YEAR BEING REPORTED: 2021

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. 3BM-COR1521 issued to the Hamlet of Coral Harbour.

Below are tabular summaries of all data generated under the "Monitoring Program".

I. Monthly and annual quantities of freshwater obtained by daily logs for all freshwater sources and estimated sewage waste discharged.

Table 1: Summary of water obtained from three the reservoir and

estimated sewage water discharge in m³

Month Reported	Quantity of Water Obtained from all sources (m ³)	Quantity of Sewage Waste Discharged (m³)	
January	3,048.520	Same	
February	2,905.832	Same	
March	3,550.135	Same	
April	3,196.777	Same	
May	3,327.260	Same	
June	3,001.668	Same	
July	3,610.214	Same	
August	3,824.988	Same	
September	3,645.351	Same	
October	3,734.116	Same	
November	3,729.156	Same	
December	3,727.203	Same	
ANNUAL TOTAL	41,301.220	Same	

Note: No meter exists to measure the sewage discharge volumes, therefore Sewage discharge volumes are considered equal to the water consumption volumes.

Table 2: Summary of water obtained from Post River and the Reservoir in m³

Month Reported	Estimated Water Transferred from Wolf Creek to Raw Water Cells (m³)
September	26,000
October	2,000
TOTAL	28,000

Pumping from Post River began on September 14, 2021 and ended on October 29, 2021. An estimated total of 28,000 m³ was pumped to the reservoir in 2021.

- II. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities:
 - None

- III. A list of unauthorized discharges and summary of follow-up action taken:
 - No unauthorized discharges for the infrastructure under licence 3BM-COR1521 occurred in 2021.
- IV. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:
 - None
- V. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned:
 - None
- VI. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and
 - None
- VII. updates or revisions to the approved Operation and Maintenance Plans:
 - An update to the Water Supply, Sewage Disposal Facility and Solid Waste Facility O&M Plans were submitted as part of the licence renewal and amendment process, along with the updated QA/QC Plan and Environmental Emergency Spill Contingency Plan.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

• On September 21, 2021, a Type A amendment and renewal application was submitted to the NWB to replace the existing Type B Licence 3BM-COR1521. The Technical Meeting and Pre-Hearing Conference was held on December 7 and 8, 2021. Following a written Public Hearing, the Hearing Record was closed on February 25, 2022.

Water Licensing Sampling Points:



COR-3: Effluent from Sewage Containment Cell

COR-4: Station within Wetland

COR-5: Discharge from Wetland

COR-6: Run-off from the Solid Waste Disposal Facility

COR-7: Run-off Below Waste metals area

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

• Coral Harbour's sewage lagoon was designed to be permeable and passively exfiltrate. The treatment is intended to be attributed to the wetland treatment area. This wetland has been assessed several times and demonstrated its ability to reduce contaminants, with a summary of the studies and findings included in the 2021 Sewage Disposal Facility OM Plan. Therefore the lagoon is operating as intended. CGS requested that NWB provide a justification as to why the effluent quality limits at COR-5 have been set to BOD/TSS 30/30 mg/L during the licence renewal technical meeting and has not received this information. These limits are inconsistent with all other municipal water licences in Nunavut and are set too low. Based on extensive research completed by CGS in partnership with the University of Dalhousie, achievable effluent parameter limits at the end of lagoon and wetland wastewater systems are cBOD/TSS of 100/120 mg/L.

Appendix A: COR-5 Effluent Quality Limits

Appendix B: Weekly Inspections at Monitoring Program Station

Appendix C: Certificate of Analysis

Appendix D: Hazardous Materials Spill Database, Coral Harbour 2021

Appendix E: Coral Harbour Sampling Summary

Appendix F: Coral Harbour CIRNAC Inspection Report

Appendix A

No COR-5 Effluent Quality Limit values were received by CGS

Appendix B

No Weekly Inspections at Monitoring Stations Document was received by CGS

Appendix C

No Certificate of Analysis were received by CGS

Appendix D

List of spills reported to the NT-NU Spill Report Line and are listed on the Hazardous

Materials Spills Database of Coral Harbour in 2021

Waterials Spins Database of Colai Harbour in 2021					
Spill	Occurrence Date	Location Description	Product Spilled	Quantity	
2021230	3- June- 2021	House 200, Coral Harbour NU X0C 0C0	Petroleum- fuel oil (jet A, diesel, turbo A, heat)	Unknown Quantity	
2021173	7- May- 2021	Coral Harbour - QEC Transient - Lot 272 Plan 3629 Heating Fuel Spill occurred at the QEC transient located at Lot 272 Plan 3629 (64°8'23" N 83°10'15" W)	Petroleum- fuel oil (jet A, diesel, turbo A, heat)	1000.00 L	

