT-XRF-3	0.5-1	5/11/2010	7200	< 1.7 UJ	6.3	47	< 0.25	< 2.1	< 0.25	3700	22	3	830	10000	2.8	6100	41	0.13	< 2.9 UJ	6.7	900 J	3.5 J	< 0.25	130	< 0.49	6.36	1.33	18	< 12	--	--
VLT-XRF-3	2.5-3	5/11/2010	7300	< 1.6 UJ	5.4	76	< 0.25	< 2.1	< 0.25	3100	29	3.3	810	11000	2.7	6300	48	0.12	< 3.4 UJ	7.2	1000 J	3.5 J	< 0.25	130	< 0.5	7.5	1.24	20	< 12	--	--
VLT-XRF-4	0.5-1	5/11/2010	7300	< 0.74	5	55	< 0.25	< 2.1	< 0.25	3500	33	3.2	530	8900	3.5	6500	41	0.084	< 2.9 UJ	10	1200 J	1.7 J	< 0.25	150	< 0.49	4.92	1.28	23	< 12	--	--
VLT-XRF-4	2.5-3	5/11/2010	7100	< 1 UJ	5	46	< 0.25	< 2.1	< 0.25	4100	18	3.6	700	9400	3.1	6300	46	0.11	< 2.5 UJ	8.9	960 J	2.6 J	< 0.25	120	< 0.49	5.43	1.16	23	< 12	--	--
VLT-XRF-5	0.5-1	5/11/2010	7100	< 0.75	7.4	56	< 0.25	< 2.1	< 0.25	2900	17	3.5	1500	18000	3.1	6100	51	0.13	< 3.9 UJ	7.7	1200 J	3 J	< 0.25	140	< 0.5	7.04	1.37	23	< 12	--	--
VLT-XRF-5	2.5-3	5/11/2010	8400	< 0.74	6.3	61	< 0.25	< 2.1	< 0.25	3400	21	3.7	1000	15000	3	7500	58	0.18	< 3.4 UJ	8.5	2000 J	3.8 J	< 0.25	130	< 0.49	7.31	1.54	29	67 J	--	--
VLT-XRF-6	0.5-1	5/12/2010	6900	< 0.74	5.1	42	< 0.25	< 2.1	< 0.25	2800	27	3.9	1100	16000	5.3	5900	48	0.074	< 3.2 UJ	9.5	1200 J	1.7 J	< 0.25	140	< 0.5	4.03	0.662	31	< 12	--	--
VLT-XRF-6	2.5-3	5/12/2010	5900	< 0.75	2.7	60	< 0.25	< 2.1	< 0.25	2500	21	2.3 J	670	7500	3.5	4700	29	0.16	< 1.2 UJ	6.7	750 J	9.1	< 0.25	130	< 0.5	4.46	0.719	16	< 12	--	--
VLT-XRF-7	0.5-1	5/12/2010	6800	< 2 UJ	7.5	50	< 0.25	< 2.1	< 0.25	2800	20	3.3	1400	12000	3.1	5800	41	0.13	< 1.9 UJ	9.2	970 J	1.7 J	< 0.25	160	< 0.5	5.69	1.12	26	< 13	--	--
VLT-XRF-7	2.5-3	5/12/2010	6500	< 0.75	4.2	49	< 0.25	< 2.1	< 0.25	3300	29	2.6	880	7900	3.4	5300	33	0.13	< 1.8 UJ	7.2	830 J	6.4	< 0.25	150	< 0.5	5.24	0.87	17	< 12	--	--
VLT-XRF-8	0.5-1	5/12/2010	7100	< 0.74	5.6	57	< 0.25	< 2.1	< 0.25	3300	25	3.3	710	11000	3.3	5900	45	0.14	< 3.6 UJ	8.4	1100 J	2.6 J	< 0.25	140	< 0.49	6.04 J	1.68	22	< 12	--	--
VLT-XRF-8	2.5-3	5/12/2010	6600	< 0.74	5.7	56	< 0.25	< 2.1	< 0.25	3100	24	4	820	12000	3	6000	49	0.12	< 3.5 UJ	7.8	1100 J	2.6 J	< 0.25	140	< 0.5	6.33	1.78	25	< 12	--	--
VLT-XRF-9	0.5-1	5/12/2010	8300	1.7 J	8.1	54	< 0.25	< 2.1	< 0.25	4100	16	4.2	1100	10000	2.6	7300	63	0.18	3.5 J	8.9	610	2.1 J	< 0.25	130	1.4 J	6.01 J	1.45	22	< 12	--	--
VLT-XRF-9	2.5-3	5/12/2010	7900	0.91 J	3.8	52	< 0.25	< 2.1	< 0.25	3200	23	3.7	1100	11000	2.7	6900	59	0.12	4.2 J	7.6	720	3.3 J	< 0.25	150	0.96 J	5.95 J	1.49	21	< 12	--	--
VLT-XRF-10	0.5-1	5/12/2010	7100	2.1 J	5.8	77	< 0.25	< 2.1	< 0.25	2800	26	3.7	1500	18000	3.1	5600	47	0.14	5.5	8	1300	5.3	< 0.25	160	< 0.5	7.37 J	1.92	23	< 12	--	--
VLT-XRF-10	1.67-2.17	5/12/2010	6500	2.1 J	7.6	48	< 0.25	< 2.1	< 0.25	2300	20	4.2	1100	14000	2.7	5400	46	0.095 J	4.1 J	7.8	1300	3.1 J	< 0.25	130	< 0.5	8.39 J	3.17	19	28 J	--	--
VLT-XRF-11	0.5-1	5/12/2010	6600	2.1 J	7.6	59	< 0.25	< 2.1	< 0.25	2600	18	4.1	630	16000	3.2	5700	52	0.2	4.2 J	10	1200	2.2 J	< 0.25	98	< 0.5	7.56 J	3.04	24	< 12	--	--
VLT-XRF-11	2.5-3	5/12/2010	6200	1.7 J	6.6	67	< 0.25	< 2.1	< 0.25	2500	25	3.6	860	11000	3.5	4500	37	0.2	4.7 J	9	1600	2.4 J	< 0.25	98	< 0.5	10.4 J	3.84	19	44 J	--	--
VLT-XRF-12	0.5-1	5/12/2010	4300	3.6 J	5.4	60	< 0.25	< 2.1	< 0.25	2400	11	3	700	8400	2.7	3600	26	0.2	2.7 J	5.7	580	2 J	< 0.25	76	< 0.49	6.47 J	2.54	12	< 12	--	--
VLT-XRF-12	2.5-3	5/12/2010	7100	1.3 J	5.5	57	0.26 J	< 2.1	< 0.25	3200	38	3.4	710	11000	3.1	6000	44	0.2	4.1 J	8.1	1400	2.8 J	< 0.25	160	< 0.5	5.75 J	1.63	22	< 12	--	--
VLT-XRF-13	0.5-1	5/12/2010	7400	1.3 J	5.3	68	< 0.25	< 2.1	< 0.25	3200	25	4.5	1000	14000	4.1	6300	52	0.19	3.7 J	9.6	1500	2.8 J	< 0.25	140	< 0.5	5.61 J	1.26	25	13 J	--	--
VLT-XRF-13	2.5-3	5/12/2010	7000	0.88 J	5.4	40	< 0.25	< 2.1	< 0.25	3000	24	2.5	900	8800	2.1 J	6500	40	0.14	3.5 J	11	440	3.6 J	< 0.25	150	< 0.49	3.46 J	0.943	17	< 12	--	--
