



## MUNICIPAL PUBLIC WORKS Department

### ACTIVITY REPORT NOVEMBER 2022 TO FEBRUARY 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

- 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	4 weeks
Kangiqsualujuaq	93%	94%	95%	92%	100%
Kuujjuaq	93%	100%	98%	98%	100%
Tasiujaq	69%	88%	81%	87%	100%
Aupaluk	71%	66%	79%	90%	100%
Kangirsuk	95%	100%	84%	96%	100%
Quaqtaq	62%	78%	65%	96%	100%
Kangiqsuuaq	100%	98%	93%	88%	100%
Salluit	95%	90%	91%	71%	100%
Ivujivik	71%	80%	63%	98%	100%
Akulivik	62%	82%	49%	85%	50%
Puvirnituq	93%	90%	77%	75%	75%
Inukjuak	71%	92%	86%	73%	100%
Umiujaq	93%	94%	79%	85%	100%
Kuujjuarapik	100%	92%	98%	98%	100%
<b>Average Nunavik</b>	<b>84%</b>	<b>89%</b>	<b>81%</b>	<b>89%</b>	<b>95%</b>

- **Comments:**

- Sampling results:
  - Currently, at 95%, the regional objective is 85%: While the average is above target, there's room to improve testing performances regionally and in particular in the two villages that are below 85%; (at the time of preparing this report, only the first four weeks of 2023 have been considered);
  - 12 of the 14 operators are at 90% and above (Kangiqsualujjuaq, Kuujjuaq, Tasiujaq, Aupaluk, Quaqtaq, Salluit, Ivujivik, Inukjuak, Umiujaq, and Kuujjuaraapik);
  - 2 of the 14 operators are below 85% (Akulivik & Puvirnituq).
- Physical and chemical testing of raw water and treated water:
  - The third sampling campaign received samples from 9 of 14 communities.

**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:
  - **Kangiqsualujjuaq**
    - Evaluation of the new filtration system.
  - **Aupaluk:**
    - Replacement of the chlorination system;
    - Singer valve replacement – leaky valve during Christmas break;
    - Disinfection of WTP after detection of the presence of total coliform.
  - **Tasiujaq**
    - Unclogging of Singer valves.
  - **Kangirsuk:**
    - Repair the Puribec pretreatment system;
    - Commissioning the satellite connection system for the raw water pumping station.
  - **Quaqtaq**
    - Troubleshooting – problem with automation in the water plant;
    - Investigation and repair of the automatic transfer switch;
    - Examination of the Pumping station, wall facing lake is pushing inwards.
  - **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.
  - **Puvirnituq**
    - KRG sent a backup computer for temporary replacement of the SCADA system, a new computer was purchased and is currently being programmed;
    - Monitoring a minor pipeline leak and preparation for repair in Spring/Summer.

- **Inukjuak**
  - Assisting the NV in hiring and training the new water plant operator;
  - A new SCADA computer was purchased and is currently being programmed.
- **Umiujaq**
  - Troubleshooting of the SCADA computer;

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

**All NVs with raw water pumping stations and pipelines are reminded to maintain the continuous flow throughout the winter. This misconception that Heat Trace Cables can prevent freezing and/or be used to thaw a frozen pipeline is invalid. Flow and heating of the water in intake and recirculation lines should be maintained at any cost. Please ensure pumping stations always have adequate fuel and are accessible at all times.**

- **Rolling Stock – vehicles and heavy equipment**
  - 4 NVs visited by mechanic-instructor (Akulivik, Ivujivik, Inukjuak and Kangirsuk), 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)
  - Dismantling of the equipment in the old plant was completed, and the building returned to NV;
  - All but two of the deficiencies at the new plant are corrected.

#### 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.

#### 1.4 Roads

- Kuujjuaraapik:
  - Preparation of drawings and specifications to launch the call for tenders to construct the new portion of the access road to the new dumpsite in collaboration with the Cree Nation Government is ongoing. The CFT is expected to be launched this winter (by the CNG).

## **Component 2 – Buildings and other fixed structures**

- Municipal Garages:
  - Kangiqsualujjuaq (new construction):
    - Collaboration with the consultants to resolve the design issue related to the snowbank at the air intake.
    - Puvirnituq: (new construction)
      - The works are substantially completed, and the NV tentatively occupies the building. Minor outstanding works are expected to finish this winter.
  - Kangirsuk (Arena demolition and new construction)
    - Minor outstanding works were completed for the planned public opening in February.

## **Component 3 – Rolling Stock – vehicles and heavy equipment**

Call for tenders launched for purchase of equipment. Should any successful bids are received, awarding of the contracts will be subject to signing the IP-5 agreement.

Negotiations have been finalized with MAMH for the new program phase (IP5), and the agreement was expected to be signed by the end of December 2022. However, MAMH has informed us that there are still details being ironed out between MAMH and MTQ, and we should expect it in March 2023.

## **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 letter was submitted last November by KRG to the ministry asking for an increase in the program funds to account for the high inflation rates in construction in the past decades. The first response received from the SRPNI was not as expected, and MPW is collaborating with the DGO to continue advocating for increased funding.

## **3. FUEL EXCISE TAX PROGRAM (TECQ) PROGRAM - 4**

- Water infrastructure upgrades of Kangiqsualujjuaq, Kangirsuk, Puvirnituq and Inukjuak:
  - Works initiated and ongoing to do the upgrades required urgently, including replacement of obsolete equipment, HTC upgrades, and filtration system.
  - Akulivik municipal garage renovation
    - Minor remaining works are to be completed in 2023.
  - Tasiujaq Arena renovation:
    - The first phase of the project is completed.
  - Ivujivik Raw Water Pipeline: (Reconstruction)
    - Call for tenders for installation of the pipeline launched, awaiting bids.

