



MUNICIPAL PUBLIC WORKS department

ACTIVITY REPORT JUNE TO SEPTEMBER 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)

- Drinking 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:

	2018 50 weeks	2019 50 weeks	2020 50 weeks	2021 50 weeks	2022 32weeks
Kangiqualujuaq	90%	93%	94%	95%	88%
Kuujuaq	92%	93%	100%	98%	100%
Tasiujaq	62%	69%	88%	81%	94%
Aupaluk	96%	71%	66%	79%	94%
Kangirsuk	96%	95%	100%	84%	100%
Quaqtaq	90%	62%	78%	65%	97%
Kangiujuaq	98%	100%	98%	93%	94%
Salluit	90%	95%	90%	91%	81%
Ivujivik	60%	71%	80%	63%	100%
Akulivik	84%	62%	82%	49%	88%
Puvirnituk	82%	93%	90%	77%	72%
Inukjuak	58%	71%	92%	86%	78%
Umiujaq	94%	93%	94%	79%	88%
Kuujuarapik	96%	100%	92%	98%	100%
Average Nunavik	85%	84%	89%	81%	91%

- **Comments:**

- Sampling results:
 - Currently at 91%, the regional objective is 85%: While the average is slightly above target, there's room to improve testing performances regionally and in particular in the 3 villages that are below 85%;
 - 8 of 14 operators at 90% and above (Kuujuaq, Tasiujaq, Aupaluk, Kangirsuk, Quaqtac, Kangiqsujuaq, Ivujivik, and Kuujuarapik)
 - 3 of 14 operators between 85% and 90%, (Kangiqsualujuaq, Akulivik and Umiujaq)
 - 3 of the 14 operators between 50% and 85% (Salluit, Puvirnituc, and Inukjuak)
- Physical and chemical testing of raw water and treated water:
 - For the SECOND sampling campaign, samples were received from 8 of 14 communities. They include: Kangiqsualujuaq, Aupaluk, Quaqtac, Salluit, Akulivik, Inukjuak, Umiujaq and Kuujuarapik. 6 NVs have not sent the samples or have not provided us with the shipping details, including: Kuujuaq, Tasiujaq, Kangirsuk, Kangiqsujuaq, Ivujivik, and Puvirnituc.

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:
 - **Kangiqsualujuaq:**
 - Troubleshooting of the recirculation line. There are several end-of-life equipment that have been identified to the NV for purchasing.
 - **Kangirsuk:**
 - Troubleshooting of the raw water pipeline and its heat trace system, the raw water pumping station, and the chemical treatment system ongoing.
 - Satellite communication system purchased by MPW to install at the raw water pumping station to re-establish communication between the plant and the pumping station. Installation is being planned for late summer/early fall.
 - **Kangiqsujuaq:**
 - Pipeline was thawed and flow established in June.
 - A particular instrument to troubleshoot the heat trace cable has been ordered and delivered. External electricians to be mobilized to repair the heat trace system;
 - High turnover of operators has made it a challenge for proper operation, maintenance and training;
 - **Ivujivik:**
 - 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. Requests to the NV to mobilize a second water truck to fill the plant to be able to distribute treated water and have the fire fighting reserve remains an issue to be addressed.
 - **Akulivik:**
 - Sunken raw water pump retrieved and replaced.
 - **Puvirnituc:**
 - Assistance provided to the NV to source insulation repair materials for the damaged parts of the pipeline. Repairs to be done by the NV.

- Main PLC functioning recovered and the plant automation is restored.
- Parts delivered and installed for recommissioning of the last stream of UV disinfection system.
- **Inukjuak:**
 - Visited together with a contractor to investigate communication problems between the plant and the pumping station. Working with Tamaani to restore the communication over the internet instead of VHF.

All NVs except Kuujjuaq have been visited by KRG technicians at least once during this period.

Absenteeism among the treatment plant operators is becoming more and more common having a critical adverse effect on the health and safety of several communities. NVs are requested to play a more active role in the management of their infrastructure, particularly the drinking water infrastructure.

- **Wastewater:**
 - **Salluit:**
 - The replacement for the burst valve has been delivered;
 - Preparation of tools and accessories ongoing, replacement work tentatively planned for September 2022;
 - Further electrical repairs to be done after valve replacement;
- **Rolling Stock – vehicles and heavy equipment**
 - 3 NVs visited by mechanic-instructor (Akulivik, Salluit and Kangirsuk), assisting on repairs and follow-up of preventative maintenance;
 - MPW mechanic-instructor successfully completed the master mechanic “train the trainer” program at Komatsu dealership to be able to train NV mechanics with the new Komatsu loaders.