VLT-XRF-14	0.5-1	5/12/2010	6100	1.9 J	6.5	60	< 0.25	< 2.1	< 0.25	2600	32	3	640	8500	3.3	4700	40	0.19	4.5 J	7.5	1800	1.4 J	< 0.25	150	< 0.5	7.58 J	1.08	18	< 12	--	--
VLT-XRF-14	2.5-3	5/12/2010	6200	1.6 J	7.9	61	< 0.25	< 2.1	< 0.25	2400	25	3	1000	11000	4	5000	44	0.21	5.2	8.4	1600	2.3 J	< 0.25	140	< 0.5	9.17 J	1.7	22	< 12	--	--
VLT-XRF-15	0.5-1	5/12/2010	5700	1.3 J	6.8	47	< 0.25	< 2.1	< 0.25	2600	21	2.6	910	10000	2.9	4500	35	0.2	3.3 J	6.4	910	3.5 J	< 0.25	130	< 0.5	6.12 J	1.14	16	< 12	--	--
VLT-XRF-15	2.5-3	5/12/2010	5900	< 0.74	5.8	52	< 0.25	< 2.1	< 0.25	3400	21	3	770	11000	3	4900	35	0.18	2.6 J	15	880	4.1 J	< 0.25	110	< 0.5	5.47 J	0.99	17	< 12	--	--
VLT-XRF-15	1.75-2.25	5/12/2010	5500	1.3 J	10	55	< 0.25	< 2.1	< 0.25	1700	28	2.9	670	8600	5.7	4100	31	0.28	3.5 J	8.2	980	3.7 J	< 0.25	140	0.61 J	6.03 J	0.735	12	< 12	--	--
VLT-XRF-16	0.5-1	5/13/2010	12000	1.3 J	4.6	67	< 0.25	4.5 J	< 0.25	4500	19	3.5	1400	15000	2.9	8000	56	0.23	3.7 J	7.5	1400 J	3.4 J	< 0.25	380 J	1.6 J	5.52 J	1.2	31	< 12	--	--
VLT-XRF-16	2.5-3	5/13/2010	14000	2 J	4.3	77	0.3 J	< 2.1	< 0.25	5400	24	3	1000	15000	3.5	8500	50	0.36	3.6 J	7.5	2000 J	3.7 J	< 0.25	230 J	0.82 J	5.43 J	1.48	33	< 12	--	--
VLT-XRF-17	0.5-1	5/13/2010	12000	1.6 J	5.8	75	< 0.25	< 2.1	< 0.25	4900	28	4.6	1200	11000	4.1	7800	47	0.27	4.6 J	13	1400 J	4 J	< 0.25	250 J	< 0.5	6.44 J	1.29	29	< 12	--	--
VLT-XRF-17	2.5-3	5/13/2010	10000	1.1 J	4.8	75	< 0.25	< 2.1	< 0.25	3600	31	3.3	1000	14000	3.5	5600	42	0.091	2.5 J	7.6	1800 J	2.8 J	< 0.25	220 J	< 0.5	6.54 J	1.06	27	< 12	--	--
VLT-XRF-18	0.5-1	5/13/2010	11000 J	1.1 J	4.8	85	0.33 J	< 4.2	< 0.25	4100	28	4.4	1700	17000	3.2	6900	51	0.14	3.2 J	9.9	2100 J	4.9 J	0.27 J	200 J	< 0.5	7.22 J	1.61	34 J	< 13	--	--
VLT-XRF-18	2.5-3	5/13/2010	12000	2 J	7.4	98	< 0.25	< 2.1	< 0.25	4400	20	4.2	1200	15000	3.6	7500	55	0.17	3.7 J	9.2	2300 J	3 J	< 0.25	180 J	< 0.49	7.28 J	1.49	31	12 J	--	--
VLT-XRF-19	0.5-1	5/13/2010	16000	< 0.74	4.4	140	< 0.25	< 2.1	< 0.25	6700	28	7.1	930	16000	4.9	12000	69	0.11	2.9 J	14	4200 J	3.1 J	< 0.25	220 J	< 0.5	4.9 J	1.06	55	44 J	--	--
VLT-XRF-19	2.5-3	5/13/2010	14000	< 0.74	3.9	57	< 0.25	< 2.1	< 0.25	4700	32	3.1	730	9800	3.6	12000	71	0.07	2.6 J	9.6	2100 J	1.5 J	< 0.25	190 J	< 0.5	3.7 J	0.787	39	13 J	--	--
VLT-XRF-20	0.5-1	5/13/2010	11000	2.1 J	7.5	87	< 0.25	< 2.1	< 0.25	3800	17	3.4	1500	12000	3.8	7000	52	0.25	5.4	8.3	1700 J	3.7 J	< 0.25	190 J	< 0.49	6.68 J	1.46	25	< 12	--	--
VLT-XRF-20	2.5-3	5/13/2010	6500	2 J	7.4	44	< 0.25	< 2.1	< 0.25	2900	17	2.7	860	9800	2.6	5700	41	0.18	1.8 J	6.5	870	3.4 J	< 0.25	100	< 0.5	6.28 J	0.875	18	< 13	--	--
VLT-XRF-21	0.5-1	5/13/2010	7600	2 J	8	57	< 0.25	< 2.1	< 0.25	2900	19	4	760	15000	3.6	7000	57	0.36	2.7 J	8.4	1400	3.5 J	< 0.25	110	0.93 J	7.45 J	1.38	28	18 J	--	--
VLT-XRF-21	2.5-3	5/13/2010	8800	1.7 J	7.9	59	< 0.25	< 2.1	< 0.25	3400	15	4.3	1000	16000	2.9	8600	67	0.26	2.3 J	9.2	1500	3.7 J	< 0.25	99	< 0.49	6.86 J	1.36	27	19 J	--	--
VLT-XRF-22	0.5-1	5/13/2010	6300	5.4	8.5	59	< 0.25	< 2.1	< 0.25	3000	18	4.3	910	9900	2.8	5100	36	0.93	2.4 J	8.2	540	2.2 J	< 0.25	99	< 0.49	6.64 J	1.22	16	15 J	--	--
VLT-XRF-22	2.5-3	5/13/2010	6500	5.3	8.3	60	< 0.25	< 2.1	< 0.25	3300	17	4	1100	9700	2.8	5300	34	0.8	2.4 J	8.5	520	2.7 J	< 0.25	100	< 0.5	5.92 J	1.17	17	14 J	--	--
VLT-XRF-23	0.5-1	5/13/2010	7600	1.2 J	6.5	54	< 0.25	< 2.1	< 0.25	2400	40	9.6	1000	19000	3.5	6300	75	0.044	2.3 J	25	1500	2 J	< 0.25	88	< 0.5	11.2 J	3.74	26	1800 J	--	--
VLT-XRF-23	2.5-3	5/13/2010	3300	0.81 J	3.8	40	< 0.25	< 2.1	< 0.25	1300	23	5.3	1600	7000	3.5	2500	44	0.049	1.7 J	11	720	2.8 J	< 0.25	48 J	< 0.49	12.6 J	2.46	17	76 J	--	--

