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December 22, 2003

Senior Administrative Officer
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**Nunavut Water
Board**

FEB 03 2004

Public Registry

Your file - Votre reference

Our file - Notre référence
NWB3COR0207

Re: Water Licence Inspection

The following report deals with the Water Licence Inspection conducted on August 21, 2003 in the Hamlet of Coral Harbour. In the course of the Inspection a number of problems were identified with respect to sewage treatment, record keeping of water use, segregation of materials and hazardous waste handling at the Waste Disposal Facility and documentation of operation and maintenance for the Sewage and Solid Waste Disposal Facilities. Since the Inspection was performed a number of problems with the Sewage Treatment Facility have been addressed. Hopefully the changes implemented will be successful and the Hamlet can move forward and address other issues of non-compliance with their Water Licence.

Freshwater Reservoir (figure 1)

The Hamlets freshwater is obtained from the Post River and transferred to the containment reservoir in the community. The Hamlet has some serious problems with record keeping and monitoring at the Hamlet's reservoir. Responsibility for measuring the chlorine levels in the water supply has apparently not been delegated and testing and recording of chlorine concentrations has not been performed. The Hamlet's reservoir is only partially fenced and the pumphouse door is not locked. The fence around the reservoir needs to be repaired, chlorination of the water supply needs to be monitored and records of water volumes pumped and chlorine concentrations must be recorded daily (figure 2).

Solid Waste Disposal (Burn and Bury Landfill)

The landfill facility is adjacent to the old sewage lagoon. A pond at the toe of the landfill appears to contain both leachate from the lagoon and sewage effluent (figure 3). The mixture may be quite toxic. Regardless of the sample results, the leachate from the

lagoon and the sewage effluent should not be allowed to mix. The landfill is not well covered or compacted, neither is it fenced or identified. Waste has been deposited in the water at the toe of the landfill and this should be prevented. A complete lack of segregation of materials in the landfill would likely make it unsafe to burn waste. No measures are in place to deal with hazardous materials such as lead acid batteries. Please refer to the Nunavut Hazardous Waste Management Manual 2003 for further information on proper storage and handling of hazardous materials. Bryan Purdy with Community Government and Transportation informed me that expansion of the current landfill facility will begin in 2004 and the planned expansion, combined with modifications to the sewage lagoon completed in 2003 should eliminate problems with leachate from the landfill mixing with sewage effluent.

Samples taken at the toe of the landfill where the leachate flows into an adjacent pond exceeded Licenced and the *Summary of Canadian Guidelines for the Protection of Aquatic Life 2003* in iron concentration (2561 ug/L >> 300 ug/L).

Waste Oil

Waste oil handling and storage in the Hamlet of Coral Harbour is unacceptable. Waste oil barrels are strewn around behind a municipal warehouse. A number of the barrels are leaking and many are tipped over on large coarse rock. Nothing is in place to contain current or future spills. The drums appear to have been dropped off in the general area with little concern for the drums condition or potential for leakage. The "storage site" is also quite close to the freshwater source for the community (~100 m). Although the reservoir is slightly uphill from the waste oil storage, downhill from the site is a pond that could very easily become contaminated by the leaking waste oil drums. The site should be bermed and lined to prevent seepage of waste oil and the drums should be placed upright on pallets to help prevent barrels from rusting out and the site should be marked/ cordoned off to prevent snow coverage resulting in accidental collisions between snow removal equipment and the waste drums. As mentioned in past inspections the community should look into purchasing a waste oil burner as an option for disposal of waste oil and fuel and a potential source of energy for the community. Whether or not the community decides to purchase a waste oil burner the waste oil storage procedures must be improved and the site either improved or a better site chosen.

Sewage Lagoon

Modifications to the sewage lagoon had just begun when the Water Licence inspection was performed in the Hamlet of Coral Harbour. Samples of the lagoon effluent exceeded the Licenced and Canadian Guidelines with respect to iron concentration (937 ug/L > 300 ug/L) The samples also had a very high Chemical Oxygen Demand which is an indication that the Biological Oxygen Demand would also exceed the Licenced Guidelines (360 mg/L > 120 mg/L). The lagoon discharges constantly through a ditch and then flows overland towards a series of ponds and eventually the ocean. Treatment may be effective by the time the effluent reaches the ocean it is probably

well treated however the current effluent exceeds Licenced and Canadian Guidelines. Problems had been identified by elders in the community with caribou eating sewage from the lagoon between January and May. Elders had also noticed a strong sewage smell in the community in the spring. According to Bryan Purdy, with CG&T, this may have resulted from sewage discharged to the lagoon flowing over the ice towards the community. A berm and a fence are to be put up around the lagoon to keep caribou out and the seepage path of the lagoon effluent has been altered 90° in the hopes that this will eliminate the strong sewage smell in town in the spring. I would like to commend CG&T for keeping lines of communication open with the community and taking steps to address the communities concerns. Hopefully the solutions implemented by CG&T will eliminate the problems with the sewage lagoon.