Appendix E

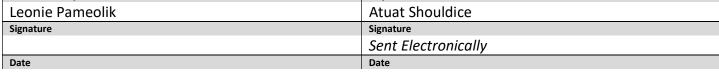
No Sampling Summary were received by CGS



WATER LICENCE INSPECTION FORM

☑ Original☑ Follow-Up Report

Licensee	icensee Licensee Representative					
		Coral Harbour Leonie Pameolik				
	Licence No. / Expiry Representative's Title					
	3BM-COR1521/ April 23 rd 2021 Senior Administrative Officer					
Date of Inspection Inspector September 16 th 2021 Atuat Shouldice						
				Atuat Shouldice		
Activiti	es Inspected					
Camp)	Drilling	Mining	☐ Construction	Reclamation	Fuel Storage
Roads	s/Hauling	Other: Sewage D	isposal Facility	Other: Water Treat	ment Facility	
CECTIO	N 4	M 6	1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			ation Dominad (a.)
BACKG On Sep	BACKGROUND On September 16 th , 2021, a regularly scheduled inspection was conducted of the Nunavut Water Board (NWB) water licence no. 3BM-COR1521 issued to the Hamlet of Coral Harbour. The inspection was conducted by RMO Atuat Shouldice of Crown					
ensure	compliance	with the applicable		referred as the "Inspect of the licence. Communi on.		
	mlet is curre 8 th 2021.	ntly working under	an expired licence. R	enewal application was su	ubmitted to the Nuna	vut water board on
1. 2. 3. 4. 5.	 The supporting documents required for renewal application were submitted June 28th 2021. Appropriate signage was observed at all monitoring stations, as required by PART B item 6. During the inspection, water was being resupplied from the Post River (photo 1). 					
J.	allotment o	of 40,000m ³ .	_	ual Report, was 39,973m ³		
6.	6. Sewage is trucked from the community and discharged into the Sewage Lagoon. Issues noted in the 2020 inspection report [2020-KIV01-AS 3BM-COR1621] were not addressed (photo 2) regarding the breach in the berm wall of the Lagoon. The 2020 annual report noted that effluent leaching out of the Lagoon did not met licensed criteria at monitoring station no. COR-5.					
7. 8.	Fencing at	the Landfill was rep	laced following the 2	020 inspection. (e.g.: chemicals, batteries	s wasta ail and props	ana) is an gaing (Phata
	3).					ine) is on going (Frioto
9.	rne Hamie	t has been working	on segregating bulky	items within the Landfill	(pnoto 4).	
SECTIO	N 2	Comments	Non-Co	ompliance with Act or Lic	ence A	ction Required
Failure	es to compl	y or concerns rela	ted to the condition	ns of Water Licence no	o. 3BM-COR1521;	
		-		grity of the Sewage Disp		
	— The Licensee is required to improve the berm wall directly adjacent to monitoring station no. COR-3 at the					
	Sewage Disposal Facility prior to the next inspection.					
PART D item 2: Failure to meet discharge criteria for monitoring station no. COR-5						
— The Licensee is required to improve the berm walls in the Sewage Disposal Facility to increase hold time of the						
		•	•	_	posar racincy to me	rease nota time or the
	<u> </u>		with the intention	· · · ·		
SECTIO	N 3	Comments	Non-Co	ompliance with Act or Lic	ence 🔀 A	ction Required
Actions	Required					
- The Li	censee shall	submit, no later the	an January 1 st , 2022, a	e letter to the Inspector s	ummarizing the impro	ovements to be made
to the Sewage Disposal Facility to improve effluent qualities at monitoring station no. COR-5. This letter will include but not be						
limited to; how the facility will be improved, when the work will be completed and how this information will be reported to the						
Inspector once completed.						
Failure	Failure to comply with the actions required, detailed above, will result in further enforcement actions from this office. Compliance					
with th	is matter is f	ully expected.				
Licensee	or Representat	ive		Inspector's Name		





November 16th 2021

CC:

Licensing Department, NWB.

Manager of Field Operations, CIRNAC

Megan Lusty, Municipal Works, CGS





Date:	Licence No.:	Camera/Model:		Inspector:	
September 16 th 2021	3BM-COR1521	Samsung S9		RMO Shouldice	
Photo #:			ocation:		
1		P	ost River, re-sup	ply	
Description:					
Post river resupply.					







Date: Licence No.: Camera/Model: Inspector:
September 16th 2021 3BM-COR1521 Samsung S9 RMO Shouldice

Photo #: Location:

3 Hazardous waste storage

Description:

Hazardous waste storage area.

		1			
Date:	Licence No.:	Camera/Mod	iei:	Inspector:	
September 16 th 2021	3BM-COR1521	Samsung S9		RMO Shouldice	
Photo #: Location:					
4			Bulk waste storage	e	
Description: Pulk waste cogregation of					
Bulk waste segregation area.					



