



MUNICIPAL PUBLIC WORKS Department

ACTIVITY REPORT JUNE TO SEPTEMBER 2024

The Municipal Public Works Department assists the Northern Villages in securing the infrastructure and equipment necessary for their development. All of the Department's activities in this respect are performed in close cooperation with the Northern Villages, whose participation is essential to the success of these activities. The Department also provides technical assistance and training to municipal staff to increase 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

TECHNICAL ASSISTANCE PROGRAM (SIVUNIRMUT)

- Drinking water and wastewater

Operators received day-to-day assistance by phone (troubleshooting, repairs, system adjustments, part purchases, follow-up on samplings/tests, and so on).

Bacteriological Analysis – Colilert Sampling Results

	2021	2022	2023	2024
	50 weeks	52 weeks	50 weeks	34 weeks
Kangiqsualujuaq	95%	92%	82%	97%
Kuujuaq	98%	98%	98%	100%
Tasiujaq	81%	87%	88%	91%
Aupaluk	79%	90%	92%	97%
Kangirsuk	84%	96%	88%	76%
Quaqtaq	65%	96%	82%	85%
Kangiqsujuaq	93%	88%	80%	91%
Salluit	91%	71%	92%	94%
Ivujivik	63%	98%	98%	71%
Akulivik	49%	85%	74%	91%
Puvirnituq	77%	75%	66%	85%
Inukjuak	86%	73%	90%	97%
Umiujaq	79%	85%	60%	79%
Kuujjuarapik	98%	98%	96%	100%
Average Nunavik	81%	89%	85%	90%

Sampling results:

- We are at 90%; the regional objective is 85%. The regional average is above target, but there's a need to improve testing performance regionally, and particularly in three villages below 85% (Kangirsuk, Ivujivik, and Umiujaq). Performance of the operators from Ivujivik and Umiujaq is critically low.
- Nine of 14 operators are at 90% and above (Kangiqualujuaq, Kuujuaq, Tasiujaq, Aupaluk, Kangisujuaq, Salluit, Akulivik, Inukjuak, and Kuujuaaraapik)
- Physical and chemical testing of raw and treated water:
 - Most recent sampling campaign (April) received samples from only nine communities (Kangiqualujuaq, Kuujuaq, Tasiujaq, Aupaluk, Quaqaq, Kangisujuaq, Salluit, Inukjuak, and Kuujuaaraapik). Others either didn't send the samples or samples didn't arrive at the laboratory in time for testing.
 - A third testing campaign is in progress, and results will be ready by end of September.

This test is crucial since it tracks potential changes to the quality of source water (lakes and rivers) and confirms if existing treatment processes continues to produce safe drinking water.

- Proficiency testing undertaken in collaboration with Québec Ministry of Environment (MELCCFP):
- This test is conducted by Ministry of Environment twice a year to ensure operators are proficient in performing safe and reliable microbiological sampling and reading.
 - Nine of 14 communities completed the first Proficiency testing campaign of 2024 (Kangiqualujuaq, Kuujuaq, Tasiujaq, Aupaluk, Quaqaq, Salluit, Puvirnituaq, Umiujaq, Kuujuaaraapik)
 - Test kits were shipped in Q3 for a second campaign, and the Ministry is awaiting results.

The Northern Villages are responsible for ensuring employees follow the regulatory tests.

- Interventions made in collaboration with operators and communities on water infrastructure issues.
- Development of a new software application combined with centralized and automated phone system is ongoing to improve user experience in requesting water and sewage services, and communicating boil water advisories to users through push notifications. This integrated system will provide KRG and the NVs with valuable data to identify focus areas for improvement. It can also help with route planning for the trucks to increase efficiency, and reduce vehicle wear and fuel consumption. A version of the app is ready to be presented to NV Kuujuaq for approval to start pilot testing.

