



Indian and Northern  
Affairs Canada

Affaires Indiennes  
et du Nord Canada

SE

## MUNICIPAL WATER USE INSPECTION REPORT

Date: August 14, 2003

Licensee Rep. (Name/Title): Dennis Zettler/ SAO

Licensee: Hamlet of Baker Lake

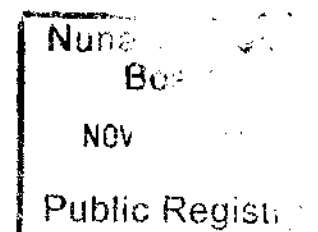
Licence No.: NWB3BAK9904

### WATER SUPPLY

Source(s): Baker Lake

Quantity used: Not Calculated

Owner/Operator: Hamlet of Baker Lake



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

Intake Facilities: NI

Storage Structure: A

Treatment Systems: A

Chemical Storage: A

Flow Meas. Device: A

Conveyance Lines: NI

Pumping Stations: A

**Comments:** There are no signs designating Baker Lake as the source of freshwater for the Hamlet but the facility is generally well maintained. Monthly and annual totals for water use are not calculated but the chlorine concentration upon delivery to the water trucks is measured and recorded.

### WASTE DISPOSAL

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

Natural Water Body:

Continuous Discharge (land or water): flows into water

Seasonal Discharge: X

Wetlands Treatment: ~30m

Trench:

**Solid Waste:**

Owner/Operator: Hamlet of Baker Lake

Landfill:

Burn & Landfill: X

Other:

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

Discharge Quality: Sampled

Decant Structure: NA

Erosion: A

Discharge Meas. Device: NIL

Dyke Inspection: U

Seepages: U

Dams, Dykes: A

Freeboard: U

Spills: yes (not reported)

Construction: NA

O&M Plan: NA

A&R Plan: NA

Periods of Discharge: A

Effluent Discharge Rate: Not Measured

**Comments:**

### FUEL STORAGE

Owner/Operator:

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

Berms & Liners: A

Water within Berms: A

Evidence of Leaks: A

Drainage Pipes: U

Pump Station & Catchment Berm: NA

Pipeline Condition: NI

Not Applicable:

Condition of Tanks: NI

### SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected Hamlet: unknown

INAC: potable water, sewage effluent, dump seepage

Signs Posted SNP: NIL

Warning: NIL

Records & Reporting: U

Geotechnical Inspection: None Required

**Non-Compliance of Act or Licence:** According to the water licence issued by the Nunavut Water Board the Hamlet is out of compliance with respect to development of an Operation and Maintenance Manual, an Abandonment and Restoration Plan and a Spill Contingency Plan. Results of sampling will reveal whether or not the effluent continuously discharged from the lagoon is within Canadian Guidelines. It is of concern that the lagoon was washed out and this went unreported, even if the pond downstream of the lagoon is considered part of the sewage treatment facility.

Scott Stewart

Inspector's Name

Inspector's Signature

Peter Kusugak

Field Operations Manager

Manager's Signature



# TAIGA

## Environmental Laboratory

[Show All](#) | [Search](#) | [First page](#) | [Prev](#) | [Next](#) | [Last page](#) | [Bottom](#)

Taiga Home																
About Us																
Analytical Capabilities																
Service Price List																
Rush Services																
Sampling & Supplies																
Consulting Services																
Laboratory Assessments																
Training																
On-line Results																
Resources & Links																
<i>Prior visitors may wish to visit the following forms directly (Adobe Acrobat Reader required):</i>																
Field Sheet																
Bottle Order Form																
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01	8/25/03	none	SM	
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Nickel	2.8	µg/L	0.1	8/18/03	Microwave	EP		
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Zinc	<	10	µg/L	10	8/18/03	Microwave	EP	
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Ammonia	Ammonia as N	<	0.005	mg/L	0.005	8/25/03	none	SM NH		