Non-Compliance of the Act or Licence

The Hamlet of Coral Harbour was required in the Water Licence to provide an Operation and Maintenance Manual (O&M) for the Sewage and Solid Waste Disposal Facilities before November 1, 2003. As of yet no O&M Manual has been received. The Hamlet is also required to sample monthly at Monitoring Stations COR-2 and COR-3 during the Months of May to August inclusive. To my knowledge this sampling has not been performed. Records of monthly and annual water use have been kept according to Bryan Purdy. These records along with all activities pertaining to the Water Licence need to be submitted to the Nunavut Water Board no later than March 31, 2004. Please refer to the Water Licence for further information on the information required in the Annual Report. I look forward to assisting the Hamlet of Coral Harbour in meeting the requirements of the Water Licence. If you have any questions or concerns please contact me.

Sincerely,

Scott Stewart
Water Resource Officer
Field Operations
Nunavut District Office
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Figure 1. Hamlet of Coral Harbour freshwater reservoir.

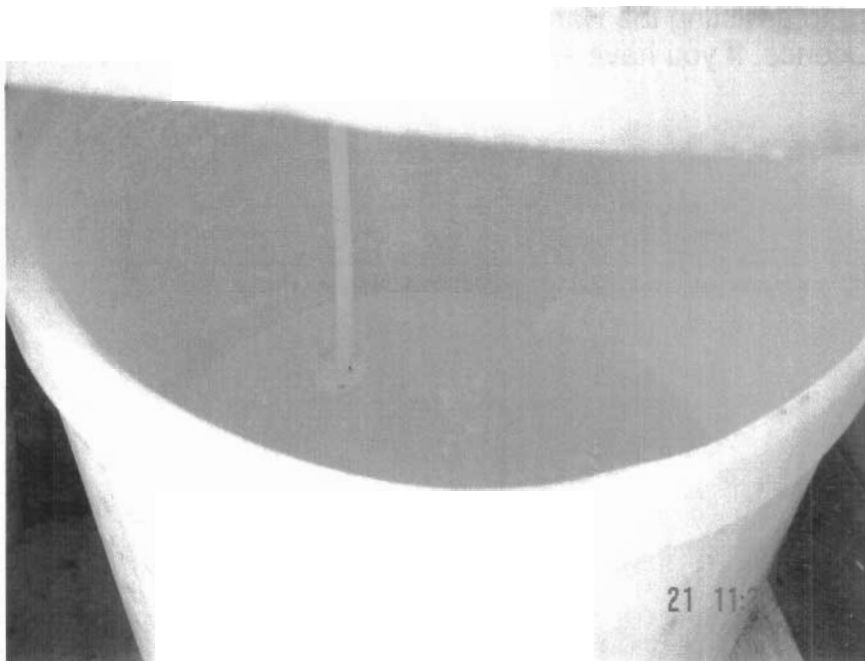


Figure 2. Sodium Hypochlorite vat in the Hamlet of Coral Harbour.

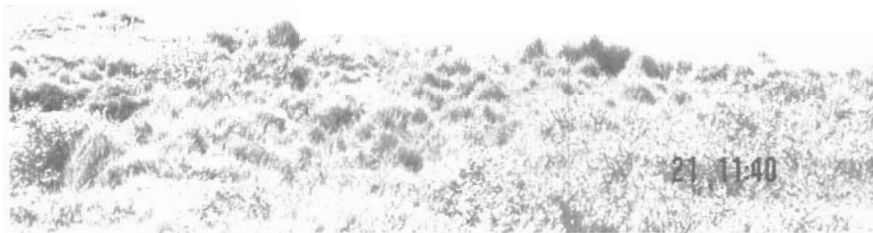


Figure 3. Ponding between the sewage lagoon and the solid waste disposal facility that may contain leachate from both the landfill and the sewage lagoon.



Figure 4. Unsegregated waste in the Hamlet of Coral Harbour solid waste disposal facility with leachate visible at the top of the picture .



Figure 5. Ponding at the toe of the Coral Harbour landfill.



Figure 6. Bulky metal waste in the Hamlet of Coral Harbour.



