



MUNICIPAL PUBLIC WORKS department

ACTIVITY REPORT SEPTEMBER 2021 TO NOVEMBER 2021

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 43 weeks
Kangiqualujuaq	100%	90%	93%	94%	95%
Kuujuaq	92%	92%	93%	100%	95%
Tasiujaq	72%	62%	69%	88%	81%
Aupaluk	90%	96%	71%	66%	79%
Kangirsuk	90%	96%	95%	100%	84%
Quaqtaq	96%	90%	62%	78%	65%
Kangirsujuaq	96%	98%	100%	98%	93%
Salluit	93%	90%	95%	90%	91%
Ivujivik	60%	60%	71%	80%	63%
Akulivik	78%	84%	62%	82%	49%
Puvirnituq	86%	82%	93%	90%	79%
Inukjuak	76%	58%	71%	92%	86%
Umiujaq	96%	94%	93%	94%	79%
Kuujuaapik	94%	96%	100%	92%	98%
Average Nunavik	87%	85%	84%	89%	81%

- **Comments:**

- Sampling results:
 - Currently at **81%**, regional objective is 85%: major step-back since the previous years but improved slightly since last report;
 - 5 of 14 operators at 90% and above (Kangiqsualujuaq, Kuujuaq, Kangirsujuaq, Salluit, and Kuujjuaraapik)
 - 1 of 14 operators between 85% and 90%, (Inukjuak)
 - 7 of the 14 operators between 50% and 85% (Tasiujaq, Aupaluk, Kangirsuk, Quaqtac, Ivujivik, Puvirnituc and Umiujaq)
 - 1 of the 14 operators below 50% (Akulivik):
 - **Major and immediate improvements are required**
 - 8 Villages under 85% (Tasiujaq, Aupaluk, Kangirsuk, Quaqtac, Ivujivik, Akulivik, Puvirnituc and Umiujaq) likely a combination of not submitting results on time and the reservoir retrofit projects during summer.
 - Continued efforts are needed to maintain and improve testing performances regionally;
- NVs should continue sending water samples to the hospital to validate results;
- Physical and chemical testing of raw water and treated water:
 - Following the June campaign, samples were received from only 7 of 14 communities, samples from Kangirsuk, Kangiqsujuaq, Salluit, Ivujivik, Akulivik, Inukjuak and Umiujaq were not received;
 - Next sampling campaign planned for the week of November 22;

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;
 - Aupaluk (supply line repair)
 - Supply line leaks were located this summer and repaired;
 - Hibernation mode of system performed for end of season;
 - Tasiujaq (settlement of reservoir)
 - Contract was awarded and the level was corrected. Monitoring to be followed after spring thaw;
 - Kangirsuk (various issues)
 - Exposed pipeline repairs covered and protected;
 - Manholes properly marked for snow clearing;
 - Communication issue between pumping station and distribution plant to be confirmed;
 - Heating issues to be addressed at pumping station and distribution plant with village;
 - Quaqtac: (supply line)
 - Contractor completed heat trace repairs, remaining work is to replace the transfer switch;
 - Kangirsujuaq: (supply line achors)
 - Working with the NV to resecure the anchor points damaged by heavy loads on the supply line to the source lake;
 - Salluit: (frozen intake line at source)
 - Heat trace work was completed from source to pumping station;
 - New raw water pump was installed, heat trace at pumping station remains to be repaired;

- Ivujivik: (frozen supply line repair)
 - Contract was awarded and work on-going;
 - Direct connection for filling trucks at the pumping station remains until repair to supply line is completed;
 - Chlorine treatment added to tanks and standard tests are performed to ensure quality of water;
- Inukjuak/ Puvirnituq: (Raw water intake)
 - Contract for underwater inspection postponed to 2022;
- **Rolling Stock – vehicles and heavy equipment**
 - 6 NVs visited by mechanic-instructors (Kuujjuaq, Tasiujaq, Aupaluk, Quaqaq, Ivujivik, Akulivik), assisting on repairs and follow-up of existing overhaul projects;
- **Sports and Recreation Infrastructure – arenas, community centers, swimming pools.**
 - Following the tour for the arenas, reports to be relayed to appropriate villages for materials and work required;

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: (Infrastructure needs)
 - Proposal for additional reservoir from consultant under review;
 - Direct connection for raw water to treatment plant ready for use this winter;
- Kangirsujuaq: (damaged loading arm)
 - Completed installation of platform and loading arm;
- Water Reservoir Tank refits:
 - All works completed for Tasiujaq, Kangirsuk, Quaqaq, Salluit, Ivujivik and Inukjuak;

1.2 Waste Water Systems

- Kangirsujuaq:
 - Work delayed to 2022.