- Kangiqualujuaq

- Investigation – Leaks in the pipeline; leak detection device ordered - ongoing

- Aupaluk

- Installed pump skid in river – completed
- Investigation - damages to pipeline from Makivvik construction site – ongoing

- Kangirsuk

- Replacement of chlorine skid – ongoing
- Repair Heating in Pumping Station and Water Plant – ongoing

- Kangisujuaq

- Troubleshooting – heat trace sections that are not working - completed
- Investigation – Pad constructed by LHC & KI over pipeline – ongoing
- Investigation – Relocation of poles from Hydro Quebec in proximity of pipeline – ongoing
- Construction – Second Wastewater Lagoon - ongoing

- **Quaqtaq**
 - Troubleshooting – heat trace damaged from power outage - ongoing
- **Ivujivik**
 - Extensive support and intervention ongoing to assist NV in managing rolling stock and drinking water infrastructure
- **Umiujaq**
 - Filling up interannual basin – completed
 - Ordered new pump for filling up interannual basin for next season
- All 14 NVs have been visited by KRG instructors at least once during this period, providing hands-on training and assistance with troubleshooting inventory management and identifying, sourcing, and ordering required spare parts and consumables.
- **Rolling Stock – vehicles and heavy equipment**
 - Seven NVs visited by mechanic-instructors, assisting with repairs and follow-up preventative maintenance

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

ISURRUUTIIT PROGRAM 5 (2023-2026) (Ministry of Municipal Affairs and Housing - MAMH)

The Northern Villages Municipal Infrastructure Agreement was signed between KRG and MAMH in April 2023 to build and improve municipal infrastructure. It provides an envelope grant of \$153.8 million to KRG to invest in NV infrastructure projects and studies and to manage the program.

To date, 109 projects and purchases of \$115.1 million have been voted on and are in progress, representing 75% of funding. An amount of \$38.7 million remains, split between roads (\$14.9 million) and infrastructure and rolling stock (\$23.8 million). From the latter, \$7.5 million is earmarked for additional rolling stock purchases subject to MAMH's approval, leaving \$16.3 million available for all other infrastructure. Please see Appendix 1 for more details.

Component 1 – Drinking water infrastructure

- **Aupaluk and Akulivik**
 - Engineering works ongoing to prepare CFT documents for significant upgrades and required increases of water storage capacities
 - Pre-purchase of new reservoirs concluded
- **Aupaluk**
 - Launched CFT for blasting for the proposed reservoir
- **Salluit**
 - Engineering works ongoing to prepare CFT documents for major upgrades of the water intake system as well as the addition of a suitable filtration system

- **Kangirsuk**
 - CFT for upgrading the heat trace system was concluded, and a contract was awarded
 - Loading Arm platform purchased
- **Quaqtaq**
 - Professional service contract awarded for water system repairs and upgrades
- **Kangiqsujuaq**
 - CFT documents for pipeline reparation – 90%
 - CFT documents for replacing heat trace cables – 50%
 - Land survey for Cadastral map of water pipeline - ongoing
- **Inukjuak**
 - Project to replace loading platform, SCADA system, and miscellaneous upgrades awarded and works completed
- **Kuujjuaraapik**
 - Project to upgrade control and automation system: works planned to begin this month and be completed before the end of the year

Component 2 – Wastewater and stormwater infrastructure

- **Kangirsuk**
 - Professional services contract for wastewater pumping station - commenced
- **Kangiqsujuaq**
 - Preparations to resume construction are ongoing; site works completed by October
- **Salluit**
 - Concept and feasibility study in progress to find optimal solution for pipeline and pumping station or a treatment system
 - Repair of freeze protection system at existing lagoon commenced; expected to be completed before the end of the year
- **Puvirnituaq and Umiujaq**
 - Production of CFT documents in progress; construction works expected to start in 2024 in Umiujaq and 2025 in Puvirnituaq
- **Inukjuak**
 - Project to repair lagoon system: investigations and surveying in progress to design the optimum solution

Component 3 – Municipal service infrastructure

- Project requests are received, and evaluations are ongoing to prioritize and select projects that meet the selection criteria

