



MUNICIPAL PUBLIC WORKS Department

ACTIVITY REPORT MARCH TO MAY 2023

The primary mandate of the Municipal Public Works Department is to assist the communities in securing 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 cooperation with the northern villages, whose participation is essential to the success of these activities. The Department also provides technical assistance and delivers training to municipal staff to help them increase their knowledge in fields relevant to municipal activities and to make the northern villages more autonomous. Moreover, the Department is also responsible for maintaining all KRG infrastructure.

PROGRAMS

1. TECHNICAL ASSISTANCE PROGRAM (SIVUNIRMUT)

- **Drinking Water and wastewater**
 - 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:

	2019	2020	2021	2022	2023
	50 weeks	50 weeks	50 weeks	52 weeks	19 weeks
Kangiqsualujuaq	93%	94%	95%	92%	100%
Kuujuaq	93%	100%	98%	98%	100%
Tasiujaq	69%	88%	81%	87%	100%
Aupaluk	71%	66%	79%	90%	94%
Kangirsuk	95%	100%	84%	96%	88%
Quaqtaq	62%	78%	65%	96%	82%
Kangiqsujuaq	100%	98%	93%	88%	94%
Salluit	95%	90%	91%	71%	94%
Ivujvik	71%	80%	63%	98%	100%
Akulivik	62%	82%	49%	85%	53%
Puvirnituaq	93%	90%	77%	75%	82%
Inukjuak	71%	92%	86%	73%	94%
Umiujaq	93%	94%	79%	85%	65%
Kuujjuarapik	100%	92%	98%	98%	94%
Average Nunavik	84%	89%	81%	89%	89%

- **Comments:**

- Sampling results:
 - Currently, at 89%, the regional objective is 85%: While the average is above target, there's room to improve testing performances regionally and in particular in the 4 villages that are below 85%; (Quaqtaq, Akulivik, Puvirnituk, Umiujaq));
 - 8 of the 14 operators are at 90% and above (Kangiqsualujuaq, Kuujuaq, Tasiujaq, Aupaluk, Kangiqsujuaq, Salluit, Ivujivik, Inukjuak);
 - The performance of the operators from Akulivik and Umiujaq is **critically low**.
- Physical and chemical testing of raw water and treated water:
 - The first sampling campaign received samples from 7 of 14 communities (Kangiqsualujuaq, Kuujuaq, Tasiujaq, Aupaluk, Kangirsuk, Kangiqsujuaq, Inukjuak).

This test is crucial 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**
 - Evaluation of the adduction pipe/water intake;
 - Maintenance of recirculation and loading pump skids;
 - **Kuujuaq**
 - Replacement of pressure tanks and recirculation pump at pumping station;
 - **Aupaluk**
 - Replacement of the chlorination system
 - Constant monitoring of pumped water from lake;
 - **Kangirsuk**
 - Repair the Puribec pretreatment system (completed);
 - Commissioning the satellite connection system for the raw water pumping station;
 - Resolved electrical problem at the waterplant due to a broken transformer from Hydro Quebec;
 - Recovered flow – prefiltration was clogged;
 - New computer installed at the waterplant;
 - **Quaqtaq**
 - Troubleshooting – problem with automation in the water plant.
 - Troubleshooting – heat trace damaged from power outage;
 - Training of new operator;

- **Salluit**
 - Water intake well #P3 froze in February. The village was able to access raw water via a hole drilled in the estuary. A water truck was designated to fill up and deliver to the well to ensure a continuous supply of raw water to the water plant for treatment.
 - The second basin of the Lagoon had an overflow in March, potentially due to a blockage at the emissary pipe. Plans to repair the heat trace cable for the emissary is scheduled for this summer.
 - The first campaign for the analysis of the source water begun in March. The results will be used to ascertain the best treatment method to address the high turbidity issue during the spring runoff.
- **Ivujivik:**
 - Water from the lake continues to be pumped into the truck, and chlorine is added directly, requiring a continuous notice to boil advisory until the new supply line is constructed.
- **Puvirnituaq**
 - The NV reported a minor pipeline leak, and preparations are done for repair in Spring/Summer.
- **Inukjuak**
 - Assisting the NV in hiring and training the new water plant operator.
- **Umiujaq**
 - Troubleshooting of the SCADA computer.