Appendix 6A, Table 6A-2
Summary of Analytical Results - Metals and Radionuclides in Soil
2010 Characterization of Potential Cover Materials
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	Aluminum (mg/Kg)	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Boron (mg/Kg)	Cadmium (mg/Kg)	Calcium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Iron (mg/Kg)	Lead (mg/Kg)	Magnesium (mg/Kg)	Manganese (mg/Kg)	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Potassium (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Sodium (mg/Kg)	Thallium (mg/Kg)	Thorium (mg/Kg)	Uranium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)	Radium-226 (pCi/g)	Radium-228 (pCi/g)
2010 OU-6 Oxide Tailings Area[1]																															
VLT-XRF-24	0.5-1	5/13/2010	3500	12	17	57	0.26 J	< 2.1	< 0.25	1700	15	9.6	1600	7800	3.5	2800	40	0.83	4.8 J	11	450	5.5	< 0.25	93	< 0.5	7.85 J	1.37	23	< 12	--	--
VLT-XRF-24	2.5-3	5/13/2010	5600	7.5	12	55	< 0.25	< 2.1	< 0.25	2700	17	6.7	940	14000	2.8	4400	32	0.45	3.7 J	7.6	800	3.6 J	< 0.25	120	< 0.5	8.59 J	1.41	18	< 12	--	--
CM-VLT-01	0-4	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.37	1.52	--	--	3.13 +/-0.41	1.3 +/-0.22
CM-VLT-02	0-1	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.9	2.18	--	--	3.06 +/-0.4	1.37 +/-0.24
CM-VLT-03	0-4	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.84	1.92	--	--	5.77 +/-0.73	1.24 +/-0.21
CM-VLT-04	0-4	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.59	0.924	--	--	3.05 +/-0.41	0.835 +/-0.17 J
CM-VLT-05	0-5.33	10/1/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.38	1.23	--	--	2.17 +/-0.3	0.906 +/-0.15 J
CM-VLT-06	0-5.58	10/1/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.14	1	--	--	3.23 +/-0.41	1.07 +/-0.18
CM-VLT-07	0-4	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.49	1.75	--	--	2.81 +/-0.38	1.45 +/-0.23
CM-VLT-08	0-4	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.3	3.25	--	--	8.48 +/-1.1	1.71 +/-0.28
CM-VLT-09	0-5.58	10/1/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.77	1.47	--	--	3.07 +/-0.38	1.28 +/-0.21
CM-VLT-10	0-4	10/6/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.04	1.69	--	--	2.11 +/-0.27	1.21 +/-0.19