Component 4 – Waste management infrastructure

- **Inukjuak:** Construction of the new landfill site is ongoing

Component 5 – Local road infrastructure

- **Kangihsualujuaq**
 - Extending housing development road to allow for the construction of remaining houses
- **Tasiujaq**
 - Draining new housing development area and corrective repairs on its road, including improving drainage and placing two more culverts
 - Pads completed and access road ready to be finished
- **Kangirsuk**
 - Construction of 2023 new housing development road partially completed to allow for housing construction works to proceed
- **Kangihsujuaq**
 - Design of second access road to new housing development area completed
- **Salluit**
 - Construction of 2023 new housing development road mainly completed to allow for completion of housing construction works
 - Second access road finished
- **Puvirnitug**
 - Call for tender launched for new burrow pit road
- **Kuujjuarapik** (access to the new solid waste site)
 - CFT concluded, and bids opened for the 5.2-kilometre road widening project
- Planning activities for new housing development projects are ongoing in all NVs in collaboration with the Land Use Planning Section of the Renewable Resources Department and Makivvik.

Component 6 – Rolling stock

- Deliveries of rolling stock began with the first sealift; and continues through the last sealift and into 2025
- Additional funds requested from MAMH for further purchases next year

Component 7 – Studies

- Professional services contract awarded, and works commenced for a comprehensive study of the status of roads in Nunavik and the design of optimum paving solutions
- Professional services contract awarded for Nunavik water and wastewater study
- Professional services contract awarded for evaluation of changes to wastewater regulations

PIVALLIUTIIT 5 (Secrétariat aux relations avec les Premières Nations et les Inuit (SRPNI – fmr. SAA)

MPW is responsible for the Community Infrastructure Project Funding Framework of The Indigenous Initiatives Fund IV In Nunavik (PIVALLIUTIIT 5). This Agreement establishes commitments to promoting economic development, the creation or consolidation of jobs, the start-up or development of businesses, and the renewal and improvement of infrastructure to improve the well-being and living conditions of the Kativik region's population.

Through IIF IV, Québec is making available until March 31, 2027, a budget to the KRG of \$21 million to finance community infrastructure projects according to KRG-defined priorities and needs. The MPW is responsible for selecting community infrastructure projects for AIF IV financial aid. These projects must meet specific program criteria, and financial assistance for each NV cannot exceed \$4 million.

Planning, budgeting, and design work for all projects in this program will be completed this year, and all selected projects will be completed in 2025 and 2026.

Collaboration with SRPNI continues to verify and reconcile residual amounts from previous phases that will be added to the current phase.

Other programs, such as TECQ, PAFIRS, and Makivvik's ICIF, will jointly fund some projects.

FUEL EXCISE TAX PROGRAM (TECQ) PROGRAM (phases 4 and 5)

The current iteration of the Program (phase 4) is in its final stage, with only one project ongoing:

- Tasiujaq Arena renovation (jointly funded by PIVALLIUTIIT 5); construction of phase 2 started in May

Confirmation was received from MAMH for phase 5, with a total envelope of \$11.1 million. The terms and conditions of the program are being translated and evaluated to ensure that projects start in compliance.

RECREATIONAL AND SPORTS INFRASTRUCTURE FINANCIAL ASSISTANCE PROGRAM (PAFIRS)

- Preparation of call-for-tender documents for hiring consultant(s) is in progress
- Negotiations undertaken for financial and project management collaboration with Makivvik, which provides a portion of the funds for these projects

PROJECT MANAGEMENT FOR OTHER KRG DEPARTMENTS

Fire Halls (Civil Security Department)

- **Aupaluk:** Firehall's minor deficiencies are corrected in August 2024.
- **Kangirsuk and Tasiujaq:** Construction began in July; expected completion Q4 2024
- **Puvirnituaq, Inukjuak, and Kangiqsujaq:** Deficiency lists closed except for minor items; certificate of completion expected to be issued Q4 2024
- **Kangiqsujaq:** Project delivered in November 2023. Repairs as per the deficiencies list are ongoing. Expected completion: November 2024

- **Quaqtaq** and **Akulivik**: Started construction in July; expected completion Q4 2024
- **Salluit**: Construction contract awarded, start of construction planned for Summer 2025

Community Freezers (Renewable Resources Department)

- **Quaqtaq**: The Building was delivered in August; minor works are to be completed by NV, and awaiting the contractor to deliver the building material

New fuel tank at Akulivik airport garage (Transport Department)

- MPW assisting with fuel tank replacement at the airport garage and support for site decontamination