232651	Base	sewage	Arriet	8/7/03	8/12/03	Turbidity	Physicals	Turbidity	6.8	NTU	0.1	8/20/03	none	SW
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Calcium	Major Ions	Calcium	3.17	mg/L	0.05	8/19/03	none	SW
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Magnesium	Major Ions	Magnesium	1.18	mg/L	0.02	8/19/03	none	SW
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Potassium	Major Ions	Potassium	0.50	mg/L	0.03	8/20/03	none	SW K.L
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sodium	Major Ions	Sodium	0.83	mg/L	0.02	8/20/03	none	SW Na
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sulphate	Major Ions	Sulphate	< 3	mg/L	3	8/20/03	none	SW SO
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Arsenic, Total in water	Metals, Total	Arsenic	< 1	µg/L	1	8/18/03	Microwave	SW
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cadmium	< 0.1	µg/L	0.1	8/18/03	Microwave	EP



# TAIGA

## Environmental Laboratory

[Show All](#) [Search](#) [First page](#) [Prev](#) [Next](#) [Last page](#) [Bottom](#)

Taiga Home															
About Us															
Analytical Capabilities															
Service Price List															
Rush Services															
Sampling & Supplies															
Consulting Services															
Laboratory Assessments															
Training															
On-line Results															
Resources & Links															
<i>Prior visitors may wish to visit the following forms directly (Adobe Acrobat Reader required):</i>															
Field Sheet															
Bottle Order Form															
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	Prep Method
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Sulphate	Major Ions	Sulphate		12	mg/L	3			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Arsenic, Total in water	Metals, Total	Arsenic		1	µg/L	1			Microwave
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Iron, Total	Metals, Total	Iron		1021	µg/L	30			Microwave
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Ammonia	Nutrients	Ammonia as N		0.027	mg/L	0.005			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Chemical Oxygen Demand	Nutrients	Chemical Oxygen Demand		40	mg/L	1			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N		0.563	mg/L	0.008			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total		7.6	mg/L	0.2			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Conductivity, Specific	Physicals	Conductivity, Specific		130	µS/cm	0.3			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	pH	Physicals	pH		7.25	pH units	0.05			none
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Solids, Total Suspended	Physicals	Solids, Total Suspended		4	mg/L	3			GFC Fil.
232653	sewage bak-2	sewage	Hamlet of Baker Ik	8/8/03	8/12/03	Phenols	Subcontracted Organics	Phenols		165	µg/L	0.5			none
232654	seep bak-3	sewage lake	Hamlet of Baker lake	8/8/03	8/12/03	Calcium	Major Ions	Calcium		5.98	mg/L	0.05			none



# TAIGA

## Environmental Laboratory

[Show All](#) | [Search](#) | [First page](#) | [Prev](#) | [Next](#) | [Last page](#) | [Bottom](#)

Taiga Home														
About Us														
Analytical Capabilities														
Service Price List														
Rush Services														
Sampling & Supplies														
Consulting Services														
Laboratory Assessments														
Training														
On-line Results														
Resources & Links														
<i>Prior visitors may wish to visit the following forms directly (Adobe Acrobat Reader required):</i>														
<b>Field Sheet</b>														
<b>Bottle Order Form</b>														
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Nickel	1.5	µg/L	0.1	8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Ammonia	Nutrients	Ammonia as N	0.113	mg/L	0.005	8/25/03	none	SM NH
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Chemical Oxygen Demand	Nutrients	Chemical Oxygen Demand	25	mg/L	1	8/26/03	none	SM



**TAIGA**  
Environmental Laboratory

[Show All](#) | [Search](#) | [First page](#) | [Prev](#) | [Next](#) | [Last page](#) | [Bottom](#)

Taiga Home																			
About Us			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
Analytical Capabilities																			
Service Price List			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cadmium	<	0.1	µg/L	0.1			8/18/03	Microwave
Rush Services																			
Sampling & Supplies			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Chromium		1.9	µg/L	0.3			8/18/03	Microwave
Consulting Services																			
Laboratory Assessments			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cobalt		0.4	µg/L	0.1			8/18/03	Microwave
Training			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Copper		5.5	µg/L	0.2			8/18/03	Microwave
On-line Results																			
Resources & Links			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Iron, Total	Metals, Total	Iron		1860	µg/L	30			8/25/03	Microwave
Prior visitors may wish to visit the following forms directly (Adobe Acrobat Reader required):																			
Field Sheet			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Manganese		75.3	µg/L	0.1			8/18/03	Microwave
Bottle Order Form			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01			8/25/03	none
			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Nickel		2.7	µg/L	0.1			8/18/03	Microwave
			232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Zinc	<	10	µg/L	10			8/18/03	Microwave