Note(s)
1 - ARC, 2011. Revised Data Summary Report for the Characterization of Potential Cover Materials, Yerington Mine Site, Lyon County, Nevada. June.

Abbreviation(s)
< = less than
-- = no data
ID = identification
ft bgs = feet below ground surface
J = estimated value
mg/Kg = milligram per kilogram
pCi/g = picocurie per gram
UJ = estimated detection limit

Appendix 6A, Table 6A-3
Summary of Analytical Results - MWMP Metals in Soil
2010 Characterization of Potential Cover Materials
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	MWMP Aluminum (mg/L)	MWMP Antimony (mg/L)	MWMP Arsenic (mg/L)	MWMP Barium (mg/L)	MWMP Beryllium (mg/L)	MWMP Boron (mg/L)	MWMP Cadmium (mg/L)	MWMP Calcium (mg/L)	MWMP Chromium (mg/L)	MWMP Cobalt (mg/L)	MWMP Copper (mg/L)	MWMP Iron (mg/L)	MWMP Lead (mg/L)	MWMP Magnesium (mg/L)	MWMP Manganese (mg/L)	MWMP Mercury (mg/L)	MWMP Molybdenum (mg/L)	MWMP Nickel (mg/L)	MWMP Potassium (mg/L)	MWMP Selenium (mg/L)	MWMP Silver (mg/L)	MWMP Sodium (mg/L)	MWMP Thallium (mg/L)	MWMP Uranium (mg/L)	MWMP Vanadium (mg/L)	MWMP Zinc (mg/L)
2010 OU-6 Oxide Tailings Area[1]																												
CM-VLT-01	0-4	10/18/2010	39	0.002 J	< 0.0045	0.037	0.011	< 0.2	0.0035 J	540	< 0.0045	0.57 J	190 J	0.3 J	0.0011 J	170	5.4 J	0.00016 J	0.0022 J	0.52 J	23 J	0.016	< 0.0005	25 J	< 0.001	0.056	< 0.004	0.72
CM-VLT-02	0-1	10/13/2010	60	< 0.03	< 0.09	< 0.045 UJ	< 0.01	< 0.5	< 0.01	550	< 0.09	0.75	400	< 0.38	< 0.02	230	4.7	0.0004	< 0.02	0.66	< 9.2	0.052 J	< 0.01	14	< 0.02	0.15	< 0.08	1 J
CM-VLT-03	0-4	10/13/2010	41	< 0.03	< 0.09	< 0.036 UJ	< 0.01	< 0.5	< 0.01	510	< 0.09	0.32	320	< 0.38	< 0.02	160	2.6	< 0.0001	< 0.02	0.38	13	< 0.05	< 0.01	16	< 0.02	0.068 J	< 0.08	0.46 J
CM-VLT-04	0-4	10/13/2010	53	0.00065 J	0.0029	0.031	0.0073	< 0.5	0.0044	520	0.0021	0.36	420	< 1 UJ	0.0017	230	2.3	0.00013 J	0.00085 J	0.31	32	0.01	0.00012 J	36	0.003	0.034	< 0.0008	0.62
CM-VLT-05	0-5.33	10/13/2010	14	0.0011 J	0.0056	0.034	0.0036	< 0.5	0.0032	410	0.001 J	0.13	260	< 0.38	0.001	93	1.3	< 0.0001	0.00031 J	0.15	20	0.0055	< 0.0001	14	0.0086	0.016	0.0008 J	0.3
CM-VLT-06	0-5.58	10/12/2010	12	0.00065 J	0.0015	0.048	0.0025	< 0.5	0.0018	480	0.0009 J	0.097	280	< 0.38	0.00041 J	130	1.4	< 0.0001	< 0.0002	0.16	32	0.011	< 0.0001	27	0.00077 J	0.013	0.001 J	0.33
CM-VLT-07	0-4	10/18/2010	35	< 0.0015	0.009	0.021	0.011	< 0.2	0.011	500	< 0.0045	0.59 J	170 J	0.35 J	< 0.001	120	3.2 J	0.00018 J	0.0021 J	0.43 J	13 J	0.01	< 0.0005	22 J	< 0.001	0.043	< 0.004	0.56
CM-VLT-08	0-4	10/18/2010	80	< 0.0015	< 0.0045	0.011	0.017	< 1	0.0038 J	480	< 0.0045	1.1 J	450 J	< 0.75	< 0.001	190	6.7 J	0.00057	0.0048 J	0.83 J	< 18	0.037	< 0.0005	17 J	< 0.001	0.29	< 0.004	1.1
CM-VLT-09	0-5.58	10/13/2010	25	0.0015 J	0.001	0.037	0.0038	< 0.5	0.0015	510	0.0017 J	0.18	190	< 0.38	0.00034 J	83	1.4	0.00016 J	< 0.0002	0.19	17	0.0034	< 0.0001	9.7 J	0.00022 J	0.022	< 0.0008	0.19
CM-VLT-10	0-4	10/18/2010	41	< 0.0015	< 0.0045	0.018	0.0079	< 0.4	0.0035 J	400	< 0.0045	0.73 J	200 J	< 0.3	< 0.001	170	5.8 J	0.00013 J	0.002 J	0.51 J	15 J	0.036	< 0.0005	21 J	< 0.001	0.048	< 0.004	0.8

Note(s)

1. ARC, 2011. Revised Data Summary Report for the Characterization of Potential Cover Materials, Yerington Mine Site, Lyon County, Nevada. June.