1.3 Solid Waste Sites

- Kuujjuaraapik:
 - Existing sites:
 - Preparation of site closure and remediation plan – on-going;
 - Site visits performed in October to collect in field data;
 - New landfill site Project:
 - Cost sharing agreement has been signed by both communities of Kuujjuaraapik and Whapmagoostui;
 - Permit obtained for 600m portion of new access road located in the Kuujjuaraapik territory;
 - 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;
 - Site visit performed in October by engineering firm to collect additional data;
- 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

- Kangiqsualujjuaq: (new development area)
 - NV continued work past Parks Pavillion;
- Kangirsuk: (access to new dump site)
 - Work to be done 2022 with new design as per ministry regulations;
- Quaqtaq: (new development area)
 - Construction work finished for the season;
- Salluit: (access to new cemetery site)
 - Access road work continued, confirmation of final layout of cemetery to be determined;
- Puvirnitug: (new development area)
 - Follow up required with village on road works;
- Kuujjuaraapik:
 - Granular material purchased for road construction 2021-2022;

Component 2 – Buildings and other fixed structures

- Municipal Garages:
 - Kangiqsualujjuaq and Inukjuak: (new construction)
 - Both buildings are scheduled to be completed in December 2021;
 - Puvirnitug: (new construction)
 - Foundation work began end of October;
 - Building envelope still planned for 2021 and final completion early 2022;
 - Kangirsuk (Arena demolition and new construction)
 - Construction work on-going and to be completed June 2022;

Component 3 – Rolling Stock – vehicles and heavy equipment

- Impacts to the supply chain due to COVID-19 have delayed the delivery of the trucks and loaders to the first ship in 2022;
 - (7) Water trucks: Kangiqsualujjuaq, Kuujjuaq (2), Kangirsuk, Salluit, Ivujivik, Puvirnitug
 - (4) Sewage trucks: Kuujjuaq, Quaqtaq, Ivujivik, Puvirnitug
 - (3) Garbage trucks: Aupaluk, Ivujivik, Umiujaq
 - (3) Gravel dump trucks: Kuujjuaq, Aupaluk, Puvirnitug
 - (4) Loaders: Kangiqsualujjuaq, Kangirsuk, Quaqtaq, Puvirnitug
- (1) Grader for Akulivik arrived on the last boat.

3. PAVING PROGRAM (MTQ)

- Proposal submitted and awaiting for MTQ response to begin discussions;

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;
- Kuujjuaraapik: St-Edmunds Church (renovation)
 - Consultant working to redefine project with village following site visit and report;
- Kangiqsualujjuaq: Community workshop (construction)
 - Professionals to be mandated to prepare plans & specifications

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

- Akulivik Municipal Garage: (heating system renovation)
 - Materials/equipment are on site. Contract for installation of heating system tender was launched again and opens November 8;

6. PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS

- Police stations (NPS) – (new construction): Puvirnituk and Inukjuak
 - Call for tenders opened August 25 and bids were over budget;
 - Discussions required to review tri-partite agreement funding and plan for 2022;
- Firehalls (Civil Security)
 - Akulivik, (renovation)
 - Inspections completed, pad issue to be addressed before plans and specifications, work planned for 2022;
 - Kangirsujuaq, Puvirnituk, Inukjuak: (renovations)
 - Inspections completed, preparation for a CFT to follow by the end of 2021, work planned for 2022;
 - Kuujjuaq : (renovation or new construction to be confirmed)
 - Projected for completion 2022-2023;
 - Salluit: (renovation or new construction to be confirmed)
 - Decision required quickly to continue projected work in 2022;
- Nunavik Parks Infrastructures (Renewable Resources Department)
 - Kangirsujuaq: Pingualuit Interpretation Center (renovation)
 - Renovation work planned for summer 2022;
- Childcare centers:
 - Salluit: Tasiursivik (renovation)
 - Work on-going and expected to be completed in December 2021;
 - Kuujjuaq: Iqitauvik (renovation)
 - Consultant preparing final report;
 - Kuujjuaq: Tumiapiit (mold remediation)
 - Staff to continue changing air filters regularly until renovation completed;
 - Professional to prepare plans & specifications for reconstruction of technical crawl space and award contract for renovation works of building in 2022;
 - Inspection tour remaining for two childcare centers to confirm scope of work and prioritization for work in 2022 (renovations)
 - Tasiujaq (Qulliapik): November 2021;
 - Puvirnituk (Sarliataurvik): Initial visit by project manager completed in October;
 - Aupaluk (Sukliateet) mechanical room renovation:
 - heating system upgrade to be coordinated with childcare center;
- Puvirnituk: Family House (NV renovation project)
 - Work is on-going and is to be completed by December 2021;
- Puvirnituk: Community center (NV renovation project)
 - Construction resumed and shall be completed by December 2021;

7. KRG BUILDING MAINTENANCE

- Daily maintenance:
 - Work to address staff housing and infrastructure issues on-going;
- Preventative maintenance inspections:
 - Continued work to prepare and implement new preventive maintenance tours are on-going;
- KRG Infrastructure work in the region:
 - Works on-going;
 - Courthouse and two (2) multiplex apartment buildings heating systems renovation
 - Reviewing reports, options and costs proposed by the professionals;
- Kuujjuaq: Head office (improvements and upgrades)
 - Reviewing plans, specifications and costs associated;



MUNICIPAL PUBLIC WORKS DEPARTMENT EMPLOYEES

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(New hire, starting week #48)

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 Managers 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

- Dumpsite projects (new and refit)

Project Manager Infrastructure

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

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Assistant Director – Building Maintenance division

- Administration & Management of the Maintenance division

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Project Manager Architecture/Construction

- Architecture maintenance projects
- New architecture projects coordination

Vacant

Project Manager Mechanical/Construction

- Mechanical maintenance projects
- New mechanical projects coordination

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Coordinator-Nunavik technicians

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Building Maintenance Technicians (Kuuujuaq)

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

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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.

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