## **4. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS**

- Fire Halls (Civil Security)
  - Kangiqsujuaq: renovation works completed in November 2022;
  - Puvirnituq and Inukjuak: renovation works are delayed by the contractor and are expected to be completed in summer 2023;

- Tasiujaq, Aupaluk and Kangirsuk (Renovations): preparation of plans and specifications ongoing for the Call for Tenders to be launched in February 2023. Construction works are planned for 2023.
- Childcare centers:
  - Salluit: Tasiursivik (renovation)
    - Defect rectification works completed,

## 5. 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 approved projects:

- Kangiqsualujjuaq – 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.

## 6. 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)
  - Despite the higher than the budgeted amount, the contract was awarded to the contractor. The work will start in March 2023.
- 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.
- Preparing for the transfer of the duties of the Administration's Operation section to the MPW's Maintenance section

**MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES**

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Hossein Shafeqhati	<a href="mailto:hshafeqhati@krg.ca">hshafeqhati@krg.ca</a> extension 2322 Mobile 819-705-8110 extension 2355	<b>Director</b> - Administration and management of the Department <b>Administrative Technician</b>
Cindy Koneak *		

**INFRASTRUCTURE DIVISION**

Vacant		<b>Assistant Director – Infrastructure division</b> - Administration and management of the Infrastructure division and Technical Assistance Program
<b>Project Managers</b>		
Alain Tourigny	<a href="mailto:atourigny@krg.ca">atourigny@krg.ca</a> extension 2362	Building projects and civil works
Alfred Tsui	<a href="mailto:atsui@krg.ca">atsui@krg.ca</a> extension 2354	Water and wastewater infrastructure- Ungava Coast - Water Plant and sewage lagoon maintenance, construction & renovation - Drinking water quality management
Amar Djedid	<a href="mailto:adjedid@krg.ca">adjedid@krg.ca</a> extension 2430	Civil projects (roads, bridges, drainage, paving)
Iheoma Nkwoji	<a href="mailto:inkwoji@krg.ca">inkwoji@krg.ca</a> extension 2380	Water and wastewater infrastructure- Hudson Coast - Water Plant and sewage lagoon maintenance, construction & renovation - Drinking water quality management
Jessica Courte	<a href="mailto:jcourte@krg.ca">jcourte@krg.ca</a> extension 2267	Building projects and civil works
Christian Dostie*	<a href="mailto:cdostie@krg.ca">cdostie@krg.ca</a> extension 2430	Road/paving projects and Rolling Stock
Karl Masse	<a href="mailto:kmasse@krg.ca">kmasse@krg.ca</a>	Project Manager Architecture/Construction - Architecture maintenance projects - New architecture projects coordination
<b>Vacant, three (3) positions</b>		<b>Project Managers</b>

**Technical Assistance Program**

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

\*: Temporarily out of office

\*\*: New team member

\*\*\*: New Position

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**BUILDING MAINTENANCE DIVISION** *[maintenance@krg.ca](mailto:maintenance@krg.ca)*

<b>Watson A. Fournier</b>	<a href="mailto:wafournier@krg.ca">wafournier@krg.ca</a> Extension 2364	<b>Assistant Director – Building Maintenance division</b> - Administration & Management of the Maintenance division
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<b>Kuujjuaq Maintenance Crew</b>		
<b>Miguel Simard</b>	<a href="mailto:msimard@krg.ca">msimard@krg.ca</a> Extension 2378	<b>Coordinator</b>
<b>Alec Ningiuruvik</b>	<a href="mailto:aninqiuruvik@krg.ca">aninqiuruvik@krg.ca</a>	<b>Building Maintenance Technicians</b>
<b>John Chocholacek</b>	<a href="mailto:jchocholacek@krg.ca">jchocholacek@krg.ca</a>	- Maintenance of KRG buildings (police stations, airport terminal and garage, office building, staff housing) and Childcare centers
<b>Maxime Dupont</b>	<a href="mailto:mdupont@krg.ca">mdupont@krg.ca</a>	
<b>Robert Ekomiaq</b>	<a href="mailto:rekomiak@krg.ca">rekomiak@krg.ca</a>	
Vacant – 3 positions		
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<b>Nunavik Maintenance Crew</b>		
Vacant		<b>Coordinator</b>
<b>Alain Turcotte</b>	<a href="mailto:aturcotte@krg.ca">aturcotte@krg.ca</a>	<b>NV Building Maintenance Technicians</b> (Nunavik rotation)
<b>David-A. Langevin</b>	<a href="mailto:dalangevin@krg.ca">dalangevin@krg.ca</a>	- Maintenance of KRG buildings (police stations, airport terminals and garages, office buildings, staff housing) and Childcare centers
<b>Denis Lafreniere*</b>	<a href="mailto:dlafreniere@krg.ca">dlafreniere@krg.ca</a>	Assistance/on-the-job training for NV buildings (water plants, arenas, community centers, swimming pools) to municipal building technicians, etc.
<b>Émile Lebel</b>	<a href="mailto:elebel@krg.ca">elebel@krg.ca</a>	
<b>Eric Chamberland</b>	<a href="mailto:echamberland@krg.ca">echamberland@krg.ca</a>	
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<b>Rodney Vezina</b>	<a href="mailto:rvezina@krg.ca">rvezina@krg.ca</a>	
<b>Tyler Welsh</b>	<a href="mailto:twelsh@krg.ca">twelsh@krg.ca</a>	
Vacant – 1 position		

\*: Temporarily out of office

\*\*: New team member