

*Unama'ki Institute  
of Natural Resources*

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# Drinking Water Quality Report

2004-2005



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## ***Community Based Water Monitoring Program***

The First Nation Water Management Strategy and Community Water Monitoring Program were developed in collaboration with Health Canada's First Nation & Inuit Health Branch (FNIB), Environment Canada, Indian & Northern Affairs Canada (INAC) and First Nations.

First Nation & Inuit Health Branch (FNIB) Community Environment Officers do not have the manpower to adequately monitor drinking water quality in all First Nation communities. As a result, the Community Based Water Monitoring Program for Atlantic First Nations was developed. Through this program, capacity was built within First Nation communities to test water, enter data, and follow certain protocols when test results fall outside stringent criteria to ensure that drinking water is safe for their community.

All community based water monitors have undergone formal training at the Nova Scotia Community College, Truro, Nova Scotia through training program developed by Health Canada, FNIB and Anthony Nevin Management Solutions (ANMS). This training consists of practical and written evaluations in all sampling, testing and reporting techniques, protocols and regulations. An annual audit on their performance is conducted by Health Canada. One full year of on-site training combined with six weeks of one interval classroom instruction prepares operators for the Level I Certification in Water Distribution examination. The training module consists of:

- Basic properties of water and the hydrologic cycle
- Water contamination and its effects
- Providing a safe water supply to the communities
- Guidelines for Canadian Drinking Water Quality
- Maximum Acceptable Concentrations (MACs) and Interim Maximum Acceptable Concentrations (IMACs)
- The importance of safe drinking water
- Learning about the different types of microorganisms (pathogens, bacteria, viruses, protozoa), how they affect the community and where they come from
- Types of disinfectants and proper usage
- Proper use of instruments
- Turbidity control
- Sampling methods & recommendations
- Lab analysis and reporting results
- Corrective actions to be taken when bacteria present
- The importance of accurate record keeping
- Roles and responsibilities of being a Community Based Water Monitor

Observable characteristics, sources, health implications and treatments for a variety of chemicals are also included. The value of treating drinking water and the types of treatment are integrated as well. Furthermore, well construction and disinfection are covered in addition to well maintenance and troubleshooting.

## ***Sampling***

Health Canada provides on-reserve water quality sampling and analysis on a periodic basis. The Community Based Water Monitors responsible for testing the drinking water are Alex Marshall and Norman Isaac. These individuals take water samples from 4 sample stations in Chapel Island (Figure 1).

### ***Water Source for Chapel Island***

The drinking water supply for the community of Chapel Island originates from Indian Lake, which is the geographic centre of the reserve. The distribution system which services the majority of homes on Chapel Island, along with 12 on-site well systems are centrally located where it is not economical to run the watermain.

The water treatment process includes a nanofiltration system, water filtration to reduce color, turbidity and microorganisms, and chlorination to disinfect the supply prior to being pumped into the distribution system.

### ***Acceptable Criteria for Drinking Water***

Acceptable ranges for free available chlorine (FAC).

Recommended (FAC) limits are as follows:

- NS – min 0.2 mg/L, max 4 mg/L;
- PEI – no recommended chlorine levels;
- NB – min 0.1 mg/L (optimally 0.2 mg/L);
- Nfld – a measurable level.

Turbidity, which is measured in units called nephelometric turbidity units, NTUs has a maximum allowable concentration (MAC) of 1 NTU for treated water leaving the water treatment plant and entering the distribution system. A less stringent aesthetic objective value of 5 NTUs at the point of consumption (distribution system) may be used. No sample should contain *E. coli* or other coliform bacteria. The goal is 0 total coliform and 0 *E. coli* or non-detectable.