NVs are reminded to better communicate the status of their fleet for proper overhaul planning when required. With the ongoing disruptions of the supply chain and the impossibility of purchasing new service trucks, the responsibility of the municipalities in proper maintenance and management of the existing fleet is substantially more critical.

It is important to bear in mind that most overhauls cost above the thresholds required by the law to be procured through call for tenders thus it is imperative to allow for proper time and have detailed scope for such call for tenders.

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;
- Kuujjuaq: (New)
 - Closure of project in final stages;
- Aupaluk, Salluit and Akulivik: (Infrastructure needs)
 - Working with a consultant to start design for additional capacity, construction work will be done in IP5
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1.2 Waste Water Systems

- Umiujaq:
 - Consultant preparing application to the ministry of environment to lower the water level in one lagoon to provide dry environment in the other to install the membranes;

1.3 Solid Waste Sites

- Kuujjuarapik:
 - 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)
 - Repairs on the access road to be finished by the end of August, including the dumpsite fence repair
- Salluit: (access to new cemetery site)
 - All permits are obtained. We are just waiting for the Authorisation from the ministry of environment, presently MPO and MFFP have issued their authorisations and the Ministry of environment itself already issued an Attestation of Exemption;
- Kuujjuarapik:
 - The new portion of the access road to the new dumpsite be built during summer 2022 to summer 2023 in collaboration with the Cree Nation Government
 - For improvements of the existing portion of the access road to the new dumpsite, biologists were mobilized to complete the field study to complete the environmental permit application requirements;
 - Permits that don't require a biological study have already been applied for;
 - Granular materials for construction of the new portion of the access road have already been produced.
- Puvirnituq (Borrow pit access road -Partially funded by TECQ):
 - Permits applied for: MPO (confirmed it's not required), MFFP (design approved), Ministry of Environ. (Permit application submitted). The design is now final, and we are working on purchasing the needed material.

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Kangiqsualujjuaq: (new construction)
 - Design issues rectified and works completed;
 - Puvirnituq: (new construction)
 - Work continuing and planned for completion in 2022;
- Kangirsuk (Arena demolition and new construction)
 - Substantial completion achieved. Rectification of minor deficiencies in progress. The Eco-Ice system to be commissioned late fall when the outside temperature is suitable;

Component 3 – Rolling Stock – vehicles and heavy equipment

There's an ongoing supply chain issue causing difficulty for manufacturers to commit to delivery dates. A new call for tender was launched with no bids received.

From the last year's purchase:

- Water trucks:
 - Delivery of (3) Water trucks: Kangiqsualujjuaq, Kuujjuaq (1), and Salluit, completed on the first ship;
 - (4) Water trucks: Kuujjuaq (1), Kangirsuk, Ivujivik, and Puvirnituk to be completed on the last ship;
- Delivery of (4) Sewage trucks: Kuujjuaq, Quaqaq, Ivujivik, and Puvirnituk completed on the first ship;
- (3) Garbage trucks: Aupaluk, Ivujivik, Umiujaq are unfortunately delayed and will be delivered next year;
- (1) Gravel dump truck: Kuujjuaq, delivered on the first ship, two of the dump truck have been converted to 1 water and 1 sewage truck, receiving community has been determined to be Inukjuak;
- (4) Loaders for: Kangiqsualujjuaq, Kangirsuk, Quaqaq, and Puvirnituk are scheduled for delivery on the last boat;

Negotiations have started with MAMH for the new phase of the program (IP5). A delegation from MAMH will visit KRG late September and it is expected that the negotiations will finalize during those meetings.

3. PAVING PROGRAM (Ministere Transport du Québec)

- Proposal was submitted to MTQ. However, discussions are on-going to be integrated into IP5.

4. PIVALLIUTIIT 3 and 4 (Secrétariat aux affaires autochtones, aboriginal affairs, SAA)

Program has been closed and all unused funds transferred to the next phase.

