

2024 April 23

Table 1 – Effluent Results (2024 January to March)

Parameter	Units	Action Level (Weekly Concentration Composite Sample)	Release Limit (Weekly Mean Concentration Composite Sample)	Release Limit (Monthly Mean Concentration Composite Sample)	Maximum Weekly Concentration Composite Sample			Monthly Mean Concentration Composite Sample		
					January	February	March	January	February	March
Acute Toxicity	-	-	-	Cannot be toxic	-	-	-	PASS	PASS	PASS
Radium-226 (Ra)	Bq/L	0.05	0.74	0.37	0.007	0.007	0.007	<0.005	<0.006	<0.006
Total Arsenic (As)	µg/L	50	200	100	5.8	4.3	1.8	4.6	2.8	1.6
Total Cadmium (Cd)	µg/L	0.5	2	1	0.003	0.217	0.003	<0.003	<0.057	<0.003
Total Cobalt (Co)	µg/L	5	10	5	0.04	0.27	0.02	<0.03	<0.11	0.02
Total Copper (Cu)	µg/L	5	10	5	2.00	0.27	0.20	<0.88	<0.22	<0.20
Total Molybdenum (Mo)	µg/L	39	-	-	0.87	0.6	0.7	0.49	<0.5	<0.53
Total Phosphorus (P)	mg/L	0.2	0.7	0.35	0.02	0.02	0.01	0.02	0.01	<0.005
Total Selenium (Se)	µg/L	0.5	60	30	0.04	0.04	0.04	<0.04	<0.04	<0.04
Total Thallium (Tl)	µg/L	0.05	16	8	0.005	0.005	0.005	<0.005	<0.005	<0.005
Total Uranium (U)	µg/L	50	200	100	3.5	2.6	1.7	2.6	1.7	1.2
Total Vanadium (V)	µg/L	5	80	40	0.07	0.05	0.05	0.05	0.04	0.03
Total Ammonia-N (NH ₃)	mg/L	4.9	11.5	5.75	0.09	0.06	0.04	<0.06	0.05	<0.04
Nitrite (NO ₂)	mg/L	1.5	3	1.5	0.03	0.03	0.03	<0.03	<0.03	<0.03
Nitrate (NO ₃)	mg/L	32	150	75	0.06	0.06	0.06	<0.05	<0.06	<0.06
pH	-	6.5 - 8.5	<6 or >9.5	6 - 9.5	7.65	7.62	7.61	7.45	7.57	7.51
Total Suspended Solids	mg/L	7.5	30	15	1.0	1.0	1.0	<1.0	<1.0	<1.0

Notes:

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

Action levels and release limits for liquid effluent are defined in:

- CNL, *Port Granby Project Environmental and Biophysical Monitoring Plan, 4502-509247-PLA-001, Revision 2, 2022 September 30.*
- Letter, R. Buhr (CNSC) to S. Morris (CNL), *CNL-PHAI WMP - CNSC Staff's Review of CNL's Proposed Revised Liquid Effluent Action Levels for the Port Granby and Port Hope Waste Water Treatment Plants, 4500-NOCN-23-0014-L, 2023 August 29.*