Abbreviation(s)

< = less than
ID = identification
ft bgs = feet below ground surface
J = estimated value
mg/L = milligram per liter
MWMP = meteroic water mobility procedure

Appendix 6A, Table 6A-4
Summary of Analytical Results - Radionuclides in Soil
2018 OU-6 Pre-Design Component Investigation
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	Radium-226 (pCi/g)	Radium-228 (pCi/g)
2018 OU-6 Oxide Tailings Area[1]				
VLTSB-01	0-5	9/12/2018	4.30 +/-0.373	0.912 +/-0.158 J
VLTSB-01	10-15	9/12/2018	2.92 +/-0.290	0.751 +/-0.184 J
VLTSB-01	20-25	9/12/2018	3.67 +/-0.314	0.910 +/-0.232 J
VLTSB-02	0-5	9/12/2018	1.70 +/-0.205 J	0.906 +/-0.135 J
VLTSB-02	10-15	9/12/2018	3.49 +/-0.334 J	0.993 +/-0.156 J
VLTSB-02	20-25	9/12/2018	2.10 +/-0.263 J	0.791 +/-0.134 J
VLTSB-03	0-5	9/12/2018	3.49 +/-0.299 J	1.07 +/-0.186 J
VLTSB-03	10-15	9/13/2018	3.42 +/-0.330 J	0.953 +/-0.190 J
VLTSB-03	20-25	9/13/2018	2.83 +/-0.280 J	0.776 +/-0.193 J
VLTSB-04	0-5	9/13/2018	1.42 +/-0.227 J	0.777 +/-0.131 J
VLTSB-04	10-15	9/13/2018	2.21 +/-0.245 J	0.933 +/-0.177 J
VLTSB-04	20-25	9/13/2018	--	--
VLTSB-05	0-5	9/13/2018	3.04 +/-0.302	0.887 +/-0.200 J
VLTSB-05	10-15	9/13/2018	2.00 +/-0.231	0.918 +/-0.127 J
VLTSB-05	20-25	9/13/2018	2.59 +/-0.254	0.797 +/-0.132 J
VLTSB-06	0-5	9/13/2018	3.29 +/-0.294	0.893 +/-0.191 J
VLTSB-06	10-15	9/14/2018	8.76 +/-0.569	0.884 +/-0.216 J
VLTSB-06	20-25	9/14/2018	5.79 +/-0.442	1.31 +/-0.248
VLTSB-07	0-5	9/11/2018	4.62 +/-0.379	1.08 +/-0.217
VLTSB-07	10-15	9/11/2018	4.74 +/-0.387	0.960 +/-0.234 J
VLTSB-07	20-25	9/11/2018	1.44 +/-0.212	0.610 +/-0.115 J
VLTSB-08	0-5	9/11/2018	2.12 +/-0.239 J	0.940 +/-0.170 J
VLTSB-08	10-15	9/11/2018	3.84 +/-0.341 J	1.61 +/-0.199 J
VLTSB-08	20-25	9/11/2018	5.99 +/-0.458 J	1.60 +/-0.208 J
VLTSB-09	0-5	9/11/2018	2.73 +/-0.275 J	1.09 +/-0.190 J
VLTSB-09	10-15	9/12/2018	3.24 +/-0.306 J	0.715 +/-0.179 J
VLTSB-09	20-25	9/12/2018	2.06 +/-0.246 J	0.785 +/-0.171 J
VLTSB-10	0-5	9/14/2018	2.18 +/-0.240	0.761 +/-0.155 J
VLTSB-10	10-15	9/17/2018	3.73 +/-0.327	0.928 +/-0.196 J
VLTSB-10	20-25	9/17/2018	3.67 +/-0.328	0.844 +/-0.189 J
VLTSB-11	0-5	9/14/2018	3.33 +/-0.299 J	0.666 +/-0.169 J
VLTSB-11	10-15	9/14/2018	3.68 +/-0.326 J	1.04 +/-0.149 J
VLTSB-11	20-25	9/14/2018	3.96 +/-0.337 J	0.892 +/-0.186 J
VLTSB-12	0-5	9/17/2018	2.35 +/-0.248	1.31 +/-0.156
VLTSB-12	10-15	9/18/2018	7.31 +/-0.485	0.686 +/-0.210 J
VLTSB-12	20-25	9/18/2018	2.50 +/-0.257	1.14 +/-0.139

Note(s)
1. Wood, 2020b. 2018 Vat Leach Tailings and South Waste Rock Technical Memorandum, Anaconda Copper Mine Site, Lyon County, Nevada. Prepared for Atlantic Richfield Company. April 9

Abbreviation(s)
-- = no data
ft bgs = feet below ground surface
ID = identification
J = estimated value
OU = operable unit
pCi/g = picocurie per gram
VLT = vat leach tailings