Figure 7. Waste oil drums improperly stored behind the municipal warehouse.



Figure 8. Leaky drum at the Hamlet of Coral Harbour waste oil storage facility.



Figure 9. Drainage ditch for Coral Harbour sewage effluent flowing from the lagoon and overland to the first pond.



Figure 10. Sample site for lagoon effluent in the Hamlet of Coral Harbour.



Figure 11. Waste drums of industrial origin located near freshwater in the Hamlet of Coral Harbour.



Indian and Northern
Affairs Canada

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et du Nord Canada

MUNICIPAL WATER USE INSPECTION REPORT

Date: August 21, 2003 Licensee Rep. (Name/Title):

Licensee: Hamlet of Coral Harbour

Licence No.:NWB3COR0207

WATER SUPPLY

Source(s): Post River

Quantity used: Unknown

Owner:/Operator: Municipality

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:NI

Conveyance Lines:A

Pumping Stations:NI

Comments: The Hamlet has serious problems with record keeping and monitoring at the Reservoir. The Reservoir is only partially fenced and the pumphouse door is not locked. The fence around the Reservoir needs to be repaired and chlorination of the water supply and water consumption needs to be monitored and recorded.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.):Primary

Natural Water Body:

Continuous Discharge (land or water):

Seasonal Discharge: Overland to Ocean

Wetlands Treatment: Nil

Trench:None

Comments: Modifications to the sewage lagoon had just begun when the Water Licence Inspection was performed. The lagoon discharges constantly through a ditch and then flows overland through a series of ponds to the ocean. Treatment needs very likely needs to be improved prior to entering the series of ponds. Sample results still identify the current treatment level.

Solid Waste: Owner/Operator:

Landfill:

Burn & Landfill: x

Other:

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

Discharge Quality: NA

Decant Structure: NA

Erosion:U

Discharge Meas. Device: NA

Dyke Inspection:U

Seepages:U

Dams, Dykes: NA

Freeboard:U

Spills:U

Construction:NA

O&M Plan:U

A&R Plan:NI

Periods of Discharge:NA

Effluent Discharge Rate:U

Comments: There is a complete lack of segregation of materials in the landfill and the waste is not well compacted or covered. Water ponding at the toe of the landfill creates the potential for sewage effluent and landfill leachate to mix freely. This should not be allowed to happen. Nothing is in place to separate hazardous materials from the general landfill waste.

FUEL STORAGE: Not Inspected

Waste Oil Storage

Owner/Operator: Hamlet of Coral Harbour

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

Berms & Liners:U

Water within Berms: NA

Evidence of Leaks: Waste oil visible on ground

Drainage Pipes:NA

Pump Station & Catchment Berm: NA

Pipeline Condition:NA

Not Applicable:

Condition of Tanks:

Waste oil storage and handling in the Hamlet of Coral Harbour is unacceptable with barrels strewn around, tipped over and many leaking. Nothing is in place to prevent or contain spills.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected Hamlet:None

INAC:Effluent below lagoon, ponding at metal dump and landfill,

Signs Posted SNP:None

Warning:None

Records & Reporting:Inadequate records at pumphouse.

Geotechnical Inspection:NI

Non-Compliance of Act or Licence:

Current sewage treatment appears to be unacceptable, modifications underway will hopefully improve the situation. Lab results will illustrate the level to which the sewage is treated before flowing to the ocean. As per the water licence the Hamlet must provide an Operation and Maintenance Manual for operating and maintaining waste disposal sites. The Hamlet must also maintain, with appropriate signage, a Surveillance Network Program (SNP) and develop a Quality Assurance/Quality Control Plan to ensure that samples taken as part of the SNP maintain a high quality. As of yet, the Hamlet of Coral Harbour has not met these requirements.

Scott Stewart

Inspector's Name

Peter Kusugak
Manager's Name

Scott Stewart

Inspector's Signature

Managers Signature



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232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	Colour	Physicals	Colour	5		5			
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total	4.1	mg/L	0.2		9/11/03	none
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N	0.008	mg/L	0.008		9/2/03	none
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	Conductivity, Specific	Physicals	Conductivity, Specific	285	µS/cm	0.3		8/25/03	none
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	pH	Physicals	pH	7.50	pH units	0.05		8/25/03	none
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	Solids, Total Suspended	Physicals	Solids, Total Suspended	3	mg/L	3		8/21/03	GF/C Filt.
232802	Freshwater Lk. Wha-1	freshwater	Hamlet of Whale Cove	8/14/03	8/20/03	Turbidity	Physicals	Turbidity	1.9	NTU	0.1		9/8/03	none
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Calcium	Major Ions	Calcium	17.3	mg/L	0.05		9/3/03	none

