



2023 May 23

**Table 1 – Effluent Results (2023 January to March)**

Parameter	Units	Action Level (Weekly Concentration Composite Sample)	Release Limit (Weekly 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	0.005	0.005	0.005	0.005	0.005	0.005
Total Arsenic (As)	µg/L	41	300	150	0.5	1.6	2.8	0.4	1.0	1.4
Total Aluminum (Al)	µg/L	100	220	110	1	1	1	1	1	1
Total Copper (Cu)	µg/L	5	30	15	1.7	1.0	1.2	0.6	0.7	0.7
Total Lead (Pb)	µg/L	5	46	23	0.19	0.92	1.20	0.14	0.66	0.38
Total Uranium (U)	µg/L	100	300	150	0.43	1.81	2.86	0.32	1.30	1.14
Total Zinc (Zn)	µg/L	15	420	210	5	2.16	2	1.80	1.29	1.75
Total Cobalt (Co)	µg/L	52	210	105	0.34	2.13	4.42	0.22	1.41	1.49
Total Cadmium (Cd)	µg/L	0.14	0.34	0.17	0.058	0.008	0.043	0.015	0.005	0.025
Total Vanadium (V)	µg/L	2.2	8.8	4.4	0.03	0.04	0.06	0.02	0.03	0.04
Total Phosphorus (P)	mg/L	0.25	1	0.5	0.022	0.009	0.009	0.011	0.006	0.007
pH	--	6.5 to 8.5	6.0 – 9.0	6.0 – 9.0	8.34	7.52	7.36	7.60	7.48	7.14
Total Suspended Solids	mg/L	7.5	30	15	1	1	1	1	1	1

**Notes:**

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

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

- CNL, *Port Hope Project Environmental and Biophysical Monitoring Plan, 4501-509247-PLA-001*, Revision 4, 2018 October 24.
- CNSC, *Record of Decision In the Matter Of Canadian Nuclear Laboratories Ltd. Application to Renew the Waste Nuclear Substance Licence for the Port Hope Project as a Single Licence for the Port Hope Area Initiative*, DEC 22-H13, 2023 April 20.
- Letter, R. Buhr (CNSC) to S. Morris (CNL), *CNSC Staff’s Review of CNL’s Assessment of Action Levels and Release Limits for the Port Hope Waste Water Treatment Plant*, 4501-NOCN-23-0020-L, 2023 May 19.