Appendix 6A, Table 6A-5
Summary of Analytical Results - Acid Base Account in Soil
2018 OU-6 Pre-Design Component Investigation
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	Paste pH (s.u.)	Acid Neutralization Potential - NV Mod(TCaCO3/KT)	Acid Generation Potential - NV Mod(TCaCO3/KT)	Net Neutralization Potential - NV Mod(TCaCO3/KT)	ANP to AGP Ratio (calc) (TCaCO3/KT)	Sulfur, Total (%)	H2O-Soluble Sulfate (%)	Non-Extractable Sulfur (%)	Non-H20 Sulfate Sulfur (%)	Pyritic Sulfur (%)	AGP-H2O Soluble Sulfur (TCaCO3/KT)	AGP-Pyritic Sulfur (TCaCO3/KT)	Net Acid Generation pH (s.u.)	Net Acid Generation @ pH 4.5 (Kg H2SO4/T)	Net Acid Generation @ pH 7.0 (Kg H2SO4/T)	Net Acid Generation Test (calc) (Kg H2SO4/T)
2018 OU-6 Oxide Tailings Area[1]																		
VLTSB-01	0-5	9/12/2018	4.82	1.68	6.01	-4.33	0.238	0.226	0.182	<0.0200	0.0431	<0.0200	5.7	0.312	4.7	--	2.4	2.4
VLTSB-01	20-25	9/12/2018	4.89	1.75	6.19	-4.44	0.276	0.202	0.188	<0.0200	<0.0200	<0.0200	5.88	0.312	4.9	--	1.8	1.8
VLTSB-02	0-5	9/12/2018	5.31	1.19	3.54	-2.35	0.368	0.103	0.103	<0.0200	<0.0200	<0.0200	3.23	0.312	4.7	--	5.9	5.9
VLTSB-02	20-25	9/12/2018	5.5	2.17	3.78	-1.6	0.627	0.111	0.111	<0.0200	<0.0200	<0.0200	3.46	0.312	5.2	--	3.9	3.9
VLTSB-04	0-5	9/13/2018	5.39	1.14	3.81	-2.67	0.326	0.112	0.112	<0.0200	<0.0200	<0.0200	3.49	0.312	5.1	--	4.3	4.3
VLTSB-04	20-25	9/13/2018	5.22	2.98	4.58	-1.6	0.698	0.137	0.137	<0.0200	<0.0200	<0.0200	4.27	0.312	5	--	2.9	2.9
VLTSB-05	0-5	9/13/2018	5.53	3.13	3.15	-0.0231	1.1	0.0909	0.0909	<0.0200	<0.0200	<0.0200	2.84	0.312	5	--	4.1	4.1
VLTSB-05	20-25	9/13/2018	5.76	1.52	2.7	-1.18	0.636	0.0764	0.0764	<0.0200	<0.0200	<0.0200	2.39	0.312	5.8	--	1.4	1.4
VLTSB-09	0-5	9/11/2018	5.85	4.32	5.28	-0.955	0.87	0.159	0.159	<0.0200	<0.0200	<0.0200	4.96	0.312	5.2	--	4.3	4.3
VLTSB-09	20-25	9/12/2018	5.14	1.57	3.88	-2.31	0.44	0.114	0.114	<0.0200	<0.0200	<0.0200	3.57	0.312	5	--	4.5	4.5
VLTSB-12	0-5	9/17/2018	5.39	2.89	6.09	-3.2	0.493	0.188	0.185	<0.0200	<0.0200	<0.0200	5.78	0.312	5.5	--	1.6	1.6
VLTSB-12	20-25	9/18/2018	5.06	1.64	5.32	-3.68	0.327	0.16	0.16	<0.0200	<0.0200	<0.0200	5.01	0.312	5.1	--	1.6	1.6

Note(s)

1. Wood, 2020b. 2018 Vat Leach Tailings and South Waste Rock Technical Memorandum, Anaconda Copper Mine Site, Lyon County, Nevada. Prepared for Atlantic Richfield Company. April 9

Abbreviation(s)

< = less than
-- = no data
% = percent
AGP = acid generation potential
ANP = acid neutralization potential
ft bgs = feet below ground surface
H20 = water
ID = identification
Kg H2SO4/T = kiologram sulfuric acid equivalent per ton
s.u. = standard unit
TCaCO3/KT = ton calcium carbonate equivalent per kiloton
VLT = vat leach tailings

Appendix 6A, Table 6A-6
Summary of Analytical Results - MWMP Metals in Soil
2018 OU-6 Pre-Design Component Investigation
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	MWMP Aluminum (mg/L)	MWMP Antimony (mg/L)	MWMP Arsenic (mg/L)	MWMP Barium (mg/L)	MWMP Beryllium (mg/L)	MWMP Boron (mg/L)	MWMP Cadmium (mg/L)	MWMP Calcium (mg/L)	MWMP Chromium (mg/L)	MWMP Cobalt (mg/L)	MWMP Copper (mg/L)	MWMP Iron (mg/L)	MWMP Lead (mg/L)	MWMP Lithium (mg/L)	MWMP Magnesium (mg/L)	MWMP Manganese (mg/L)	MWMP Mercury (mg/L)	MWMP Molybdenum (mg/L)	MWMP Nickel (mg/L)	MWMP Phosphorus (mg/L)	MWMP Potassium (mg/L)	MWMP Selenium (mg/L)	MWMP Silver (mg/L)	MWMP Sodium (mg/L)	MWMP Strontium (mg/L)	MWMP Thallium (mg/L)	MWMP Tin (mg/L)	MWMP Titanium (mg/L)	MWMP Vanadium (mg/L)	MWMP Zinc (mg/L)
2018 OU-6 Oxide Tailings Area[1]																																
VLTSB-01	0-5	9/12/2018	44	< 0.0005	0.0021	0.0032	0.0051	< 0.25	0.0023	460	0.0019 J	0.29	240	< 0.5	0.014	0.44 J	130	2.5	0.0002	< 0.0005	0.27	2.3	3 J	0.019	< 0.0005	15	0.65	0.0005 J	< 0.5	< 0.025	< 0.001	0.46
VLTSB-01	20-25	9/12/2018	92	0.0011 J	0.0021	0.0053	0.01	< 0.5	0.0066	520	0.015	0.94	480	3.1	0.0083 J	0.78 J	270	5.5	0.0011	< 0.0005	0.68	3.8 J	9 J	0.028	< 0.0005	29	1.5	< 0.0005	< 1	< 0.05	< 0.001	1.1
VLTSB-02	0-5	9/12/2018	26	0.00094 J	0.0036	0.011	0.0041	< 0.25	0.0031	460	0.0015 J	0.21	240	< 0.5	0.19	0.29 J	110	1.9	0.00031	< 0.0005	0.19	1.1 J	10	0.012	< 0.0005	17	0.61	0.001	< 0.5	< 0.025	< 0.001	0.41
VLTSB-02	20-25	9/12/2018	32	0.0015 J	0.0027	0.028	0.0046	< 0.25	0.0021	480	0.0042	0.31	290	6.5	0.061	0.38 J	150	3.4	0.00023	< 0.0005	0.27	1.5 J	27	0.013	< 0.0005	29	2.8	< 0.0005	< 0.5	< 0.025	< 0.001	0.62
VLTSB-04	0-5	9/13/2018	33	0.0017 J	0.0027	0.035	0.0037 J	< 0.25	0.0021	540	0.0014 J	0.27	280	5.8 J	0.076 J	0.54 J	180	3.2 J	0.0007	< 0.0005	0.23	1.2 J	34	0.014 J	< 0.0005	32	4.8 J	< 0.0005	< 0.5	< 0.025	< 0.001	0.44
VLTSB-04	20-25	9/13/2018	30	0.0019 J	0.0033	0.037	0.0036	< 0.25	0.0021	510	0.0013 J	0.25	310	5.1	0.13	0.5 J	160	3.1	0.00042	< 0.0005	0.21	2.3	31	0.013	< 0.0005	29	4.4	< 0.0005	< 0.5	< 0.025	< 0.001	0.43
VLTSB-05	0-5	9/13/2018	15	0.0044	0.0027	0.02	0.0049	< 0.5	0.0034	480	0.00086 J	0.25	380	< 1	0.0016	0.5 J	120	2.8	0.0006	0.0031	0.23	< 2	23	0.013	< 0.0005	28	3.3	0.0013 J	< 1	< 0.05	< 0.001	0.52
VLTSB-05	20-25	9/13/2018	11	0.0013 J	0.002	0.034	0.0026	< 0.5	0.0024	390	0.001 J	0.16	290	1.9 J	0.0049	< 0.5	85	1.2	0.0012	< 0.0005	0.16	< 2	18	0.019	< 0.0005	25	2	0.0056 J	< 1	< 0.05	< 0.001	0.29
VLTSB-09	0-5	9/11/2018	14	0.00062 J	0.0046	0.008	0.0047	< 0.25	0.0021	480	0.0007 J	0.3	260	< 0.5	0.21	0.26 J	82	1.9	0.0016	0.00055 J	0.18	1.6 J	12	0.0097	< 0.0005	10	0.66	< 0.0005	< 0.5	< 0.025	< 0.001	0.34
VLTSB-09	20-25	9/12/2018	34	0.0019 J	0.0033	0.024	0.0037	< 0.25	0.0026	450	0.0025	0.15	270	7.9	0.11	0.43 J	170	2.5	0.0011	< 0.0005	0.24	< 1	25	0.025	< 0.0005	26	1.6	0.0016	< 0.5	< 0.025	< 0.001	0.6
VLTSB-12	0-5	9/17/2018	25	0.00078 J	0.016	0.019	0.0058	0.16 J	0.049	490	0.0018 J	1.2	93	0.25 J	0.0032	0.21 J	170	24	0.0011	< 0.0005	1.3	1.4	27	0.08	< 0.0005	36	0.85	0.033	< 0.25	< 0.013	< 0.001	3.5
VLTSB-12	20-25	9/18/2018	32	< 0.0005	0.0082	0.022	0.0048	< 0.25	0.028	480	0.0041	0.85	220	5.2	0.012	0.41 J	190	17	0.013	< 0.0005	0.83	2	28	0.05	< 0.0005	34	1.4	0.019	< 0.5	< 0.025	< 0.001	2.3