KRG HOUSING PROJECTS

- Major Renovation of house #573 in Kuujjuaq completed, and unit now occupied
- Major Renovation to houses #638 delayed until next year
- Major Renovation to house #1249 will be delivered by December
- Major Renovation to house #1251 delivered
- Major Renovation to houses #1081 & 1265 planned for next year
- Renovation of quadruplexes 1480 & 1482 started in May; available by December. Planning works to replace end-of-life housing units 644 and 645 commenced.
- Planning initiated to renovate and fix major issues in unit 690A
- New staff housing projects:
 - Construction of two multiplex buildings with 32 apartments:
 - o Nayumivik Landholding Corporation of Kuujjuaq has approved the location of the two buildings
 - o Land surveying, geotechnical investigations, and preparation of call-for-tender documents initiated, and construction expected to start in the spring/summer of 2025

KRG BUILDING MAINTENANCE

- Daily maintenance ongoing
- KRG Office Kuujjuaq: Service contracts awarded for office HVAC upgrade and expansion and upgrade of the building's west entrance
- Planning initiated for rearrangement and provision of new furniture for several departments
- Despite reduced staff, we continue to address the work-order backlog of staff housing and building issues

- A new computerized maintenance management system (Maintain-X) was launched. It will give us better control and reporting on building repairs and preventive maintenance issues. It is also being used for our light vehicle fleet.
- Kuujjuaq: The Blue workshop suffered major damage on April 18. We lost most of our construction tools and materials destined for major repairs. We have started repairs and planning for an enlargement in 2025.
- Kuujjuaq: working on replacing the furnaces of the seven Bo-plex houses. Four should be done by December, and the remaining three should be done by spring 2025.
- The MPW Operations Section continues to be impacted by extended medical and other staff leaves, which are slowing down operations.
- Umiujaq: The public call for tender bids for Tursujuq Parks Pavilion's repair was more than twice the available budget. Once additional funding can be confirmed, the public tender will be relaunched. Meanwhile, a temporary heating solution is being envisaged to get through the winter.

APPENDIX 1 – BRIEF FINANCIAL STATUS OF ISURRUUTIIT PROGRAM 5

Component	Count of Approved Projects	Sum of Approved Budget
1-Drinking water infrastructure	12	\$ 41,885,000
1.1	5	\$ 24,830,000
1.2	6	\$ 11,835,000
1.3	1	\$ 5,220,000
2-Wastewater and stormwater infrastructure	3	\$ 2,730,000
2.1	1	\$ 1,000,000
2.2	2	\$ 1,730,000
3-Municipal service infrastructure	2	\$ 856,000
3.1	1	\$ 200,000
3.2	1	\$ 656,000
4-Waste management infrastructure	1	\$ 8,050,000
4.1	1	\$ 8,050,000
5-Local road infrastructure	23	\$ 34,312,470
5.1	22	\$ 29,012,470
5.2	1	\$ 5,300,000
6-Rolling stock	66	\$ 25,685,000
6.1	24	\$ 10,375,000
6.2	18	\$ 7,510,000
6.3	8	\$ 2,290,000
6.4	16	\$ 5,510,000
7-Studies	2	\$ 1,600,000
7.1	1	\$ 800,000
7.2	1	\$ 800,000
Grand Total	109	\$ 115,118,470

Table 1 Summary all IP-5 components

Row Labels	Count of Approved Projects	Sum of Approved Budget
Hudson	56	\$ 58,031,000
Akulivik	5	\$ 7,420,000
Inukjuak	10	\$ 14,325,000
Ivujivik	3	\$ 3,370,000
Kuujjuaraapik	4	\$ 10,290,000
Puvirnituq	14	\$ 9,951,000
Salluit	13	\$ 10,250,000
Umiujaq	7	\$ 2,425,000
N/A	2	\$ 1,600,000
Kativik Region	2	\$ 1,600,000
Ungava	51	\$ 55,487,470
Aupaluk	8	\$ 17,895,000
Kangihsualujuaq	8	\$ 4,380,000
Kangihsujuaq	8	\$ 7,230,000
Kangirsuk	6	\$ 11,255,000
Kuujuaq	12	\$ 6,997,470
Quaqtaq	6	\$ 5,760,000
Tasiujaq	3	\$ 1,970,000
Grand Total	109	\$ 115,118,470