Prior visitors may wish to visit the following forms directly (Adobe Acrobat Reader required):

- Field Sheet
- Bottle Order Form

232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Magnesium	Major Ions	Magnesium	1.63	mg/L	0.02	9/3/03	none	
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Potassium	Major Ions	Potassium	1.01	mg/L	0.03	9/5/03	none	
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Sodium	Major Ions	Sodium	4.22	mg/L	0.02	9/5/03	none	
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Sulphate	Major Ions	Sulphate	5	mg/L	3	8/29/03	none	
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Aluminum	<	30	µg/L	30	9/20/03	Microwav
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Antimony	0.3	µg/L	0.1	9/20/03	Microwav	
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Arsenic, Total in water	Metals, Total	Arsenic	<	1	µg/L	1	8/26/03	Microwav
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Barium	8.1	µg/L	0.1	9/20/03	Microwav	
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Beryllium	<	0.1	µg/L	0.1	9/20/03	Microwav
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Cadmium	<	0.1	µg/L	0.1	9/20/03	Microwav

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232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Titanium	1.3	µg/L	0.1	9/20/03	Microwave EPA200
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Uranium	0.3	µg/L	0.1	9/20/03	Microwave EPA200
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Vanadium	0.9	µg/L	0.1	9/20/03	Microwave EPA200
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Zinc	< 10	µg/L	10	9/20/03	Microwave EPA200



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232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Iron, Total	<	30	µg/L	30	8/28/03	Microwave SM3111
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	<	0.1	µg/L	0.1	9/20/03	Microwave EPA200
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Lead	<	0.1	µg/L	0.1	9/20/03	Microwave EPA200
232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Lithium	<	0.5	µg/L	0.3	9/20/03	Microwave EPA200

232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Manganese	0.8	µg/L	0.1	9/20/03	Microwave	EPA200	
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01	10/2/03	none	SM3112
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Molybdenum	0.3	µg/L	0.1	9/20/03	Microwave	EPA200	
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Nickel	0.2	µg/L	0.1	9/20/03	Microwave	EPA200	
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Rubidium	2.6	µg/L	0.1	9/20/03	Microwave	EPA200	
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Selenium	<	1	µg/L	1	9/20/03	Microwave	EPA200
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Silver	<	0.1	µg/L	0.1	9/20/03	Microwave	EPA200
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Strontium	23.7	µg/L	0.1	9/20/03	Microwave	EPA200	
232954	Freshwater COR-1	freshwater Coral Harbour	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Thallium	<	0.1	µg/L	0.1	9/20/03	Microwave	EPA200



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	Taiga Sample ID	Client Sample ID	Sample Type	Sampling Location	Sample Collect Date	Sample Received Date	Test Group Name	Lab Section	Parameter Name	Result Flag	Reported Result	Units	Calc MDL	Sample Result Qualifier	Analysis Result Qualifier	Analysis Date	Prep Method
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Ammonia	Nutrients	Ammonia as N	<	0.005	mg/L	0.005			9/16/03	none
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N		0.047	mg/L	0.008			9/4/03	none
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total		1.7	mg/L	0.2			9/15/03	none
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Colour	Physicals	Colour	<	5		5			9/8/03	none
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Conductivity, Specific	Physicals	Conductivity, Specific		125	µS/cm	0.3			8/28/03	none
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	pH	Physicals	pH		7.92	pH units	0.05			8/28/03	none
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Solids, Total Suspended	Physicals	Solids, Total Suspended	<	3	mg/L	3			8/25/03	GF/C Filter
	232954	Freshwater COR-1	freshwater	Hamlet of Coral Harbour	8/21/03	8/25/03	Turbidity	Physicals	Turbidity		1.9	NTU	0.1			9/8/03	none
	232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Calcium	Major Ions	Calcium		236	mg/L	0.05			9/3/03	none
	232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Magnesium	Major Ions	Magnesium		39.0	mg/L	0.02			9/3/03	none

232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Potassium	Major Ions	Potassium	71.0	mg/L	0.03		9/5/03	none	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Sodium	Major Ions	Sodium	206	mg/L	0.02		9/5/03	none	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Sulphate	Major Ions	Sulphate	40	mg/L	3		8/29/03	none	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Aluminum	114	µg/L	30	1	9/20/03	Microwa	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Antimony	16.4	µg/L	0.1	1	9/20/03	Microwa	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Arsenic, Total in water	Metals, Total	Arsenic	6	µg/L	1	1	8/26/03	Microwa	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Barium	42.3	µg/L	0.1	1	9/20/03	Microwa	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Beryllium	<	0.1	µg/L	0.1	1	9/20/03	Microwa
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Cadmium	0.5	µg/L	0.1	1	9/20/03	Microwa	
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Cesium	0.1	µg/L	0.1	1	9/20/03	Microwa	

