



MUNICIPAL PUBLIC WORKS department

ACTIVITY REPORT FEBRUARY TO MAY, 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 18 weeks
Kangiqualujuaq	90%	93%	94%	95%	94%
Kuujuaq	92%	93%	100%	98%	100%
Tasiujaq	62%	69%	88%	81%	94%
Aupaluk	96%	71%	66%	79%	89%
Kangirsuk	96%	95%	100%	84%	100%
Quaqtaq	90%	62%	78%	65%	94%
Kangirsujuaq	98%	100%	98%	93%	89%
Salluit	90%	95%	90%	91%	72%
Ivujivik	60%	71%	80%	63%	100%
Akulivik	84%	62%	82%	49%	83%
Puvirnituaq	82%	93%	90%	77%	50%
Inukjuak	58%	71%	92%	86%	78%
Umiujaq	94%	93%	94%	79%	94%
Kuujuaapik	96%	100%	92%	98%	100%
Average Nunavik	85%	84%	89%	81%	88%

- **Comments:**

- Sampling results:
 - Currently at **88%**, 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 6 villages that are below 85%;
 - 8 of 14 operators at 90% and above (Kangiqsualujjuaq, Kuujjuaq, Tasiujaq, Kangirsuk, Quaqtac, Ivujivik, Umiujaq and Kuujjuaraapik)
 - 2 of 14 operators between 85% and 90%, (Aupaluk and Kangirsujuaq)
 - 4 of the 14 operators between 50% and 85% (Salluit, Akulivik, Puvirnituc, and Inukjuak)
- Physical and chemical testing of raw water and treated water:
 - For the First sampling campaign, samples were received from 10 of 14 communities. They include: Kangiqsualujjuaq, Kuujjuaq, Tasiujaq, Aupaluk, Quaqtac, Kangirsujuaq, Salluit, Akulivik, Umiujaq and Kuujjuaraapik. Akulivik's sample was however damaged in transit and was not analyzed. Kangirsuk was lost in transit. Three villages did not send samples for analysis, and they are Ivujivik, Puvirnituc, and Inukjuak.

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:
 - **Kangiqsualujjuaq:**
 - Troubleshooting of the recirculation line and public tap;
 - **Kangirsuk:**
 - Troubleshooting of the raw water pipeline and its heat trace system, the raw water pumping station, and the chemical treatment system;
 - **Kangirsujuaq:** (supply line frozen)
 - Working with the NV to reestablish flow in the supply line to the 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:**
 - Glycol recirculation pumps for the treatment plant have been purchased by the NV;
 - **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;
 - **Akulivik:**
 - Preparation of the tools and accessories needed to reclaim the sunk raw water pump for further repairs;
 - **Puvirnituc:**
 - Working with the NV to reestablish flow in the frozen pipeline. Flow has since been re-established;

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

NVs are reminded to purchase chlorine for the sealift. Chlorine is a hazardous material and is difficult and expensive for airfreight.

- **Wastewater:**
 - Salluit:**
 - The replacement for the burst valve has been delivered;
 - Preparation of tools and accessories ongoing, replacement work tentatively planned for June 2022;
 - Further electrical repairs to be done after valve replacement;
- **Rolling Stock – vehicles and heavy equipment**
 - 3 NVs visited by mechanic-instructor (Ivujivik, Akulivik, Quaqtaq), 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;
- 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

1.2 Waste Water Systems

- Umiujaq:
 - Call for tender concluded and contract awarded to purchase and ship membranes,
 - Work to continue this season;

1.3 Solid Waste Sites

- Kuujjuaraapik:
 - 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;
 - Preparation of construction and call for tender documents for the new road to access the new site (600m) completed;
- 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)

- Work to be done 2022~2023 with new design as per ministry regulations;
- Salluit: (access to new cemetery site)
 - Access road work continued, confirmation of final layout of cemetery to be determined;
 - Permits to be applied for in summer 2022
- Kuujuaaraapik:
 - Access road to be built during summer 2022 to summer 2023
 - Biological study to be carried out in July 2022
- Puvirnituk (Borrow pit access road -Partially funded by TECQ):
 - Design work completed by an external firm in collaboration with RRD. All authorisations to be applied for in summer 2022. Construction work expected in 2023;