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

- **Rolling Stock – vehicles and heavy equipment**
 - 8 NVs visited by mechanic-instructor (Tasiujaq, Kangirsuk, Quaqtuaq, Kangiqsujuaq, Ivujivik, Akulivik, Puvirnituaq, and Inukjuak), assisting with repairs and follow-up of preventative maintenance.

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 the proper maintenance and management of the existing fleet is substantially more critical.

It is vital to bear in mind that most overhauls cost above the thresholds required by the law to be procured through calls for tenders (CFT); thus, it is imperative to allow for the proper time and have a detailed scope for such CFTs.

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

Component 1 – Infrastructure

1.1 Drinking Water – Water Plants

- Kuujjuaq: (New)
 - Project was formally completed and closed.

1.2 Solid Waste Sites

- Inukjuak:
 - Design review of new landfill and preparation of site closure and ongoing remediation plan of the existing site; construction to start with IP5.
 - The plans and specifications are completed and a call for tenders to hire a contractor for construction works is launched. Construction works will be under phase 5 of the program.

1.4 Roads

- Kuujjuarapik:
 - Collaborations ongoing with the Cree Nation Government to construct the access road to the new dumpsite. The contract was awarded and the works will start in the summer.

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Kangiqsualujjuaq (new construction):
 - Temporary measures will be carried on in May by a contractor to resolve the design issue related to the snowbank at the air intake, and to adjust controls of the garage doors opening.
 - Puvirnitug: (new construction):
 - The works are substantially completed, and the NV occupies the building. Minor outstanding works are expected to finish this summer.
 - Kangirsuk (Arena demolition and new construction):
 - Major works are completed, ice surface was ready for skating in February. Minor defects still outstanding and should be fully corrected this summer.

Component 3 – Rolling Stock

The three (3) remaining garbage trucks from the 2021 purchases will be delivered on the first boats to Aupaluk, Ivujivk and Umiujaq.

All other purchases will be conducted under IP-5.

IP-4 will be formally closed in June.

3. ISURRUUTIIT PROGRAM 5 (2023-2026) (Ministère des Affaires municipales et de l’Habitation– MAMH)

The agreement was signed and exchanged at the end of February. There are new requirements for the eligibility and selection of the projects that will be communicated to the NVs.

Call for tenders were launched and concluded to purchase water, sewage, garbage and gravel dump trucks as well as a grader for Aupaluk to replace the 20 years old grader. The results are as followed :

- Water trucks: received a bid for five (5) trucks that can be delivered in 2024.
- Sewage and gravel dump trucks : Received a bid for all of the trucks needed, but delivery will be in 2024 (the earliest).
- Garbage trucks : No bids received.

- Grader : one (1) bid received.

4. PIVALLIUTIIT 3 and 4 (Secrétariat aux relations avec les Premières Nations et les Inuit, SRPNI – formerly SAA)

The program has been closed, and all unused funds have been transferred to the next phase.

A second letter was sent to the ministry, further explaining that the proposed funds were insufficient and demanding the amounts of the program to increase.

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

- Water infrastructure upgrades of Kangiqsualujuaq, Kangirsuk, Puvirnituk and Inukjuak ongoing.
- Akulivik municipal garage renovation:
 - Minor remaining works have been completed in March 2023.
- Tasiujaq Arena renovation:
 - The first phase of the project is completed. The reconstruction of the ice rink and sidewalks on hold, price tendered being overbudget.
- Ivujivik Raw Water Pipeline: (Reconstruction):
 - Call for tenders for installation of the pipeline concluded, the contract is awarded, and works are expected to finish in the Fall.

6. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS

- Fire Halls (Civil Security):
 - Kangiqsujuaq: renovation works completed in November 2022.
 - Puvirnituk: minor works still outstanding, renovation is expected to be completed in summer 2023.
 - Inukjuak: renovation works are delayed by the contractor and are expected to begin mid-May 2023 and completed in summer 2023.
 - Tasiujaq, Aupaluk and Kangirsuk (Renovations): the Call for Tenders have been launched in March 2023. Aupaluk firehall renovation will be conducted in 2023. Tasiujaq and Kangirsuk firehalls renovation are postponed to 2024, Call for tenders will be relaunch in May 2023.

