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Nunavut District Office  
P.O. Box 100  
Iqaluit, NU, X0A 0H0

November 29, 2002

Lucy Netser  
Senior Administrative Officers  
Municipality of Coral Harbour  
P.O. Box 30  
Coral Harbour, NU XOC 0CO

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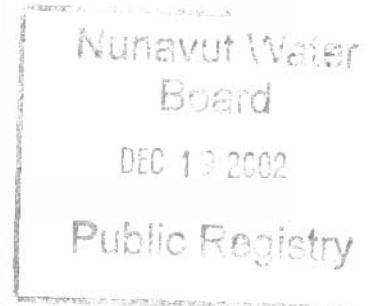
Tel: (867) 975-4289

Fax: (867) 979-6445

Your file - Votre référence

Our file - Notre référence

NWB3COR0207 (New)



**Re: September 4, 2002 Municipal Water Inspection - Report**

I would like to thank Ronnie Ningeongan for his time and assistance provided during the tour of the Municipality's water use and waste disposal facilities. Attached for your records is the Municipal Water Use Inspection Report along with the Certificate of Analysis Report pertaining to the September 4, 2002 inspection. Considering the limited resources at its disposal, the municipality appears to manage its facilities fairly well. However, there is one (1) issue that must be addressed that relates to the postings of Surveillance Network Program (SNP) signs.

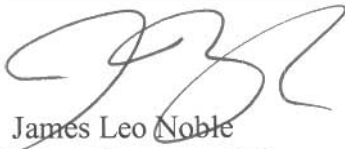
- 1. Water supply:** No concerns were noted regarding the water intake and supply facility. Further, the attached analytical results relating to samples taken in the vicinity of the intake station indicate that all tested parameters meet the *Guidelines for the Canadian Drinking Water Quality*. Please find attached analysis report. (Figure 1-2 Refers to Water Sources) New **SNP-COR-1** Refers to Raw Water Supply Prior to Treatment, and is monitoring point for the quantity being withdrawn from source, (not the quality).
- 2. Sewage disposal:** Standard truck drop off point. There are a series of small ponds that lead down through a flow path a good distance from the ocean. At the time of inspection two main ponds were quite dry, no flow down stream noticed. Samples were collected three (300) hundred feet from the drop off point. However, the attached analytical report reveals that it meets the municipal waste water guideline. (Figure 3-4 Refers to the Sewage Disposal) ("New **SNP-COR-3** Refers to Effluent Discharge from the Sewage Disposal Facilities")
- 3. Solid waste disposal:** During the time of inspection a lot of windblown garbage was observed. There is no fencing within this area which has a lot to do with this problem. I was advised that improvement to both bulky and combustible waste are

in the works. The plans is to clean up the bulky metals first and to transport to a new location. The capital plan for this relocation will take some time to complete.  
(Figure 5-6 Refers to Solid Waste Disposal) ( "New **SNP-COR-2** Refers to Runoff from the Solid Waste Disposal Facilities")

4. **Non-compliance of the Licence:** Municipality of Coral Harbour just received their Water licence that they require under both the *Nunavut Waters Act* and the *Nunavut Land Claims Agreement* for its municipal water use and waste disposal. The inspector did not observe Surveillance Network Program Station Numbers at any of the sites noted, therefore the inspector will assist in determining locations next year. As per the new water licence, "General Condition," **Part B: Item 5 Notes:** The Licensee Shall, within ninety (90) days after the first visit of Inspector, post the necessary signs, where possible, to identify the stations of the "Monitoring Program." All signage postings shall be in the official languages of Nunavut, and shall be located and maintained to the satisfaction of the Inspector

If you have any concerns or questions, please feel free to contact me @ the number and e-mail address provided

Sincerely,



James Leo Noble  
Water Resource Officer  
INAC - Nunavut District Office  
P.O. Box 100, Iqaluit, NU, X0A 0H0  
(867) 975-4289  
(867) 975-6445  
[noblej@inac.gc.ca](mailto:noblej@inac.gc.ca)

cc. Nunavut Water Board, Gjoa Haven, NU  
DIAND Water Resources Division, Iqaluit, NU  
CG&T, Iqaluit, NU (Doug Sitland)  
Kivalliq Health & Social Services, Rankin Inlet, NU  
EC, Environmental Protection, Yellowknife, NT (Anne Wilson)



Taiga Environmental Laboratory  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788  
Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Prepared For: Nunavut Regional Officer, Operational Indian Affairs and Northern Development Attn: James Lee Noble