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Kangiqsualujjuaq and Inukjuak: (new construction)
 - Both buildings are completed and in use;
 - Design issues to be corrected in Kangiqsualujjuaq;
 - Puvirnituk: (new construction)
 - Work continuing and planned for completion in 2022;
- Kangirsuk (Arena demolition and new construction)
 - Construction work on-going and to be completed in 2022;

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:

- (7) Water trucks: Kangiqsualujjuaq, Kuujuaq (2), Kangirsuk, Salluit, Ivujivik, Puvirnituk to be delivered on first ship;
- (4) Sewage trucks: Kuujuaq, Quaataq, Ivujivik, Puvirnituk to be delivered on first ship;
- (3) Garbage trucks: Aupaluk, Ivujivik, Umiujaq to be delivered on the last ship;
- (1) Gravel dump truck: Kuujuaq, to be delivered on the first ship, two of the dump truck have been converted to 1 water and 1 sewage truck, receiving communities to be confirmed based on urgency;
- (4) Loaders: Kangiqsualujjuaq, Kangirsuk, Quaataq, Puvirnituk to be delivered on the first ship;

Negotiations have started with MAMH for the new phase of the program (IP5)

3. PAVING PROGRAM (Ministere Transport du Quebec)

- Proposal was submitted to MTQ. However, we have been advised by MAMH that MAMH might take over this program from MTQ. It will be discussed with MAMH at the same time with IP5 negotiations;

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)
 - 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 was launched and the bids were much higher than budgeted. Looking into what can be done to re-issue a next call for tender.

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

- Tasiujaq Arena renovation:
 - Consultant hired to visit and start preparing the construction documents;
- Salluit Arena renovation:
 - Architect and engineer visited and inspected the building and their report states that the minimum budget required is \$10,000,000. The funds available in the program are not sufficient (voted budget is about \$600,000)
- 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
- Projects on hold due to insufficiency of funds;
- Firehalls (Civil Security)
 - Kangirsujuaq, Puvirnituk, Inukjuak: (renovations)
 - Contracts have been awarded to contractors; renovation to be completed by the end of 2022.
- Nunavik Parks Infrastructures (Renewable Resources Department)
 - All parks:
 - Collaboration to design substructure for the pre-fab boat shelters in accordance with the codes;
- 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 need to prepare plans & specifications for reconstruction of technical crawl space;
 - Tasiujaq: Qulliapiik (renovation)
 - Report completed after site visit, center is generally in good condition;
 - Scope of work to be defined with consultant;
 - Puvirnituk: Sarliataurvik: (renovation)
 - Initial visit and report is completed;
 - Scope of work to be defined with consultant;
 - 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;
 - Scope of work to be defined with consultant;
 - Kangiqsualujuaq Community Center (mold issues)
 - Consultants hired, visits and inspections ongoing to determine scope of work and budget;

7. KRG BUILDING MAINTENANCE

- Daily maintenance:
 - Work to address staff housing and infrastructure issues on-going;

- Much time spent by rotating building technicians on water plant issues in several villages
- Much work spent by rotating building technicians on frozen buildings due to lack of fuel delivery
- 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 the consultant in order to launch a call for tender during the summer;
- Kuujjuaq houses 828 and 573
 - Consultant hired to prepare drawings and specifications for decontamination and construction works;
- Kuujjuaq: Head office (improvements and upgrades)
 - Call for tender launched but no bids were deposited



MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

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Vacant Project manager positions
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Vacant Mechanic Instructors (2
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* Temporarily out of office

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

Project Manager Infrastructure

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

Project Manager Water infrastructure

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

Project Manager Engineering

- Solid waste site projects (new and refit)

Project Manager Water infrastructure

Mechanics Instructors (Nunavik rotation)

- Assistance/on-the-job training to municipal mechanics

Water Plant Instructor / Team Leader

Water Plant Maintenance Instructors (Nunavik rotation)

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

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