



MUNICIPAL PUBLIC WORKS department

ACTIVITY REPORT NOVEMBER 2021 TO FEBRUARY 2022

The primary mandate of the Municipal Public Works Department is to assist the communities to secure the infrastructure and equipment necessary for their development and to assume all related responsibilities. All of the Department's activities performed in this respect are in close co-operation with the northern villages, whose participation is essential to the success of these activities. As well, the Department provides technical assistance and delivers training to municipal staff to help them increase their level of knowledge in fields that are relevant to municipal activities and to make the northern villages more autonomous. The department is also responsible for the maintenance of all KRG infrastructure.

PROGRAMS

1. TECHNICAL ASSISTANCE PROGRAM (SIVUNIRMUT)

- Drinkable Water

- Day-to-day assistance was given by phone to operators (troubleshooting, repairs, adjustments of systems, purchase of parts, follow-up on samplings/tests, etc.);

Bacteriological Analysis – Colilert Sampling Results:

	2017 50 weeks	2018 50 weeks	2019 50 weeks	2020 50 weeks	2021 50 weeks
Kangiqualujuaq	100%	90%	93%	94%	96%
Kuujuaq	92%	92%	93%	100%	96%
Tasiujaq	72%	62%	69%	88%	82%
Aupaluk	90%	96%	71%	66%	82%
Kangirsuk	90%	96%	95%	100%	86%
Quaqtaq	96%	90%	62%	78%	68%
Kangirsujuaq	96%	98%	100%	98%	94%
Salluit	93%	90%	95%	90%	88%
Ivujivik	60%	60%	71%	80%	68%
Akulivik	78%	84%	62%	82%	52%
Puvirnituaq	86%	82%	93%	90%	82%
Inukjuak	76%	58%	71%	92%	84%
Umiujaq	96%	94%	93%	94%	76%
Kuujuaapik	94%	96%	100%	92%	98%
Average Nunavik	87%	85%	84%	89%	82%

- **Comments:**

- Sampling results:
 - Currently at **82%**, regional objective is 85%: **Major and immediate improvements are required to** improve testing performances regionally;
 - 4 of 14 operators at 90% and above (Kangiqsualujjuaq, Kuujjuaq, Kangirsujuaq, and Kuujjuaraapik)
 - 2 of 14 operators between 85% and 90%, (Kangirsuk and Salluit)
 - 8 of the 14 operators between 50% and 85% (Tasiujaq, Aupaluk, Quaқтаq, Ivujivik, Akulivik, Puvirnituaq, Inukjuak and Umiujaq)
- Physical and chemical testing of raw water and treated water:
 - For the second sampling campaign, samples were received from 5 of 14 communities. They include: Kangiqsuallujjuaq, Kuujjuaq, Kangirsuk, Salluit and Kuujjuaraapik. The remaining villages mostly experienced logistical problems with unpredictable weather conditions causing samples to expire before arriving to the lab.

This test is important since it tracks any potential changes to the source water (lakes and rivers) and confirms if the existing treatment process continues to produce safe drinking water;

- Interventions made in collaboration with operators and communities regarding issues with the water infrastructure;
 - **Kangirsujuaq:** (supply line frozen)
 - Working with the NV to reestablish flow in supply line to distribution plant;
 - External electricians were mobilized to repair the heat trace system;
 - High turnover of operators has made it a challenge for proper operation, maintenance and training;
 - **Salluit:** (frozen intake line at source)
 - Freeze protection for the new raw water pump was installed, additional repairs to the heat trace system to be done in the summer;
 - Glycol recirculation pumps for the treatment plant are required for purchase by the NV;
 - **Ivujivik:** (new supply line)
 - On-going work to define scope of works in preparation for a call for tenders for a new supply line that includes heat and power;
 - Water from lake continues to be pumped into truck and chlorine added directly which requires a continuous notice to boil advisory until new supply line is completed;
 - **Inukjuak:** (Raw water supply line frozen)
 - Received notice (Jan. 23) from NV that flow was lost in supply line;
 - Lack of heat at pumping station was the likely cause;
 - Urgent resource and material plans engaged the following week in effort to reestablish heat and flow;
 - Hydro-Quebec and Air Inuit provided much welcomed support;
 - Directly connecting at pumping station, trucks were filled with raw water and received chlorine before delivery of services to the village;
 - Rigorous and continuous operation performed with dedicated NV staff in maintaining heat to each manhole access points despite extreme winter conditions;
 - Flow was reestablished February 20 to the water distribution plant;

