

TMI_195 HE(1) 02_Table_1 - Human Health COC Supplemental Screening									
Contaminant of Potential Concern (COPC)	Concentration (µg/g)				MOECC Table 2 Human Health Component Value (µg/g)				
	Waste Rock	Tailings	Baseline Soil	Maximum Concentration	S1	S2 <sup>a</sup>	S3 <sup>a</sup>	S-GW1	S/IA
Aluminum	38,665	5,000	18,552	38,665	NV	NV	NV	NV	NV
<b>Antimony</b>	-	<b>11</b>	-	<b>11</b>	<b>7.5</b>	63	63	<b>NV</b>	<b>NV</b>
<b>Arsenic</b>	<b>92.25</b>	<b>46</b>	<b>2.9</b>	<b>92.25</b>	<b>0.95</b>	<b>1.3</b>	<b>47</b>	NV	NV
Cadmium	22.60	5.3	1.4	22.60	0.69	7.9	7.9	NV	NV
Chromium (total)	116.30	9.6	48	116.30	28,000	240,000	240,000	NV	NV
<b>Cobalt</b>	<b>338</b>	11	9.9	<b>338</b>	<b>22</b>	<b>250</b>	2,500	NV	NV
Copper	190.85	81	20	<b>191</b>	600	5,600	5,600	NV	NV
Iron	45,270	19,000	23,674	45,270	NV	NV	NV	NV	NV
<b>Lead*</b>	<b>2362.85</b>	<b>870</b>	8.1	<b>2,363</b>	<b>200</b> <b>(120)</b>	<b>1,000</b> <b>(120)</b>	<b>1,000</b> <b>(120)</b>	NV	NV
<b>Mercury</b>	0.62	0.62	0.11	0.62	9.8	67	670	550	<b>0.25</b>
Nickel	69.68	14	27	69.7	330	2200	510	NV	NV
<b>Zinc</b>	<b>9,414.9</b>	2,000	56	<b>9,415</b>	<b>5,600</b>	47,000	47,000	NV	NV
NOTES:									

COPC Contaminants of Potential Concern (COPC) selected based on exceedance of CCME or "OMOE" criteria as shown in Tables 1 and 2 of Appendix W. Note, "OMOE" is more correctly referred to as MOECC.

MOECC Table 2 Component Values Soil Components for Table 2- Full Depth, Potable Water Scenario, coarse textured soil and residential land use

a Soil Components for Table 2- Full Depth, Potable Water Scenario, coarse textured soil and commercial/industrial land use

NV No Value- insufficient toxicity and/or contaminant transport data to support pathway evaluation. Qualitative discussion only

- No value modelled

\* New lead components are in the process of derivation as a new interpretation of lead toxicity has been accepted by the scientific community suggested that lead now be interpreted as a non-threshold substance as per Wilson and Richardson 2016. In the interim 120 µg/g is suggested.

S1 Direct soil contact- dermal contact and incidental ingestion- Toddler

S2 Direct soil contact- dermal contact and incidental ingestion- Outdoor Worker

S3 Direct soil contact- dermal contact and incidental ingestion- Subsurface Worker

S-GW1 Soil migrating to groundwater used for drinking water (Resident)

S-IA Soil to Indoor Air via Soil Vapour Pathway (Resident)

**BOLD**

Exceeds Human Health Component, Risk Management Measures or Quantitative Assessment suggested