Table 2 Distribution of approved projects and budgets by NV

APPENDIX 2 – STAFF LIST AND CONTACT INFORMATION

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
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Project Managers

Alfred Tsui	atsui@krg.ca extension 2354	Water and wastewater infrastructure- Ungava Coast • Water Plant and sewage lagoon maintenance, construction & renovation and quality management
Iheoma Nkwoji	inkwoji@krg.ca extension 2380	Water and wastewater infrastructure- Hudson Coast • Water Plant and sewage lagoon maintenance, construction & renovation and quality management
Ahmed ElMallah	aelmallah@krg.ca extension 2358	Building Infrastructure Projects
Chiagozie Victor Oraeki	vochiagozie@krg.ca extension 2419	
Christian Dostie	cdostie@krg.ca	Road/paving projects and Rolling Stock
Amar Djedid	adjedid@krg.ca extension 2430	Civil projects (roads, bridges, drainage, paving) - Hudson
Vacant, three (4) positions		Project Managers

Project and Program Controls

Eduardo Olguin Diaz	eolguind@krg.ca extension 2259	Project and Program Controller
Vacant, one (1) position		Project and Program Controller

Technical Assistance Program

Alfred Nikiema**		Coordinator
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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	ebaas@krg.ca Extension 2377	Assistance and on-the-job training to municipal operators Water Plant Instructor / Team Leader - Kuujuaq
François Corbeil *		
Frank Stevens	fstevens@krg.ca	Rotation – Quaataq, Kangiqsujuaq, Salluit and Ivujivik
Vacant	One instructor position	Rotation – Akulivik, Puvirnituq, Inukjuak, Umiujaq and Kuujuaapik
Patrick Desteredjian	Pdesteredjian@krg.ca	Rotation – Kangiqsualujuaq, 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	rjones@krg.ca extension 2391	Administrative Technician
Kuujuuaq Maintenance Crew		
Ankas Mukubu	amukubu@krg.ca Extension 2375	Coordinator
David Paris	dparis@krg.ca	Building maintenance technician
John Chocholacek	jchocholacek@krg.ca	Building maintenance technician
Maxime Dupont	mdupont@krg.ca	Building maintenance technician – electrician
Yvan Morin**	ymorin@krg.ca	Building maintenance technician - plumber
Vacant – 3 positions		Building maintenance technicians

Kuujuuaq Operations Crew

Coordinator***		Vacant
Adamie Johannes	ajohannes@krg.ca	Storekeeper
Alexandre Gagne	agagne@krg.ca	Receiving clerk
Dave Parsons	dparsons@krg.ca	Vehicle Fleet technician
Johnny Kudluk	jkudluk@krg.ca	Labourer
Noah Angnatuk	nangnatuk@krg.ca	Labourer
Robert Ekomiak	rekomiak@krg.ca	Storekeeper
Sammy Munick*	smunick@krg.ca	Labourer
Vacant		1 Labourer

Nunavik Maintenance Crew

André Cornellier	acornellier@krg.ca	Coordinator
Assistant coordinator***	Vacant	
Alain Turcotte	aturcotte@krg.ca	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
Denis Lafreniere	dlafreniere@krg.ca	
Eric Chamberland	echamberland@krg.ca	
John Coady	jcoady@krg.ca	
Philippe Genereux-Molaison **	pgmolaison@krg.ca	
Rodney Vezina	rvezina@krg.ca	
Tyler Welsh	twelsh@krg.ca	
Vacant – 2 positions		

CCQ Crew

Miguel Simard	msimard@krg.ca ext 2378	Coordinator
Olivier Simard	osimard@krg.ca	
Fernand Lebreux	flebreux@krg.ca	
Maxime Mireault**	mmireault@krg.ca	
Martin Beauvais**	mbeauvais@krg.ca	
Reid Renouf	rrenouf@krg.ca	
Yves Lapointe	ylapointe@krg.ca	
Danny Fredette		
Vacant – 1 positions		

*: Temporarily out of office

** : New team member

***: New Position