

Assol Kubeisinova Technical Advisor Nunavut Water Board

October 3rd, 2020

Re: Licence No: 3AM-ARV1016, Type "A"; Hamlet of Arviat; 2019 Annual Report Review

Dear Assol Kubeisinova,

Thank you for your review of the 2019 Annual Report for 3AM-ARV1016. Please see the below table with response and action items to be undertaken by the Hamlet and CGS. All documents relating to the new water treatment plant have been included with the submission. As-built drawings have not been received from the Contractor, but they will also be shared once received.

No ·	Intervener Recommendation / Concern	Deadline to Respond by and Provide Outstanding Information	Response by CGS
Crox	 vn-Indigenous Relations and Northo		
1	Water Licence No: 3AM-ARV1016 expired in 2016. The Licensee to make all necessary efforts to renew it as early as possible.	The Board notes that GN-CGS informed the NWB of its plans to submit an application to renew and amend the Licence in the	N/A
2	Based on information provided in Appendix E, there were four sets of monitoring data. It seems that monitoring data for September 20, 2019 were not included in Appendix A. In addition, the result of fecal coliforms on July 7, 2019 was >24,200 (104 CFU/100 mL) in Appendix A, but at 24,200 (104 CFU/100 mL) in Appendix E. Clarify the discrepancies in Appendix E.	fall of 2020. October 5, 2020	Appendix A corrected in resubmission. In appendix E the table is used to calculate averages, minimums, and maximums. Therefore, the greater than signs cannot be used. If in the future averages/min/max are not required, we can make the adjustment in the Appendix E data to show symbols.
3	Include a map of the location of the monitoring stations.	Subsequent annual reports	Noted
Envi	ronment and Climate Change Cana	da (ECCC)	



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1	Document the visual	Subsequent annual reports	Noted
	observations on algal presence/effluent colour during		
	effluent sampling. Include		
	concentration units for oil and		
	grease measurements in future		
	annual reports.		
2	Describe what "ARV-2" refers	October 5, 2020	ARV-2 refers to ARV-2a which is
	to in the Report. Clarify whether both stations ARV-2a and ARV-		the runoff point from the solid waste site.
	2b were monitored in 2019 and,		site.
	if not, why. Provide any		ARV-2b was to be used when the
	available 2019 monitoring		new Solid Waste site was
	results for station ARV-2b.		commissioned, this was never done,
			that is why it is not sampled.
3	Include in future annual reports:	Subsequent annual reports	Noted.
	☐ Highlighted and/or bolded font on summary tables to		
	indicate any water licence		
	exceedances; and		
	☐ Discussion of monitoring		
	results, particularly regarding		
	any exceedances, any potential		
	or known causes, and any		
	response actions taken.		
4	List any follow-up actions taken	Subsequent annual reports	Noted.
	for any spills/ unauthorized		
	discharges.		N . 1
5	Provide a figure or map	Subsequent annual reports	Noted.
	indicating the locations of all monitoring stations.	(echoing CIRNA's comment #3)	
6	Provide a discussion of the	October 5, 2020	New, upgraded lagoon and solid
	elevated concentrations of		waste sites are in planning phase. All
	ammonia and copper associated		sampling data has been provided to
	with the sewage lagoon and		the consultant, as well as the NWB
	solid waste facility. This should		parameters, to ensure the newly
	include a discussion of the level		design sites adhere to guidelines for
	of treatment that is achieved by the lagoon and wetland area, and		the design life of the infrastructure.
	how this can be optimized.		
Nuna	avut Water Board (NWB)	<u> </u>	
1	The NWB notes that the	Subsequent annual reports	This has been updated in recent
	Licensee consistently withdraws	•	application for licence renewal and
	water well in excess of the		amendment.