Note(s)

1. Wood, 2020b. 2018 Vat Leach Tailings and South Waste Rock Technical Memorandum, Anaconda Copper Mine Site, Lyon County, Nevada. Prepared for Atlantic Richfield Company. April 9

Abbreviation(s)

< = less than
ID = identification
ft bgs = feet below ground surface
J = estimated value
mg/L = milligram per liter
MWMP = meteroic water mobility procedure
OU = operable unit
VLT = vat leach tailings

Appendix 6A, Table 6A-7
Summary of Analytical Results - MWMP Radionulides and General Chemistry in Soil
2018 OU-6 Pre-Design Component Investigation
Anaconda Copper Mine Site
Lyon County, Nevada

Location ID	Depth (ft bgs)	Sample Date	MWMP Radium-226 (pCi/L) (Total Alpha Emitting Radium Isotopes)	MWMP Radium-228 (pCi/L)	MWMP Alkalinity as $CaCO_3$ (mg/L)	MWMP Alkalinity, Bicarbonate as $CaCO_3$ (mg/L)	MWMP Chloride (mg/L)	MWMP Fluoride (mg/L)	MWMP Nitrogen, Nitrate+Nitrite (as N) (mg/L)	MWMP Nitrogen, Total Kjeldahl (mg/L)	MWMP Sulfate (mg/L)	MWMP Total Dissolved Solids (mg/L)	MWMP WAD Cyanide (mg/L)	MWMP pH (s.u.)
2018 OU-6 Oxide Tailings Area[1]														
VLTSB-01	0-5	9/12/2018	< 0.392 +/-0.194	< 1.16 +/-0.693	< 4.0	< 4.0	3.9	9.5	<1.5	0.71	2300	3600 J	< 0.013	3.86
VLTSB-01	20-25	9/12/2018	< 0.423 +/-0.187	< 1.40 +/-0.723	< 4.0	< 4.0	8.2	19	<1.5	0.81	3600	5700 J	< 0.013	3.88
VLTSB-02	0-5	9/12/2018	1.04 +/-0.476	< 1.08 +/-0.605	< 4.0	< 4.0	5.0	9.4	<1.5	1.2	2500	3900	< 0.013	4
VLTSB-02	20-25	9/12/2018	< 0.435 +/-0.282	< 1.09 +/-0.617	< 4.0	< 4.0	10	13	<1.5	0.31	2700	4100	< 0.013	4.08
VLTSB-04	0-5	9/13/2018	0.494 +/-0.328 J	1.23 +/-0.566	< 4.0	< 4.0	11	15 J	<1.5	0.59	2900	4200	< 0.013	4.09
VLTSB-04	20-25	9/13/2018	1.35 +/-0.511	< 1.15 +/-0.634	< 4.0	< 4.0	8.2	11	<1.5	0.68	2600	4100 J	< 0.013	4.06
VLTSB-05	0-5	9/13/2018	0.663 +/-0.398 J	< 1.94 +/-1.19	< 4.0	< 4.0	6.3	10	<1.5	0.93	2700	4300	< 0.013	4.26
VLTSB-05	20-25	9/13/2018	1.66 +/-0.597	2.35 +/-0.844	< 4.0	< 4.0	7.7	5.8	<1.5	0.43	2100	3300	< 0.013	4.24
VLTSB-09	0-5	9/11/2018	< 0.437 +/-0.268	< 1.01 +/-0.585	< 4.0	< 4.0	2.3	4.8	<1.5	0.77	2100	3000	< 0.013	4.26
VLTSB-09	20-25	9/12/2018	0.419 +/-0.324 J	< 0.939 +/-0.539	< 4.0	< 4.0	9.6	18	<1.5	0.69	2800	4400	< 0.013	4.07
VLTSB-12	0-5	9/17/2018	0.482 +/-0.342 J	< 1.12 +/-0.650	< 4.0	< 4.0	4.0 J	8.0	3.5	4.9	2500	3900 J	< 0.013	4.07
VLTSB-12	20-25	9/18/2018	< 0.466 +/-0.352	< 1.03 +/-0.627	< 4.0	< 4.0	6.0	7.8	<1.5	2.5	2600	4000 J	< 0.013	4.04