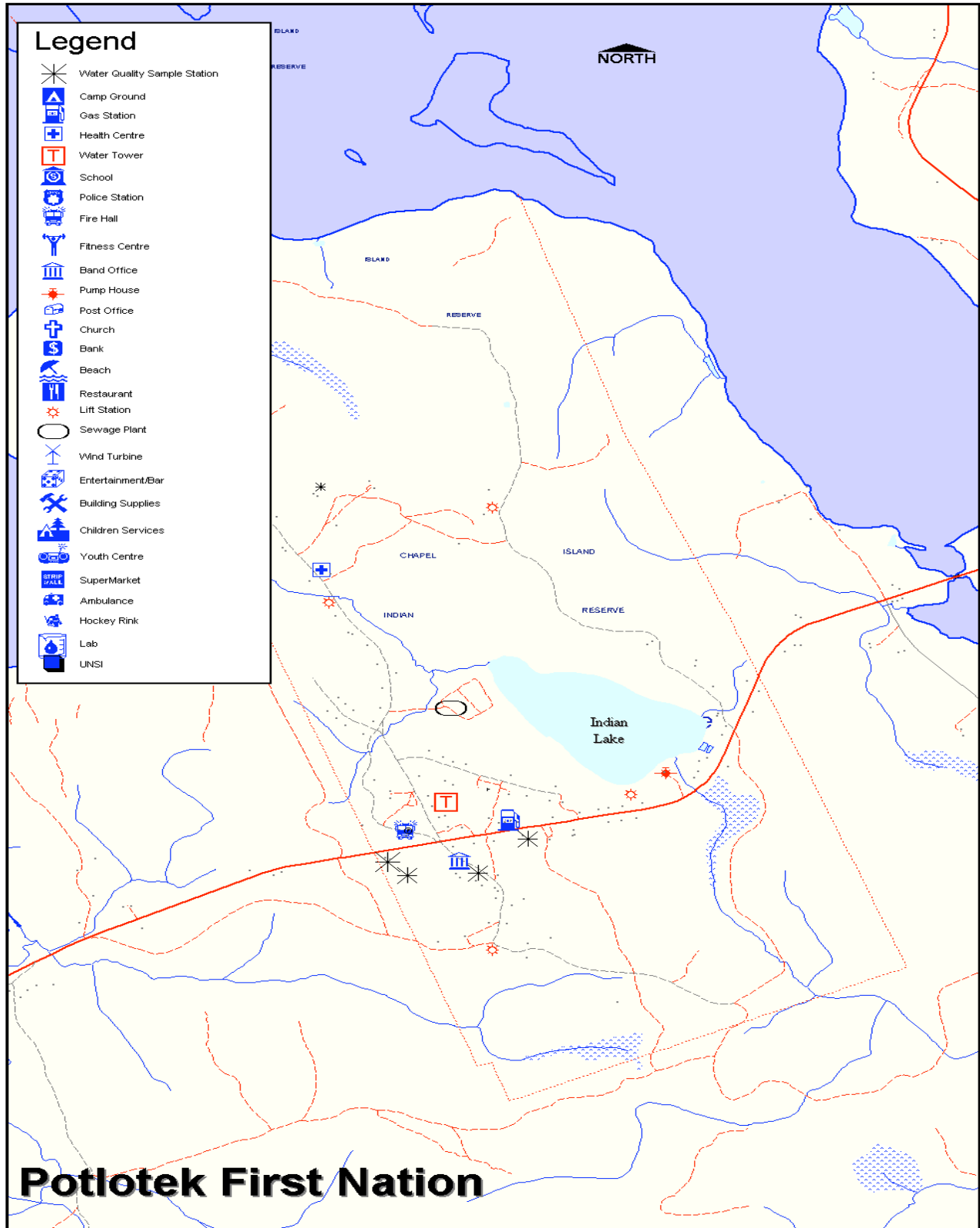


Figure 1. Locations of drinking water sample stations in Chapel Island.

## ***Methodology***

Sampling collection and processing for the presence/absence procedure for total coliforms and *E. coli*, Quanti-Tray (MPN) Procedure, Free Chlorine Procedure, Total Chlorine Procedure, and Turbidity are outlined in this report.

### ***Presence/Absence Procedure***

The colilert reagent (powder) is used to detect the presence of both total coliforms and *E. coli*. The method uses a reagent that when metabolized by total coliforms yields a yellow color and when metabolized by *E. coli* produces a bluish fluorescence when illuminated by an ultraviolet light. This test detects the presence or absence of total coliforms and *E. coli*, but not actual quantities.

