

2020 NOVEMBER 04

4502-CNNO-20-0018-L
SM-2020-062

Table 1 - Toxicity Results (2020 July to September)

| WNSL-W1-2311.02/2021 Appendix B.1 Phase 1 Release Limits for Liquid Effluent | | Monthly Results from Sample Analysis | | |
|---|--------------------------|--------------------------------------|-------------|----------------|
| Parameter | Monthly Average Limits | 2020 July | 2020 August | 2020 September |
| Toxicity Testing | Effluent cannot be toxic | PASS | PASS | PASS |

Table 2 - Effluent Results (2020 July to September)

| Parameter | Units | Action Levels | Release Limit (monthly mean) | Release Limit (weekly composite) | Maximum Weekly Results | | | Monthly Average | | |
|----------------------------|-------|---------------|------------------------------|----------------------------------|------------------------|---------------------|-----------|-----------------|---------------------|-----------|
| | | | | | July | August ¹ | September | July | August ¹ | September |
| Radium-226 | Bq/L | 0.05 | 0.37 | 0.74 | 0.006 | <0.005 | 0.01 | <0.006 | <0.005 | <0.008 |
| Total Arsenic (As) | µg/L | 50 | 100 | 200 | 11.4 | 13.4 | 15.6 | 6.57 | 13.4 | 9.33 |
| Total Cadmium (Cd) | µg/L | 1 | 1 | 2 | <0.003 | <0.003 | 0.006 | <0.003 | <0.003 | <0.004 |
| Total Cobalt (Co) | µg/L | 5 | 5 | 10 | 0.201 | 1.01 | 0.922 | 0.12 | 1.01 | 0.52 |
| Total Copper (Cu) | µg/L | 5 | 5 | 10 | 0.2 | 0.4 | 0.3 | <0.2 | 0.4 | 0.25 |
| Total Molybdenum (Mo) | µg/L | 50 | - | - | 0.75 | 3.29 | 4.04 | 0.54 | 3.29 | 2.00 |
| Total Phosphorus (P) | mg/L | 0.35 | 0.35 | 0.7 | 0.003 | 0.015 | 0.003 | <0.003 | 0.015 | <0.003 |
| Total Selenium (Se) | µg/L | 20 | 30 | 60 | <0.04 | 0.04 | 0.06 | <0.04 | 0.04 | <0.045 |
| Total Thallium (Tl) | µg/L | 0.5 | 8 | 16 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Total Uranium (U) | µg/L | 100 | fv100 | 200 | 0.932 | 7.54 | 7.72 | 0.65 | 7.54 | 3.94 |
| Total Vanadium (V) | µg/L | 5 | 40 | 80 | 0.07 | 0.40 | 0.43 | 0.04 | 0.40 | 0.26 |
| Total Ammonia-N | mg/L | 5.75 | 5.75 | 11.5 | 0.07 | 0.26 | 0.28 | <0.05 | 0.26 | 0.20 |
| Nitrite (NO ₂) | mg/L | 1.5 | 1.5 | 3 | <0.03 | <0.03 | 0.27 | <0.03 | <0.03 | 0.16 |
| Nitrate (NO ₃) | mg/L | 75 | 75 | 150 | <0.06 | <0.06 | 0.08 | <0.06 | <0.06 | <0.065 |
| pH | pH | 6.5-8.5 | 6-9.5 | <6 or >9.5 | 7.68 | 7.54 | 7.81 | 7.37 | 7.54 | 7.69 |
| Total Suspended Solids | mg/L | 15 | 15 | 30 | <1 | <1 | 2 | <1 | <1 | <1.25 |

Notes: "<" denotes results were below minimum detection limit

¹ 2020 August results reflect one (1) sample for one (1) week effluent discharge. Effluent was discharged to Lake Ontario over a one (1) week period vs. (1) month period due to Equalization Pond cleanout operations.