- Ivujivik: Community Center (renovation)
 - Correction of deficiencies were scheduled for this summer. We are waiting for the contractor's report;
- Kuujjuarapik: St-Edmunds Church (reconstruction)
 - A second call for tender was launched and the two bids received were deemed not legally conforming to the call for tender requirements. The future of the project will be discussed with the Northern Village.

5. FUEL EXCISE TAX PROGRAM (TECQ) PROGRAM - 4

- Tasiujaq Arena renovation:
 - Call for tender concluded and contract awarded for the first phase of the project;
- Ivujivik Raw Water Pipeline: (Reconstruction)
 - Pipeline material purchased and delivered to the NV.
 - Call for tender to hire a contractor to do the installation works concluded with only one bid received for an amount of nearly \$5,000,000 for works to be completed in 2023. This is beyond the budget and the term of this program and will have to be revisited in IP5 or otherwise.

6. Recreational and Sports Infrastructure Financial Assistance Program (Programme d'aide financière aux infrastructures récréatives et sportives - PAFIRS)

Five new projects have been approved by the Ministry of Education to receive financial assistance. MPW is working with the concerned NVs, Makivik Corp. and the ministry on the next steps of the projects:

- Renovation of the arena - Kangiqsualujjuaq
- Expansion of the Community Centre - Kangirsuk
- Renovation of the Arena - Quaqtaq
- Renovation of the Community Centre - Umiujaq
- Construction of a roof for the outdoor skating rink and a service building - Kuujjuarapik

7. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS

- Firehalls (Civil Security)
 - Kangiqsujuaq, Puvirnituk, Inukjuak: (renovations): Renovation works commenced and are expected to be completed by the end of 2022.
 - Tasiujaq, Aupaluk and Kangirsuk (Renovations): Professional services contracts awarded to an architectural firm to prepare plans and specifications for Call for Tenders. Construction works are planned for 2023.
- Childcare centers:
 - Salluit: Tasiursivik (renovation)
 - Contractor mobilized to correct the deficiencies and we are waiting for the professionals to confirm the work was acceptable.

The Childcare division of the Sustainable Employment Department has resumed responsibility of the childcare renovation projects as per management decision.

8. KRG BUILDING MAINTENANCE

- Daily maintenance:
 - Work to address staff housing and infrastructure issues on-going with half staff and slow down in the supply chain to obtain the required materials.
- KRG Infrastructure work in the region:
- Works on-going;
- Kuujjuaq: Head office (improvements and upgrades)
 - A second call for tender was launched but the lowest conforming bid would cause a project cost of almost 3 times the budget.
 - Internal options are being considered.
- Kuujjuaq: Major work completed on several staff housing units and others have been started.



MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

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Vacant

Assistant Director – Infrastructure division

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Building projects and civil works

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- Water Plant and sewage lagoon maintenance, construction & renovation
- Drinking water quality management
Civil projects (roads, bridge, drainage, paving)

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- Water Plant and sewage lagoon maintenance, construction & renovation
- Drinking water quality management

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Building projects and civil works

Vacant

Road/paving projects and Rolling Stock

Technical Assistance Program

2 project manager positions

Heavy Equipment Mechanic Instructors

Eric Ouellette

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Mechanics Instructors (Nunavik rotation)
Assistance/on-the-job training to municipal mechanics

Vacant

2 instructor positions

Water Plant Maintenance Instructors

Assistance and on-the-job training to municipal operators

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(Temporary Position)

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Water Plant Instructor / Team Leader - Kuujjuaq

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Rotation – Quaqtac, Kangiqsujaq, Salluit and Ivujivik

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Rotation – Akulivik, Puvirnituaq, Inukjuak, Umiujaq and Kuujjuaraapik

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Rotation – Kangiqsualujuaq, Aupaluk, Tasiujaq and Kangirsuk

*: Temporarily out of office

** : New team member

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Vacant

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Vacant – 3 positions

Nunavik Maintenance Crew

Vacant

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Vacant – 2 positions

Assistant Director – Building Maintenance division

- Administration & Management of the Maintenance division

Project Manager Architecture/Construction

- Architecture maintenance projects
- New architecture projects coordination

Project Manager Mechanical/Construction

- Mechanical maintenance projects
- New mechanical projects coordination

Coordinator

Building Maintenance Technicians

- Maintenance of KRG buildings (police stations, airport terminal and garage, office building, staff housing) and Childcare centers

Coordinator

NV Building Maintenance Technicians

(Nunavik rotation)

- 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.