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	amount permitted by the		
	Licence.		
2	The NWB notes that the Licensee consistently exceeds the Effluent limits set for ARV- 4. The Board reminds the Hamlet to adhere to the Effluent quality limits as set out by the Licence. The Licensee should provide an explanation of exceedances and discussion on actions necessary to adhere fully to the Effluent quality limits.	October 5, 2020	New, upgraded lagoon and solid waste sites are in planning phase. All sampling data has been provided to the consultant, as well as the NWB parameters, to ensure the newly design sites adhere to guidelines for the design life of the infrastructure.
3	The Board does not have a record of receiving the 2016 Annual Report. Please submit the outstanding information or an explanation.	October 5, 2020	Submitted with this resubmission.
4	The Board does not have a record of receiving the documentation as required by Part C, Item 4 of the Licence: submit to the Board for approval in writing by December 31, 2010, as-built drawings stamped and signed by an Engineer confirming compliance with the [Fisheries and Oceans Canada] guideline "Freshwater Intake End of Pipe Fish Screen Guideline". The drawings shall include information regarding the operating capacity of the pump used and the intake screen size.	October 5, 2020	To be provided by Oct 30, 2020.
5	The Board does not have a record of receiving the documentation as required by Part D, Item 3 of the Licence: at least three (3) months prior to commissioning the New Solid Waste Disposal Facility and/or Hydrocarbon Impacted Soil Storage and Treatment Facility, submit to the Board,	October 5, 2020	Neither a new solid waste site or a land farm have been commissioned.



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	for approval in writing, a revised Solid Waste Management Facility Operations and Maintenance (O&M) Plan referred to in Part F, Item 2, to address the New Solid Waste Disposal Facility and/or Hydrocarbon Impacted Soil Storage and Treatment Facility.		
6	The Board does not have a record of receiving the documentation as required by Part D, Item 10 of the Licence: submit to the Board for approval in writing, at least sixty (60) days prior to the commissioning of a Hydrocarbon Impacted Soil Storage and Treatment Facility, a Hydrocarbon Impacted Soil Storage and Treatment Facility Management Plan including proposed Effluent quality limits for Monitoring Program Station ARV-10.	October 5, 2020	No Land farm was ever commissioned.
7	The Board does not have a record of receiving the results of geotechnical inspections as required by Part D, Items 16 and 17 of the Licence.	October 5, 2020	Geotechnical studies have been done as part of the planning study for the upgraded facilities. This can be shared with the NWB when received by CGS by the consultant. Further geotechnical investigations will be planned for 2021.
8	The Board does not have a record of receiving the documentation as required by Part F, Items 1 and 2 of the Licence and outlined in the April 29, 2011 correspondence from the NWB: within sixty (60) days following Board approval of the Sewage Disposal Facility Report referred to in Part D, Item 5, submit to the Board, for approval in writing, a revision to the Plan entitled "Sewage"	October 5, 2020	To be included with the current submission.



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	Treatment Facility Operation	
	and Maintenance (O&M) Plan,	
	Hamlet of Arviat" May 2009,	
	revised May 2010	
	and	
	within sixty (60) days	
	following Board approval of the	
	Solid Waste Disposal Facility	
	Report referred to in Part D,	
	Item 14, submit to the Board, for	
	5	
	approval in writing, a revision	
	to the Plan entitled "Solid	
	Waste Management Facility	
	Operation and Maintenance	
	(O&M) Plan, Hamlet of Arviat"	
	January 2009, revised May	
	2010	
9	The Board does not have a	Neither a new solid waste site or a
	record of receiving	land farm have been commissioned.
	documentation as required by	
	Part F, Item 3 of the Licence:	
	at least three (3) months	
	prior to commissioning the New	
	Solid Waste Disposal Facility	
	and/or Hydrocarbon Impacted	
	Soil Storage and Treatment	
	Facility, submit to the Board,	
	for approval in writing, a	
	revised Solid Waste	
	Management Facility	
	Operations and Maintenance	
	(O&M) Plan referred to in Part	
	F, Item 2, to address the New	
	Solid Waste Disposal Facility	
	and/or Hydrocarbon Impacted	
	Soil Storage and Treatment	
	Facility.	
10	The Board does not have a	Neither a new solid waste site or a
	record of receiving	land farm have been commissioned.
	documentation as required by	
	Part H, Item 16 of the Licence:	
	at least sixty (60) days prior to	
	commissioning the New Solid	
	Waste Disposal Facility and/or	
	Hydrocarbon Impacted Soil	
	Storage and Treatment Facility,	
	Storage and Treatment Facility,	



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submit to the Board, for	
approval in writing, a revision	
to the Environmental	
Monitoring Program and	
Quality Assurance/Quality	
Control (QA/QC) Plan, referred	
to in Part H, Item 15, to address	
the New Solid Waste Disposal	
Facility and/or Hydrocarbon	
Impacted Soil Storage and	
Treatment Facility.	

If there are any questions or concerns, please contact me at scollins@gov.nu.ca or (867)645-8176.

Sincerely,

Sarah Collins P. Eng

D. Collins

Municipal Planning Engineer

Community and Government Services

Government of Nunavut