Sample ID: Coral Harbour #1 *Potable water*

Taiga Sample ID: 222935

Client Project:

Sample Type: wastewater

Received Date: 10-Sep-02

Location: Nunavut

Sampling Date: 04-Sep-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Alkalinity	44.1	mg/L	0.3	30-Sep-02
Colour	< 5		5	14-Nov-02
Conductivity, Specific	125	µS/cm	0.3	30-Sep-02
pH	8.03	pH units	0.05	30-Sep-02
<u>Major Ions</u>				
Calcium	14.8	mg/L	0.05	20-Sep-02
Chloride	8.3	mg/L	0.2	29-Oct-02
Hardness as CaCO <sub>3</sub>	43.7	mg/L	0.17	20-Sep-02
Magnesium	1.63	mg/L	0.02	20-Sep-02
Potassium	1.31	mg/L	0.03	11-Sep-02
Silica, Reactive	0.49	mg/L	0.02	12-Sep-02
Sodium	6.32	mg/L	0.02	11-Sep-02
Sulphate	6	mg/L	3	02-Oct-02



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**- CERTIFICATE OF ANALYSIS -**

**Prepared For:** Nunavut Regional Officer, Operati Indian Affairs and Northern D **Attn:** James Lee Noble

**Sample ID:** Coral Harbour #2 *Potable Water*

**Taiga Sample ID:** 222936

**Client Project:**

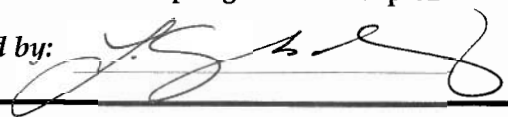
**Sample Type:** wastewater

**Received Date:** 10-Sep-02

**Location:** Nunavut

**Sampling Date:** 04-Sep-02

**Report Status:** Final

**Approved by:** 

Test Parameter	Result	Units	Detection Limit	Analysis Date
<b>Physicals</b>				
Solids, Total Dissolved	54	mg/L	10	15-Oct-02
Solids, Total Suspended	7	mg/L	3	15-Oct-02
<u>Turbidity</u>	<u>0.8</u>	NTU	0.1	17-Sep-02
<b>Nutrients</b>				
<u>Ammonia as N</u>	<u>0.007</u>	mg/L	0.005	19-Sep-02
<u>Nitrate+Nitrite as N</u>	<u>0.033</u>	mg/L	0.008	09-Oct-02
Organic Carbon, Dissolved	1.5	mg/L	0.5	07-Oct-02
Organic Carbon, Total	1.6	mg/L	0.5	07-Oct-02
Ortho-Phosphate as P	0.002	mg/L	0.002	23-Sep-02
Phosphorous, Dissolved	0.050	mg/L	0.004	20-Sep-02
Phosphorous, Total	0.055	mg/L	0.004	25-Sep-02



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- CERTIFICATE OF ANALYSIS -

Prepared For: Nunavut Regional Officer, Operati Indian Affairs and Northern D *Attn:* James Lee Noble

Sample ID: Coral Harbour #5 *Potable Water*

Taiga Sample ID: 222937

Client Project:

Sample Type: wastewater

Received Date: 10-Sep-02

Location: Nunavut

Sampling Date: 04-Sep-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Alkalinity	28.6	mg/L	0.3	30-Sep-02
<u>Colour</u>	<u>&lt; 5</u>		5	14-Nov-02
Conductivity, Specific	25500	μS/cm	0.3	30-Sep-02
<u>pH</u>	<u>7.56</u>	pH units	0.05	30-Sep-02
<u>Major Ions</u>				
Calcium	11.2	mg/L	0.05	20-Sep-02
Chloride	8.3	mg/L	0.2	23-Oct-02
Hardness as CaCO <sub>3</sub>	33.6	mg/L	0.17	20-Sep-02
Magnesium	1.37	mg/L	0.02	20-Sep-02
Potassium	0.42	mg/L	0.03	11-Sep-02
Silica, Reactive	0.60	mg/L	0.02	12-Sep-02
Sodium	3.21	mg/L	0.02	11-Sep-02
Sulphate	4	mg/L	3	02-Oct-02



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## - CERTIFICATE OF ANALYSIS -

Prepared For: Nunavut Regional Officer, Operati Indian Affairs and Northern D *Attn:* James Lee Noble

Sample ID: Coral Harbour #3 *Sewage*

Taiga Sample ID: 222938

Client Project:

