

EXHIBIT / FOOT NOTE

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5.3.4 Meteoric Mobility Water Procedure Testing

A sub-set of the tailings samples were also submitted for MWMP testing to identify the presence of leachable metals and readily soluble salts stored within the tailings material, as well as to provide an indication of their availability for dissolution and mobility. MWMP leachate chemistry compared with NDEP Profile I and Profile III reference values is presented in Table 5-26.

The MWMP results for the clay tailings indicate there is a potential to leach aluminum, antimony, arsenic, beryllium, cadmium, chromium, copper, fluoride, iron, lead, magnesium, manganese, mercury, sulfate, thallium, TDS and zinc at concentrations above NDEP Profile I and/or Profile III reference values under low pH conditions. The low MWMP pH for the clay tailings is consistent with the paste pH and NAG pH results. These results can be attributed to the presence of residual sulfuric acid from the leaching process that is flushed from the material during the MWMP.

The MWMP leachate for the neutralization solids is circum-neutral to alkaline and constituent concentrations are lower in comparison to the clay tailings. Under these conditions, aluminum, antimony, arsenic, fluoride, magnesium, manganese, sulfate thallium and TDS are leached at concentrations above NDEP Profile I reference values. For the sulfate salts, pH values are circum-neutral and fluoride, lead, magnesium, manganese, sulfate, thallium and TDS are above NDEP Profile I reference values.

MWMP leachate from one of the clay tailings, neutralization solids and sulfate salt samples were submitted for Profile I-R analysis that includes analysis of uranium, gross alpha, radium 226/radium 228 and thorium. Preliminary results are summarized in Table 5-27. and indicate that uranium, gross alpha and radium 226/radium 228 are leached from clay tailings samples at concentrations above the NDEP Profile I-R reference values. For the neutralization solids and sulfate salts, these radionuclides are present but are below the Profile I reference values.

Table 5-26: MWMP Results for Tailings Samples

Parameter	Units	NDEP Profile I Reference Value	NDEP Profile III Reference Value	Clay tailings	Clay tailings	Clay tailings	Neutralization solids	Neutralization solids	Sulfate Salts
				4-LFILTCAKE-E05B-314	49-LFILTCAKE-E13B-317	49-LFILTCAKE-E13B-321	4-NFILTCAKE-E09B-308	49-NFILTCAKE-E21B-339	4-NEUTSALTS-E24B-416
Alkalinity, CaCO3	mg/L	--	--	<10	<10	<10	41.1	<10	12.4
Aluminum	mg/L	0.2	4.47	1050	1690	5130	<1	10	<10
Antimony	mg/L	0.006	0.29	0.41	0.49	0.45	0.014	<0.02	<0.08
Arsenic	mg/L	0.010	0.20	16.8	25.7	31	0.011	<0.01	<0.04
Barium	mg/L	2.0	23.1	0.5	0.6	<1	0.2	<0.4	<1
Beryllium	mg/L	0.004	2.83	0.667	0.927	1.34	<0.002	0.042	<0.02
Bismuth	mg/L	--	--	2	<4	<8	<0.8	<2	<8
Boron	mg/L	--	5.0	29	35	87	19.5	109	69
Cadmium	mg/L	0.005	0.05	0.179	0.22	0.376	0.001	0.011	<0.01
Calcium	mg/L	--	--	489	521	620	462	521	140
Chloride	mg/L	400	--	<10	<30	<50	6.9	<50	<50
Chromium	mg/L	0.1	1.0	1.6	1.8	<2	<0.2	<0.5	<2
Cobalt	mg/L	--	--	<0.5	<1	<2	<0.2	<0.5	<2
Copper	mg/L	1.0	0.5	2.1	2.2	<2	<0.2	<0.5	<2
Fluoride	mg/L	4.0	2.0	2000	2000	56000	178	110	480
Iron	mg/L	0.6	--	2350	2750	3370	<0.6	<2	<6
Lead	mg/L	0.015	0.10	0.147	0.3	0.36	0.002	0.013	0.05
Lithium	mg/L	--	40.3	412	499	1120	336	1480	4030
Magnesium	mg/L	150	--	6640	7920	10300	4290	13600	62600
Manganese	mg/L	0.10	377	59.7	64	89	10	81.9	212
Mercury	mg/L	0.002	0.010	0.045	0.065	0.018	0.0004	0.0003	0.0008
Molybdenum	mg/L	--	0.60	2	3	10	0.5	<1	<4
Nickel	mg/L	--	171	0.4	1	3	<0.2	<0.4	<2
Nitrate/ Nitrite as N	mg/L	10	100	<0.06	0.07	0.08	0.15	0.09	0.23
pH, stu	s.u.	6.5-8.5	6.5-8.5	1.6	1.1	0.8	7.4	5.8	5.9
Phosphorus	mg/L	--	--	29	20	20	<2	<5	<20
Potassium	mg/L	--	--	2940	4370	10200	3340	6490	18000
Scandium	mg/L	--	--	<5	<10	<20	<2	<5	<20
Selenium	mg/L	0.05	0.05	0.014	0.02	0.01	0.003	<0.005	<0.02
Silver	mg/L	0.1	--	<0.5	<0.5	<2	<0.2	<0.5	<2
Sodium	mg/L	--	2000	180	660	2380	54	270	230
Strontium	mg/L	--	1127	2.4	2.2	5	0.4	2.2	<2
Sulfate	mg/L	500	--	49400	68900	103000	26200	76700	255000
Thallium	mg/L	0.002	0.032	0.171	0.21	0.28	0.056	0.185	0.7
Tin	mg/L	--	29.2	<2	<4	<8	<0.8	<2	<8
Titanium	mg/L	--	--	85.7	117	298	<0.1	<0.3	<1
TDS	mg/L	1000	7000	74700	96200	137000	37400	95200	378000
Uranium	mg/L	--	6.995	0.724	0.67	0.37	0.003	<0.005	<0.02
Vanadium	mg/L	--	0.1	7.2	8.6	19	<0.1	<0.3	<1
Zinc	mg/L	5.0	25.0	8.3	10	16	<0.2	1.4	<2