- Run water for a couple minutes.
- If the water is chlorinated, collect sample using a bottle containing sodium thiosulfate.
- Fill the bottle to the 100 mL mark.
- Detach a snap pack of reagent and shake to dissolve any Colilert reagent that may have settled to the bottom.
- Open the snap pack by breaking along the dotted line, being careful not to touch the opening.
- Pour the reagent into the sample of water to be tested.
- Shake the bottle until the reagent is completely dissolved.
- Incubate sample for 24 hours at 35°C  $\pm$  0.5°C.
- Interpret the results after 24 hours.

If the water remains clear, the test is negative for fecal coliform. There is no yellow discoloration. If the water has a yellow discoloration, the test is positive for total coliform. The test is positive for *E. coli* when a bluish fluorescence is visible under illumination by an ultraviolet light at a distance of 12 cm.

### ***Quanti-Tray (MPN) Procedure***

- Run water for a couple minutes.
- If the water is chlorinated, collect sample using a bottle containing sodium thiosulfate.
- Fill the bottle to the 100 mL mark.
- Detach a snap pack of reagent and shake to dissolve any Colilert reagent that may have settled to the bottom.
- Open the snap pack by breaking along the dotted line, being careful not to touch the opening.
- Pour the reagent into the sample of water to be tested.
- Shake the bottle until the reagent is completely dissolved.
- Pour the sample into a Quanti-Tray being careful not to contaminate the tray with your hands.
- Seal the tray using the Quanti-Tray sealer.
- Incubate sample for 24 hours at 35°C  $\pm$  0.5°C.
- Interpret the results after 24 hours.

The test is negative if there is no coloration. The test is positive for total coliform, if yellow wells are present. Count the number of yellow wells and refer to the most probable number (MPN) table. The test is positive for *E. coli* when a bluish fluorescence is visible under illumination by an ultraviolet light at a distance of 12 cm. Count the number of bluish fluorescent wells and refer to the MPN table.

### ***Free Chlorine Procedure***

- Run water for a couple minutes.
- Fill a bottle to the 10 mL mark.
- Carefully dry the bottle with a lint free cloth to remove any trace of liquid or fingerprints.
- Remove the cover from the Chlorine Digital Test instrument.
- Place the sample bottle in the measuring chamber with the diamond-shaped marker facing towards the front of the instrument.
- Place the instrument's cover in position and press ZERO. The instrument lights up and the display should read 0.00.
- Remove the bottle from the measuring chamber.
- Fill a bottle to the 10 mL mark containing the water sample to be tested.
- To this bottle, add the contents of a packet of DPD reagent for free chlorine, or from your Colilert EZ DPD dispenser.
- Cover the bottle and shake it for 20 seconds. Some un-dissolved powder will not affect the test result.
- Carefully dry the bottle with a lint free cloth to remove any trace of liquid or fingerprints.
- Place the sample bottle in the measuring chamber with the diamond-shaped marker facing towards the front of the instrument within one minute of adding the reagent.
- Place the instrument's cover in position enclosing the bottle.
- Press READ. The instrument displays the result of the sample for free chlorine in mg/L.

### ***Total Chlorine Procedure***

- Run water for a couple minutes.
- Fill a bottle to the 10 mL mark.
- Carefully dry the bottle with a lint free cloth to remove any trace of liquid or fingerprints.
- Remove the cover from the Chlorine Digital Test instrument.
- Place the sample bottle in the measuring chamber with the diamond-shaped marker facing towards the front of the instrument.
- Place the instrument's cover in position and press ZERO. The instrument lights up and the display should read 0.00.
- Remove the bottle from the measuring chamber.
- Fill a bottle to the 10 mL mark containing the water sample to be tested.
- To this bottle, add the contents of a packet of DPD reagent for total chlorine.
- Cover the bottle and shake it for 20 seconds. Some un-dissolved powder will not affect the test result.

- Carefully dry the bottle with a lint free cloth to remove any trace of liquid or fingerprints.
- Place the sample bottle in the measuring chamber with the diamond-shaped marker facing towards the front of the instrument at least 3 minutes later, but no more than 6 minutes later.
- Place the instrument's cover in position enclosing the bottle.
- Press READ. The instrument displays the result of the sample for free chlorine in mg/L.

