

ANNUAL REPORT

YEAR BEING REPORTED: 2009

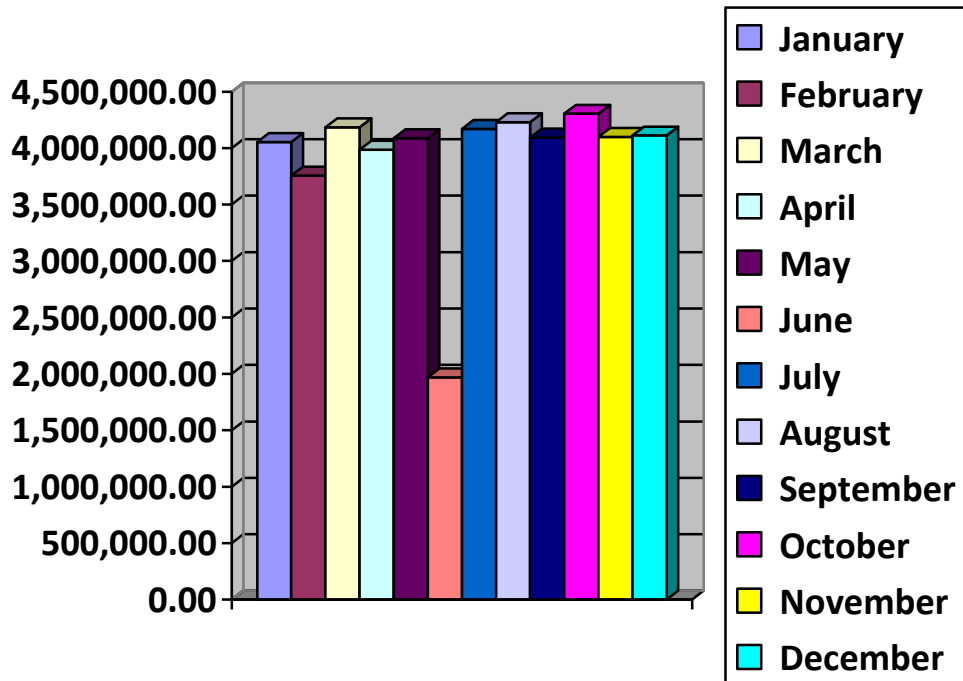
The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence **3BM-KUG0914** issued to **Kugluktuk**.

- i) - iii) tabular summaries of all data generated under the “Monitoring Program”; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our Fluid Manager Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (Litres)	Quantity of Sewage Waste Discharged
January	4,054,123.70	Same
February	3,756,893.70	Same
March	4,184,477.00	Same
April	3,985,652.80	Same
May	4,087,859.10	Same
June	1,969,660.80	Same
July	4,170,010.70	Same
August	4,229,423.95	Same
September	4,093,549.50	Same
October	4,304,605.90	Same
November	4,098,559.90	Same
December	4,112,186.50	Same
ANNUAL TOTAL	47,047,003.55	Same

ANNUAL REPORT



Water intake and distribution 2009 (January – December)

X-axis: Month of the year

Y-axis: Quantity of monthly water intake (histogram)

ANNUAL REPORT

- iv. **a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;**
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Water Supply:

- ✓ Design completed for new IPH and intake system scope including twin intake line, new intake screen and supply line to treatment plant. A T-connection vault included for switching water intake from the old PH and another T-connection to divert water to holding pond for the time of high turbidity occurrence.
- ✓ A study plan for new water treatment plant integration to the current plant.

Sewage Lagoon:

- ✓ The new lagoon construction substantially completed Oct 16, 2008 and the Licensee has been using the new lagoon since Nov 12, 2008. Some outstanding and deficiency works continued this year which includes ladders to lagoon, signage, repair of fence and potholes on berm.
- ✓ Water and sludge-soil sampling from old lagoon, as part of decommissioning.

Waste Disposal Facility:

- ✓ Repaired fence bracings and gate to waste site and housed hazardous waste from regular type inside confined cell.

- v. **a list of unauthorized discharges and summary of follow-up action taken;**
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- ✓ No unauthorized water intake or sewage discharge from the new lagoon except the seasonal runoff from old lagoon which continued the decommissioning activities.

- vi. **a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;**
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- ✓ Abandonment and Restoration (A&R) work for existing sewage facility continued and expecting completion in year one or two depending on sampling results and development of remediation process.

- vii. **a summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;**
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Request from INAC inspector to confirm and monitoring berm temperature:

- ✓ The Licensee is monitoring the temperature (freezing temperature) on berm foundation by taking readings from thermistors installed at locations on lagoon

ANNUAL REPORT

berm, downloading them into PC/computer for record purposes. No issue on temperature rising at the foundation level.

viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

- ✓ No specific request but a management plan of solid waste site including signs, containment, securement and reduction of volume by using isolated cells and plan for shipping out by specific contractors.

ix.

updates or revisions to the approved Operation and Maintenance Plans

- ✓ The O&M manual 2007 remains active for sewage and solid waste management.
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ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

- ✓ Amendment Water Licence 3BM-KUG0914 received with issuance date May 14, 2009 and expiry April 30, 2014 for the use of water and disposal of sewage and solid waste.
Board has updated also the preliminary reports for water intakes relocation option, Intake Design, Treatment Process, Storage and Truck fill system. A detail report and design-drawing will be updated before the new system construction starts.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:
