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Department of Community and Government Services Nunalingni Kavamatkunnilu Pivikhaqautikkut Ministère des Services Communautaires et gouvernementaux

August 21, 2017

Karen Kharatvan Manager of Licensing Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

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Sub: Renewal Water Licence # 3BM-PAN1417 of the Municipality of Pangnirtung: Responses to the questions.

Dear Karen,

I am writing in response to the letter dated August 4, 2017 by Richard Dwyer, Licence Administrator of NWB.

Please see our responses to the questions raised by INAC dated July 28, 2017, ECCC dated July 19, 2017 and DFO dated July 21, 2017 on the Water Licence #3BM-PAN 1417 renewal application. The following documents are attached:

- 1. Response in green to INAC's letter dated July 28,2017
- 2. Response in green to ECCC's letter dated July 19,2017
- 3. Response in green to DFO's letter dated July 21,2017
- 4. The Revised O&M Manual, August 2017 for Solid Waste Management
- 5. Drainage Plan for the Waste Facilities: WWTP, Land fill and Metal dump sites
- 6. Plan and Cross section of the Landfill site
- 7. Plan and Cross section of the metal dump site
- 8. Plan and cross section of the Water supply facilities
- 9. Flow path of the Wastewater effluent from the WWTP to the Sea.
- 10. Revised Spill Contingency Plan
- 11. Revised Bypass Contingency Plan
- 12. Wastewater test results: Caduceon lab testing results from 2015 to 2017-Excel sheet
- 13. Leachate test results from Caduceon Lab from 2012 to 2017- Excel sheet
- 14. Final Report on Nunavut Wide Hydrology study
- 15. Latest Zonal Plan for the Hamlet of Pangnirtung
- 16. Weekly Log Sheet: Shown the method of recording water extraction volume in 3rd row

The Hamlet has started rehabilitating the drainage network of the waste facilities and is expected to be completed by October 2017.

The O&M manual for the wastes management will be further updated once segregation is completed to submit to NWB along with the Hamlet's 2018 Annual Report.



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The Fish wastes management varies depending on the availability of the International market.

The O&M manual of the water supply facilities will be updated with WTP, Water Reservoir and Water extraction process from Duval River. This document will be available by December 2017 and submitted to NWB along with Hamlet's 2017 Annual Report.

I would also like to confirm that the Hamlet is using a diesel pump with the capacity of 31.67L/s to extract water from the Duval River to fill the storage Reservoir during the summer season. This pumping rate represents less than 10% of the mean flow of the River and has very minimum impact on the river flow. Therefore this operation is considered safe.

The Water Licence is requested to be renewed until 2027 (10 years) with the water extraction Permit volume of 120,000 m<sup>3</sup> annually.

Please keep me in the loop for the entire approval process. Please contact me if you have any concerns or questions on this file.

Bhabesh Roy, M.A.Sc., P.Eng.

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