



2016 October 19

Mr. John Thelen, Senior Project Officer
Nuclear Processing Facilities Division (NPPFD)
Directorate of Nuclear Cycle and Facilities Regulation (DNCFR)
Canadian Nuclear Safety Commission
280 Slater Street
P.O. Box 1046, Station B
Ottawa, ON K1P 5S9

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SF-2016-054

Dear Mr. Thelen:

**PORT GRANBY WASTE MANAGEMENT FACILITY QUARTERLY EFFLUENT MONITORING PROGRAM
(2016 JULY TO SEPTEMBER)**

The purpose of this letter is to submit to CNSC staff the 2016 third quarter results of the Canadian Nuclear Laboratories (CNL) effluent monitoring program at the Port Granby Waste Management Facility (PGWMF), in accordance with the requirements of the Waste Nuclear Substance Licence WNSL-W1-2311.01/2021 [1].

Discharge Flow Characteristics:

Table 1 provides the parameters and limits for specified substances listed in Appendix B, Article 2 of the licence [1] and the measured results of samples drawn from the effluent discharge flow for the period 2016 July to 2016 September. All results are within the acceptable limits.

The Port Granby Waste Water Treatment Plant (PGWWTP) was not operated during the month of July, and had limited operation in the month of August. This was due to low water volumes as a result of the dry summer.

Canadian Nuclear Laboratories

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Table 1– 2016 July to September Effluent and Toxicity Results

WNSL-W1-2311.01/2021 Appendix B.1 Phase 1 Release Limits for Liquid Effluent		Monthly Mean Concentration Results from Sample Analysis		
Parameter	Maximum Monthly Mean Concentration	2016 July ¹	2016 August ²	2016 September ⁴
Radium-226 (Becquerels per litre)	0.37	NA	<0.005	<0.005
pH	Between 6.0 and 9.0	NA	8.58	7.91
Toxicity Testing ³	Effluent cannot be toxic	NA	PASS	PASS

1 – PGWWTP not operated during the month of July due to low water levels as a result of the dry summer.

2 – Radium-226 and pH results based on analyses of one sample

3 – Toxicity testing results based on one sample

4 – Radium-226 and pH results based on analyses of three samples

If you have any questions or concerns, please feel free to contact me at 905-885-8830 ext. 41160.

Regards,

Sandra Faught, Manager, Programs & Compliance
Port Hope Area Initiative Management Office

SF/BS/RB:la

References:

[1] *Waste Nuclear Substance Licence Port Granby Long-Term Low-Level Radioactive Waste Management Project*: WNSL-W1-2311.01/2021. E-doc 4541235/4490416, 2014 October 22.

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