- **Rolling Stock – vehicles and heavy equipment**
- 4 NVs visited by mechanic-instructor (Kangirsuk, Ivujivik, Akulivik, Puvirnituk), assisting on repairs and follow-up of preventative maintenance;

**2. ISURRUUTIIT PROGRAM 4 (2016-2022)
(Ministère des Affaires Municipales et de l’Habitation– MAMH)**

Component 1 – Infrastructure

1.1 Drinking Water – Water Plants

- General:
 - Water plant infrastructure and heating system audit reports under review and to be evaluated for IP-5 considerations;
- Kuujuaq: (New)
 - Closure of project in final stages;
- Aupaluk: (Infrastructure needs)
 - Proposal for additional reservoir from consultant under review;
 - Direct connection for raw water to treatment plant ready for use this winter;

1.2 Waste Water Systems

- Salluit:
 - Emergency electrical repairs to the lagoon facilities done by external electricians sent from Kuujuaq;
 - Quote for discharge valve submitted to the NV and subsequently ordered, replacement to be planned after delivery;
 - Further electrical repairs to be done after valve replacement;

1.3 Solid Waste Sites

- Kuujuaaraapik:
 - Existing sites:
 - Preparation of site closure and remediation plan – on-going;
 - New landfill site Project:
 - Preparation of construction documents for retrofitting work on main road (5km road) initiated;
- Inukjuak:
 - Design review of new landfill and preparation of site closure and remediation plan of existing site on-going, construction to start with IP5;
- All NVs
 - Data collection underway to gather available information on existing and past landfill sites to prepare for site audits in IP-5.

1.4 Roads

- Kangirsuk: (access to new dump site)
 - Permits and authorizations have been received;
 - Work being planned for 2022 with new design as per ministry regulations;
- Salluit: (access to new cemetery site)
 - Access road work to continue, confirmation of final layout of cemetery to be determined;

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Kangiqsualujuaq and Inukjuak: (new construction)
 - Both buildings are completed and in use;
 - Design issues to be corrected in Kangiqsualujuaq;

- Puvirnituk: (new construction)
 - Work continuing and planned for completion summer 2022;
- Kangirsuk (Arena demolition and new construction)
 - Construction work on-going and to be completed July 2022;

Component 3 – Rolling Stock – vehicles and heavy equipment

- (7) Water trucks: Kangiqsualujuaq, Kuujuaq (2), Kangirsuk, Salluit, Ivujivik, Puvirnituk to be delivered on first ship;
 - (4) Sewage trucks: Kuujuaq, Quaqaq, Ivujivik, Puvirnituk to be delivered on first ship;
 - (3) Garbage trucks: Aupaluk, Ivujivik, Umiujaq to be delivered on the last ship;
 - (3) Gravel dump trucks: Kuujuaq, Aupaluk, Puvirnituk to be delivered on the first ship;
 - (4) Loaders: Kangiqsualujuaq, Kangirsuk, Quaqaq, Puvirnituk to be delivered on the first ship;
- 3. PAVING PROGRAM (Ministere Transport du Quebec)**
- Preliminary discussions to be confirmed with MTQ;
- 4. PIVALLIUTIIT 3 and 4 (Secrétariat aux affaires autochtones, aboriginal affairs, SAA)**
- Ivujivik: Community Center (renovation)
 - Work delayed to correct deficiencies to close project, dates to be confirmed;
 - Kuujuaaraapik: St-Edmunds Church (reconstruction)
 - After inspections, existing structure determined not to be safe, nor salvageable;
 - A call for tender is being prepared by consultant;
- 5. FUEL EXCISE TAX PROGRAM (TECQ) PROGRAM - 4**
- Akulivik Municipal Garage: (heating system renovation)
 - Heating system installed and operational;
 - Additional works to secure envelope (garage doors) of building to continue;
- 6. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS**
- Police stations (NPS) – (new construction): Puvirnituk and Inukjuak
 - Discussions with provincial and federal partners required after prices received by bidders were over budget;
 - Project scope modifications being reviewed with consultants;
 - Firehalls (Civil Security)
 - Kangirsujuaq, Puvirnituk, Inukjuak: (renovations)
 - Prices received from bidders substantially higher, requiring internal discussions in order to proceed;
 - Nunavik Parks Infrastructures (Renewable Resources Department)
 - Kangirsujuaq: Pingualuit Interpretation Center (renovation)
 - Renovation work planned for summer 2022;
 - Childcare centers:
 - Salluit: Tasiursivik (renovation)
 - Deficiencies work to be finished end of February;
 - Minor outdoor work to be completed during summer construction season;
 - Kuujuaq: Tumiapiit (mold remediation)
 - Staff to continue changing air filters regularly until renovation completed;
 - Consultants to prepare plans & specifications for reconstruction of technical crawl space;