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232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Uranium	0.3	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Vanadium	0.5	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Zinc	366	µg/L	10	1	11/18/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Ammonia	Nutrients	Ammonia as N	50.6	mg/L	0.005		9/16/03	none	SM4500 NH3:G



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232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Iron	2561	µg/L	30	1	8/28/03	Microwave	SM3111
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Lead	7.9	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Copper	34.8	µg/L	0.2	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Cobalt	4.0	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Chromium	46.8	µg/L	0.3	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Manganese	578	µg/L	0.1	1	11/18/03	Microwave	EPA200

232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Mercury, Total	Metals, Total	Mercury	0.05	µg/L	0.01	1	10/2/03	none	SM3112
						Total Metals (24) by ICP-MS water	Metals, Total	Molybdenum	1.1	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Nickel	13.6	µg/L	0.1	1	9/20/03	Microwave	EPA200
						Total Metals (24) by ICP-MS water	Metals, Total	Rubidium	655	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Selenium	7	µg/L	1	1	9/20/03	Microwave	EPA200
						Total Metals (24) by ICP-MS water	Metals, Total	Silver	0.1	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Strontium	651	µg/L	0.1	1	11/18/03	Microwave	EPA200
						Total Metals (24) by ICP-MS water	Metals, Total	Thallium	< 0.1	µg/L	0.1	1	9/20/03	Microwave	EPA200
232955	Landfill seep COR-2	wastewater	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Titanium	6.1	µg/L	0.1	1	9/20/03	Microwave	EPA200

232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Aluminum	187	µg/L	30	11/18/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Antimony	0.6	µg/L	0.1	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Arsenic, Total in water	Metals, Total	Arsenic	2	µg/L	1	8/26/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Barium	4.5	µg/L	0.1	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Beryllium	< 0.1	µg/L	0.1	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Cadmium	< 0.1	µg/L	0.1	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Cesium	< 0.1	µg/L	0.1	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Chromium	2.1	µg/L	0.3	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Cobalt	0.8	µg/L	0.1	9/20/03	Microwave
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Copper	10.8	µg/L	0.2	9/20/03	Microwave



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232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Molybdenum	<	0.1	µg/L	0.1	9/20/03	Microwave EP
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Nickel	<	5.5	µg/L	0.1	9/20/03	Microwave EP
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Rubidium	<	23.0	µg/L	0.1	9/20/03	Microwave EP
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Selenium	<	1	µg/L	1	9/20/03	Microwave EP
232956	Sewage effluent COR-3	sewage	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Silver	<	0.1	µg/L	0.1	9/20/03	Microwave EP

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232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Strontium	62.9	µg/L	0.1		9/20/03	Microwave	EP
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Thallium	< 0.1	µg/L	0.1		9/20/03	Microwave	EP
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Titanium	1.2	µg/L	0.1		9/20/03	Microwave	EP
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Uranium	0.4	µg/L	0.1		9/20/03	Microwave	EP
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Vanadium	2.3	µg/L	0.1		9/20/03	Microwave	EP
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Zinc	16	µg/L	10		9/20/03	Microwave	EP
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Ammonia	Nutrients	Ammonia as N	19.6	mg/L	0.005		9/16/03	none	SV NH
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Chemical Oxygen Demand	Nutrients	Chemical Oxygen Demand	360	mg/L	4		9/19/03	none	SV
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N	0.072	mg/L	0.008		9/4/03	none	SV NC
232956	Sewage effluent COR-3	Hamlet of Coral Harbour	8/21/03	8/25/03	Conductivity, Specific	Physicals	Conductivity, Specific	1030	µS/cm	0.3		8/29/03	none	SV



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232957	Raw water	freshwater	Hamlet of Repuse	8/20/03	8/25/03	Total Metals (24) by ICP-MS	Metals, Total	Antimony	0.4	µg/L	0.1	9/20/03	Microwave	EPA200.
232957	Raw water REP-1	freshwater	Hamlet of Repuse Bay	8/20/03	8/25/03	Total Metals (24) by ICP-MS water	Metals, Total	Aluminum	< 30	µg/L	30	9/20/03	Microwave	EPA200.