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

Collaborations ongoing with the NVs and Makivvik to complete and secure the financial matrix for the five (5) approved projects:

- Kangiqsualujuaq – Renovation of the arena.
- Kangirsuk – Expansion of the community centre.
- Quaqtaq – Renovation of the arena..
- Umiujaq – Renovation of the community center.
- Kuujjuaraapik - Construction of a roof for the outdoor skating rink and a service building.

Following completion of the financial requirements we'll proceed to hiring the consultants to start with preparation of the call for tender packages in collaboration with the NVs.

8. KRG BUILDING MAINTENANCE

- Daily maintenance:
 - Work to address staff housing and infrastructure issues ongoing with reduced 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)
 - The physical renovation work was completed in April 2023.
 - The sound and electrical components will be done by the end of May
- Kuujjuaq: Major work is being planned for specific staff housing units for this year, but exceptional cost increases will affect budget approvals.
- CCQ Workers – In an effort to do more work internally and avoid some of the higher contractor costs, six (6) workers will be hired instead of the regular four (4) to do some of our required renovation work. Some of the CCQ workers have arrived to start work on staff housing units.
- Preparing for the transfer of the duties of the Administration's Operation section to the MPW's Maintenance section.



MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

Phone: 1-877-964-2961 · Fax: (819) 964-0306

Hossein Shafeghati	hshafeghati@krg.ca extension 2322	Director - Administration and management of the Department
Cindy Koneak *	extension 2355	Administrative Technician

INFRASTRUCTURE DIVISION

Alain Tourigny	atourigny@krg.ca extension 2362	Assistant Director – Infrastructure division - Administration and management of the Infrastructure division and Technical Assistance Program
Project Managers		
Alfred Tsui	atsui@krg.ca extension 2354	Water and wastewater infrastructure- Ungava Coast - Water Plant and sewage lagoon maintenance, construction & renovation - Drinking water quality management
Amar Djedid	adjedid@krg.ca extension 2430	Civil projects (roads, bridges, drainage, paving)
Iheoma Nkwoji	inkwoji@krg.ca extension 2380	Water and wastewater infrastructure- Hudson Coast - Water Plant and sewage lagoon maintenance, construction & renovation - Drinking water quality management
Christian Dostie	cdostie@krg.ca extension 2430	Road/paving projects and Rolling Stock

Vacant, six (6) positions

Project Managers

Technical Assistance Program

Vacant***		Coordinator
Heavy Equipment Mechanic Instructors		
Eric Ouellette	eouellette@krg.ca	Mechanics Instructors (Nunavik rotation) Assistance/on-the-job training to municipal mechanics
Matthew Murray	mmurray@krg.ca	
Vacant	One instructor position	
Water Plant Maintenance Instructors		
Ernest Baas (Temporary Position)	ebaas@krg.ca Extension 2377	Assistance and on-the-job training to municipal operators Water Plant Instructor / Team Leader - Kuujjuaq
François Corbeil *		
Frank Stevens	fstevens@krg.ca	Rotation – Quaqtuq, Kangiqsujuaq, Salluit and Ivujivik
Michael Menness	mmeness@krg.ca	Rotation – Akulivik, Puvirnituk, Inukjuak, Umiujaq and Kuujjuaraapik
Patrick Desteredjian	pdesteredjian@krg.ca	Rotation – Kangiqsualujjuaq, Aupaluk, Tasiujaq and Kangirsuk

*: Temporarily out of office

** : New team member

***: New Position

BUILDING MAINTENANCE DIVISION maintenance@krg.ca

Watson A. Fournier wafournier@krg.ca
Extension 2364 **Assistant Director – Building Maintenance division**
- Administration & Management of the Maintenance division

Rebecca Jones ** extension 2391 **Administrative Technician**

Kuujuuaq Maintenance Crew

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Extension 2378 **Coordinator**

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Robert Ekomiak rekomiak@krg.ca

Vacant – 3 positions

Nunavik Maintenance Crew

André Cornellier ** acornellier@krg.ca **Coordinator**

Alain Turcotte aturcotte@krg.ca
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Tyler Welsh twelsh@krg.ca

Vacant – 1 position

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 for NV buildings (water plants, arenas, community centers, swimming pools) to municipal building technicians, etc.

*: Temporarily out of office
**: New team member