Sample Type: wastewater

Received Date: 10-Sep-02

Location: Nunavut

Sampling Date: 04-Sep-02

Report Status: Final

Approved by: *[Signature]*

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Alkalinity	209	mg/L	0.3	30-Sep-02
Colour	500		5	14-Nov-02
Conductivity, Specific	814	µS/cm	0.3	30-Sep-02
pH	8.09	pH units	0.05	30-Sep-02
<u>Major Ions</u>				
Calcium	31.1	mg/L	0.05	20-Sep-02
Chloride	95.6	mg/L	0.2	29-Oct-02
Hardness as CaCO <sub>3</sub>	89.4	mg/L	0.17	20-Sep-02
Magnesium	2.87	mg/L	0.02	20-Sep-02
Potassium	23.4	mg/L	0.03	11-Sep-02
Silica, Reactive	16.0	mg/L	0.02	12-Sep-02
Sodium	133	mg/L	0.02	11-Sep-02
Sulphate	31	mg/L	3	02-Oct-02



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## - CERTIFICATE OF ANALYSIS -

Prepared For: Nunavut Regional Officer, Operati Indian Affairs and Northern D Attn: James Lee Noble

Sample ID: Coral Harbour #4

*Sewage*

Taiga Sample ID: 222939

Client Project:

Sample Type: wastewater

Received Date: 10-Sep-02

Location: Nunavut

Sampling Date: 04-Sep-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date
<b>Physicals</b>				
Solids, Total Dissolved	777	mg/L	10	15-Oct-02
<u>Solids, Total Suspended</u>	<u>115</u>	mg/L	3	15-Oct-02
<u>Turbidity</u>	<u>83.0</u>	NTU	0.1	17-Sep-02
<b>Nutrients</b>				
<u>Ammonia as N</u>	<u>0.152</u>	mg/L	0.005	19-Sep-02
<u>Nitrate+Nitrite as N</u>	<u>0.064</u>	mg/L	0.008	16-Oct-02
Organic Carbon, Dissolved	120	mg/L	0.5	07-Oct-02
Organic Carbon, Total	180	mg/L	0.5	07-Oct-02
Ortho-Phosphate as P	0.070	mg/L	0.002	23-Sep-02
Phosphorous, Dissolved	0.483	mg/L	0.004	20-Sep-02
Phosphorous, Total	4.93	mg/L	0.004	25-Sep-02



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- CERTIFICATE OF ANALYSIS -

Prepared For: Nunavut Regional Officer, Operational Indian Affairs and Northern Development Attn: James Lee Noble

Sample ID: Coral Harbour #6

Potable Water

Taiga Sample ID: 222940

Client Project:

Sample Type: wastewater

Received Date: 10-Sep-02

Location: Nunavut

Sampling Date: 04-Sep-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Solids, Total Dissolved	31	mg/L	10	15-Oct-02
<u>Solids, Total Suspended</u>	<u>&lt; 3</u>	mg/L	3	15-Oct-02
<u>Turbidity</u>	<u>0.5</u>	NTU	0.1	17-Sep-02
<u>Nutrients</u>				
<u>Ammonia as N</u>	<u>&lt; 0.005</u>	mg/L	0.005	19-Sep-02
<u>Nitrate+Nitrite as N</u>	<u>&lt; 0.008</u>	mg/L	0.008	09-Oct-02
Organic Carbon, Dissolved	2.4	mg/L	0.5	07-Oct-02
Organic Carbon, Total	12	mg/L	0.5	07-Oct-02
Ortho-Phosphate as P	< 0.002	mg/L	0.002	23-Sep-02
Phosphorous, Dissolved	0.055	mg/L	0.004	20-Sep-02
Phosphorous, Total	0.063	mg/L	0.004	25-Sep-02





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September 4, 2002

Our file - Notre référence

***Community Site Inspections / Waypoint Information***

Coral Harbour 1	Community Tank Farm	N64 07 58.9 W83 10 11.7
Coral Harbour 2	Truck Fill Station	N64 08 35.9 W83 10 20.9
Coral Harbour 3	Sample One, Reservoir	N64 08 37.6 W83 10 20.2
SNP-COR-1	Sample Two, Main Water Source	N64 08 37.6 W83 11 57.6
SNP-COR-3	Sewage Disposal Area	N64 09 48.2 W83 11 45.9
Coral Harbour 6	Sample Three Sewage Runoff	N64 09 45.4 W83 11 27.7
SNP-COR-2	Waste Disposal (Main Dump)	N64 09 36.7 W83 11 36.0
Coral Harbour 8	Solid Waste Disposal (Metals)	N64 09 31.6 W83 11 28.9

James Leo Noble  
Water Resource Officer  
INAC, Nunavut District  
Iqaluit, Nu.



