

2022 November 02

Table 1 – Toxicity Results (2022 July to September)

WNSL-W1-2310.02/2022 Phase 1 Release Limits for Liquid Effluent		Monthly Results from Sample Analysis		
Parameter	Monthly Average Limits	July	August	September
Toxicity Testing	Effluent cannot be toxic	PASS*	PASS	PASS

* One partial toxicity failure event was reported to the Canadian Nuclear Safety Commission for toxicity of *daphnia magna* on 2022 July 12. Upon further investigation, CNL concluded that the result was anomalous and was due to error of the external laboratory analysing the sample. A follow-up sample submitted on 2022 July 19, and all other results for the quarter were non-toxic.

Table 2 – Effluent Results (2022 July to September)

Parameter	Units	Action Levels	Release Limit (monthly mean)	Release Limit (weekly composite)	Maximum Weekly Results			Monthly Average		
					July	August	September	July	August	September
Radium-226	Bq/L	0.05	0.37	0.74	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Aluminum	µg/L	100	110	220	2.0	<5.0	<1.6	2.0	<2.4	<1.3
Total Arsenic	µg/L	41	150	300	10.7	21.1	1.1	10.1	10.6	0.9
Total Copper	µg/L	5	15	30	<0.3	4.1	1.2	<0.3	1.2	0.7
Total Lead	µg/L	5	23	46	0.16	0.33	0.10	0.15	0.18	0.10
Total Uranium	µg/L	100	150	300	1.78	1.31	0.36	1.37	0.84	0.35
Total Zinc	µg/L	15	210	420	<1.0	<9.0	<3.9	<1.0	<2.6	<2.9
pH	--	6.5 to	6.0 – 9.0	6.0 – 9.0	7.40	7.64	7.47	7.35	7.55	7.32
Total Suspended Solids	mg/L	7.5	15	30	1	2	<1	1	2	<1

Denotes: "<" denotes some or all results were below minimum detection limit