Note(s)
1 - Wood, 2020b. 2018 Vat Leach Tailings and South Waste Rock Technical Memorandum, Anaconda Copper Mine Site, Lyon County, Nevada. Prepared for Atlantic Richfield Company. April 9

Abbreviation(s)
< = less than
$CaCO_3$ = calcium carbonate
ID = identification
ft bgs = feet below ground surface
J = estimated value
mg/L = milligram per liter
MWMP = meteroic water mobility procedure
N = nitrogen
OU = operable unit
s.u. = standard units
VLT = vat leach tailings
WAD = weak acid dissociable

Appendix 6A, Table 6A-8
Summary of Standing Rain Water Results
2013 Opportunistic Sampling Event
Anaconda Copper Mine Site
Lyon County, Nevada

2013 Standing Rain Water Sampling[1]	
Field Location	SRW-VLT-1
Sample Date	7/9/2013
Dissolved Metals	
Aluminum (mg/L)	4.6
Antimony (mg/L)	< 0.0003
Arsenic (mg/L)	< 0.0009
Barium (mg/L)	0.0018
Beryllium (mg/L)	0.0019
Boron (mg/L)	< 0.2
Cadmium (mg/L)	0.0011
Calcium (mg/L)	87
Chromium (mg/L)	< 0.0009
Cobalt (mg/L)	0.11
Copper (mg/L)	130
Iron (mg/L)	< 0.2 UJ
Lead (mg/L)	< 0.0002
Lithium (mg/L)	< 0.3
Magnesium (mg/L)	58
Manganese (mg/L)	< 1.8 UJ
Mercury (mg/L)	< 0.0001
Molybdenum (mg/L)	< 0.0002
Nickel (mg/L)	0.085
Phosphorus (mg/L)	2.9
Potassium (mg/L)	< 3.7
Selenium (mg/L)	0.0083
Silica (mg/L)	11 J
Silver (mg/L)	< 0.0001
Sodium (mg/L)	8.6 J
Strontium (mg/L)	< 0.05
Thallium (mg/L)	0.00021 J
Tin (mg/L)	< 0.12
Titanium (mg/L)	< 0.02
Uranium (mg/L)	0.023
Vanadium (mg/L)	< 0.0008
Zinc (mg/L)	0.46
Radiochemical Parameters	
Gross Alpha (pCi/L)	< 8.17 +/-6.6 UJ
Gross Beta (pCi/L)	10.8 +/-4.9 J
Radium-226 (pCi/L)	< 0.181 +/-0.21 UJ
Radium-228 (pCi/L)	< -0.112 +/-0.32 UJ
Thorium-228 (pCi/L)	0.213 +/-0.17 J
Thorium-230 (pCi/L)	< 0.0854 +/-0.11
Uranium-234 (pCi/L)	9.21 +/-2.4
Uranium-235 (pCi/L)	0.318 +/-0.32 J
Uranium-238 (pCi/L)	8.18 +/-2.2
General Chemical Parameters	
Alkalinity as $CaCO_3$ (mg/L)	< 4
Alkalinity, Bicarbonate as $CaCO_3$ (mg/L)	< 4
Alkalinity, Carbonate as $CaCO_3$ (mg/L)	< 4
Alkalinity, Hydroxide as $CaCO_3$ (mg/L)	< 4
Chloride (mg/L)	2.1
Fluoride (mg/L)	3.3 J
Nitrogen, Nitrate as N (mg/L)	0.52 J
Nitrogen, Nitrate&Nitrite as N (mg/L)	0.52 J
Nitrogen, Nitrite as N (mg/L)	< 0.11 UJ
pH (s.u.)	4.91 J
Sulfate (mg/L)	720
Total Dissolved Solids (mg/L)	1200
Total Organic Carbon (mg/L)	4.7
Field Parameters	
Dissolved Oxygen Field (mg/L)	5.55
pH Field (s.u.)	4.24
Redox Potential Field (mV)	2527.5
Specific Conductance Field (uS/cm)	1431
Temperature Field (degrees C)	33.66
Turbidity (NTU)	21.87

Note(s)
1 - Investigation details are provided in Appendix H of the FRIR (CEC, 2020)

Abbreviation(s)
< = less than
$CaCO_3$ = calcium carbonate
C = celcius
FD = Field Duplicate sample
FRIR = OU-1 Final Remedial Investigation Report
ID = Identification
J = estimated result
mg/L = milligram per liter
mV = millivolt
N = nitrogen
NTU = Nephelometric Turbidity Unit
pCi/L = picocurie per liter
UJ = estimated detection limit
uS/cm = microsiemen per centimeter