(Figure 1)

- Coral Harbour, Water Supply Reservoir, Site: N64 08 37.6 W83 10 20.2



(Figure 2 SNP-COR-1)

- Coral Harbour, Main Water Source (River) Site: N64 08 37.6 W83 11 57.6



(Figure 3 SNP-COR-3)

- Coral Harbour, Sewage Disposal (Lagoon) Site: N64 09 48.2 W83 11 45.9



(Figure 4 SNP-COR-3)

- Coral Harbour, Sewage Runoff (Field) Site: N64 09 45.4 W83 11 27.7





(Figure 5 SNP-COR-2)

- Coral Harbour, Solid Waste Disposal (Main Dump) Site: N64 09 36.7 W83 11 36.0



(Figure 6 SNP-COR-2)

- Coral Harbour, Solid Waste Disposal (New Metal Dump) Site: N64 09 31.6 W83 11 28.9



(Figure 7)

- Coral Harbour, Community Tank Farm, Site: N64 07 58.9 W76 32 16.9



(Figure 8)

- Coral Harbour, Windblown Garbage, Mixture of Metal & Burnables



MUNICIPAL WATER USE INSPECTION REPORT

Date: September 4, 2002    Licensee Rep. (Name/Title): Ronnie Ningeongan, Hamlet (Lands Officer)

Licensee: Municipality of Coral Harbour    Licence No.: Unlicensed at the time of inspection.  
New NWB3COR0207

WATER SUPPLY

Source(s): Post River / twin reservoirs    Quantity used: 1789364

Owner:/Operator: GN / Hamlet

Indicate: A - Acceptable   U - Unacceptable   NA - Not Applicable   NI - Not Inspected

Intake Facilities: A    Storage Structure: A    Treatment Systems: A    Chemical Storage: A

Flow Meas. Device: A    Conveyance Lines: A    Pumping Stations: A

Comments: During the time of inspection, the community was in the process of refilling the reservoirs, minor problems with the water pump located at the river (resolved). Very well kept station along with the reservoir, clean and in good operational order, no further details to note.

WASTE DISPOSAL

Sewage:    Sewage Treatment System (Prim./Sec/Ter.): Secondary, discharge overland to ocean

Natural Water Body: X    Continuous Discharge (land or water): X

Seasonal Discharge: X    Wetlands Treatment: X    Trench:

Solid Waste:    Owner/Operator: GN / Hamlet

Landfill:    Burn & Landfill: x    Other:

Indicate: A - Acceptable   U - Unacceptable   NA - Not Applicable   NI - Not Inspected

Discharge Quality: A    Decant Structure: NA    Erosion: A

Discharge Meas. Device: NA    Dyke Inspection: NA    Seepages: A

Dams, Dykes: NA    Freeboard: NA    Spills: None Reported

Construction: NA    O&M Plan: A, Waste management    A&R Plan: NA

Periods of Discharge: NA    Effluent Discharge Rate: Not measured

Comments: As noted in previous reports, the main structure of the lagoon consist of series of small water bodies within the sewage discharge area, which then appears to travel towards to the ocean. The inspector noted a lot wind blown garbage within the sewage disposal area, which results from no fencing at the waste disposal site. Something that could be look into in the near future. As for the waste disposal site (bulky metals), it was brought to the attention of the inspector that a new site had been developed, for the bulky metals. A capital plan is now in place to remove all old bulky metals waste from the existing site to the new one, which should be complete within the 2 years, as to what the inspector was informed.

FUEL STORAGE

Owner/Operator: Community Co-op / GN

Indicate: A - Acceptable   U - Unacceptable   NA - Not Applicable   NI - Not Inspected

Berms & Liners: A    Water within Berms: A    Evidence of Leaks: NA

Drainage Pipes: A    Pump Station & Catchment Berm: NI

Pipeline Condition: A    Not Applicable:    Condition of Tanks: NI

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected    Hamlet: None

INAC: Post River, Reservoir, Sewage Lagoon

Signs Posted    SNP: None    Warning: None

Records & Reporting: None

Geotechnical Inspection: None

Non-Compliance of Act or Licence: At this time, community of Coral Harbour is still unlicensed, not sure of what the status is with the situation

James Leo Noble

Inspector's Name

Inspector's Signature