	Denotes concentration is greater than NDEP Profile I reference value
	Denotes concentration is greater than NDEP Profile III reference value
	Denotes concentration is greater than NDEP Profile I and Profile III reference values

Table 5-27: Radiochemistry Results for the Tailings Samples

Parameter	Units	NDEP Profile I-R Reference Values	Clay tailings	Neutralization solids	Sulfate salts
			4-LFILTCAKE-E05B-314	4-NFILTCAKE-E09B-308	4-NEUTSALTS-E24B-416
Total Dissolved Solids	mg/L	1000	74700	37400	378000
Uranium	mg/L	0.03	0.724	0.003	<0.02
	ug/L	30	724	3	<20
Thorium	mg/L	--	0.39	<0.02	<0.2
	pCi/L	15	0.26	<0.01	<0.13
Gross Alpha Activity	pCi/L	15	670	-44	0.37
	Error (+/-)	--	340	58	12
	LLD	--	890	230	60
Radium 226 Activity	pCi/L	--	1.6	0.64	0.76
	Error (+/-)	--	0.35	0.3	0.25
	LLD	--	0.53	0.3	0.66
Radium 228 Activity	pCi/L	--	6.6	0.63	0.78
	Error (+/-)	--	0.79	0.67	1.4
	LLD	--	0.55	0.67	1.5
Radium 226/Radium 228	pCi/L	5	8.2	1.27	1.54

5.3.5 Humidity Cell Testing

In July 2019, one sample of clay tailings (HC-17) and one sample of neutralization solids (HC-16) were selected for kinetic testing. Data available to date includes the initial flush (week 0). A summary of the cells is provided in Table 5-28.

At week zero, the neutralization solids sample generated neutral leachate and the clay tailings sample generated acidic pH. These results are consistent with the paste pH, NAG pH and MWMP pH results described above. Monthly leachate data was not available for HC-16 or HC-17 at the time of writing.

Table 5-28: Summary of Kinetic Test Results for Tailings Samples

Cell	Sample ID	Material Type	Duration of Test (Weeks)	Prediction based on ABA	Prediction based on NAG	HCT pH (s.u.)	HCT Conditions
16	4-NFILTCAKE-E09B-308	Neutralization Solids	0	PAG	PAG	7.92	Neutral
17	4-LFILTCAKE-E05B-314	Clay Tailings	0	PAG	PAG	1.64	Acid

5.3.6 Mineralogy

Samples of post-leach HCT material will be submitted to a Nevada-approved laboratory for optical microscopy, XRD, and SEM analysis to confirm the mineralogy of the clay tailings and neutralization solids inferred from the static test results. Mineralogy results for the tailings samples will be provided in the Characterization Report update.