- Tasiujaq: Qulliapik (renovation)
 - Report completed after site visit, center is generally in good condition;
 - Final scope of work to be defined with consultant;
- Puvirnitug: Sarliataurvik: (renovation)
 - Initial visit and report is completed;
 - Plumbing systems are the main issues with center;
 - Defined scope of work to be confirmed;
- Aupaluk: Sukliateet (mechanical room renovation)
 - heating system upgrade to be coordinated with childcare center;
 - All plumbing lines damaged due to freezing;
 - Clean up and repair work by KRG maintenance technician and local worker focused in crawl space of center;
- Puvirnitug: Family House (NV renovation project)
 - Project was completed before holidays;
- Puvirnitug: Community center (NV renovation project)
 - Project was completed before the holidays;
 - All plumbing frozen due to lack of fuel over holidays;

7. KRG BUILDING MAINTENANCE

- Daily maintenance:
 - Work to address staff housing and infrastructure issues on-going;
- KRG Infrastructure work in the region:
 - Works on-going;
 - Courthouse and two (2) apartment buildings (heating systems renovation)
 - Plans and specifications to be prepared by consultant in order to launch a call for tender in March;
- Kuujjuaq: Head office (improvements and upgrades)
 - High estimates presented by consultant require further discussion internally for possible reduction to the scope of work;



MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

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Director

- Administration and management of the department

Administrative Technician

Assistant Director – Infrastructure division

- Administration and management of the Infrastructure division

Project Manager Infrastructures

- Building projects and civil works

Project Manager Civil Works and Infrastructure

- Wastewater systems & buildings

Project Manager Administration

- General management of accounting and administrative aspects of files & managing financial programs

Project Manager Roads

- Road/paving projects and Rolling Stock

Mechanics Instructors (Nunavik rotation)

Assistance/on-the-job training to municipal mechanics

Project Manager Water infrastructure

- Water Plant maintenance construction & renovation
- Drinking water quality follow-up

Water Plant Instructor / Team Leader

Water Plant Maintenance Instructors (Nunavik rotation)

Assistance and on-the-job training to municipal operators on operations

Project Manager Engineering

- Solid waste site projects (new and refit)

Project Manager Infrastructure

- Civil projects (roads, bridge, drainage, paving)

BUILDING MAINTENANCE DIVISION maintenance@krq.ca

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Vacant		Project Manager Mechanical/Construction <ul style="list-style-type: none">- Mechanical maintenance projects- New mechanical projects coordination
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Vacant		Coordinator-Nunavik technicians
Robert Ekomiak	rekomiak@krq.ca	Building Maintenance Technicians (Kuujuuaq) <ul style="list-style-type: none">- Maintenance of KRG buildings (police stations, airport terminal and garage, office building, staff housing) and Childcare centers- 2 vacant positions
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Rodney Vezina	rvezina@krq.ca	NV Building Maintenance Technicians (Nunavik rotation) <ul style="list-style-type: none">- Maintenance of KRG buildings (police stations, airport terminals and garages, office buildings, staff housing) and Childcare centers- Assistance/on-the-job training to municipal building technicians for NV recreational buildings (water plants, arenas, community centers, swimming pools), etc.
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