### ***Turbidity***

- Place the turbidimeter on a stable flat surface. Do not hold the instrument in your hand when taking measurements.
- Run water for a couple minutes before taking a sample.
- Fill a bottle, taking care to hold it by the neck. Screw on the lid.
- Carefully dry the bottle with a lint free cloth to remove any trace of liquid or fingerprints.
- Apply a thin film of silicone oil to the outside of the sample bottle.
- Wipe with a soft cloth to obtain a uniform film over the entire surface.
- Press  $\frac{1}{0}$  on the turbidimeter.
- Place the bottle in the measuring chamber, aligning the diamond-shaped mark on the bottle with the index on the front of the measuring chamber.
- Place the instrument's cover in position and press RANGE to choose the automatic mode AUTO RNG.
- Press READ. The display will indicate –NTU, then the turbidity reading in NTU. Press SIGNAL AVERAGE if the reading is unstable.
- Press  $\frac{1}{0}$  to turn instrument off.

Analysis of data was provided by Health Canada's WaterTrax database. Data was re-formatted to the tables used in this report.

No additional data was entered or modified from its original entry. Comments, however, were omitted. The data present in this report does not include data that was not entered into the WaterTrax database, therefore some results may be absent for the sampling period.

### ***Results***

During 2004, there were no exceedances for chlorine (1; Tables 1 and 4), total coliform (1; Tables 1 and 3), *E. coli* (Tables 1 and 2) or turbidity (Tables 5 and 6).

In 2005, there were considerably more instances where chlorine was below acceptable limits (Tables 7 and 10). There were no samples for *E. coli* (Table 8), turbidity (Table 11) or arsenic (Table 13) that were outside the acceptable limits. One exceedance was found for total coliform (Tables 7 and 9). For further information on sample locations and dates of exceedances in 2005, please refer to tables 9 and 10.



Table 1. Summary of drinking water quality sampling results for Chapel Island in 2004.

	Sample Type	# Samples	# Detects	# Non-Detects	# Exceedances	Min.	Max.	Avg
	Chlorine (Free)	81	80	1	0	4.00	1.80	0
	E. coli	109	0	109	0	0.00	<1	0
	Total Coliform	109	1	108	0	1	<1	

Table 2. Results for *E. coli* counts for Chapel Island in 2004. **Result:** P=present, A=absent, PR=presumptive, ND=not detected, OR=over range, OG=overgrown, NR=no result, NT=not tested "<" = less than detection limit shown, ">" = greater than upper range limit shown, "«" = less than number shown (Detected), "»" = greater than number shown (Detected), \* Criteria Exceeded.

Outside Limits	Date	Sample Location	E. coli (MPN/ 100 mL)
	07/06/2004	School	0
	07/06/2004	Band Office	0
	07/06/2004	Gas Bar	0
	07/06/2004	Health Center	0
	08/03/2004	School	0
	08/03/2004	Band Office	0
	08/03/2004	Gas Bar	0
	08/03/2004	Health Center	0
	08/07/2004	Chapel Island Water Treatment Plant Treated	<1
	08/07/2004	Isaac, Delores	<1
	08/07/2004	Battiste, Tony	<1
	08/07/2004	Gas Bar	<1
	08/07/2004	Gas Bar	0
	08/19/2004	Chapel Island Water Treatment Plant Treated	<1
	08/19/2004	Battiste, Tony	<1
	08/19/2004	Health Center	<1
	08/19/2004	Health Center	0
	08/19/2004	Gas Bar	<1

08/19/2004	Gas Bar	0
08/25/2004	Chapel Island Water Treatment Plant Treated	<1
08/25/2004	Isaac, Peter	<1
08/25/2004	Battiste, Tony	<1
08/25/2004	Gas Bar	<1
08/25/2004	Gas Bar	0
09/01/2004	Chapel Island Water Treatment Plant Treated	<1
09/01/2004	Isaac, Delores	<1
09/01/2004	Health Center	<1
09/01/2004	Health Center	0
09/01/2004	Gas Bar	<1
09/01/2004	Gas Bar	0
09/07/2004	School	0
09/07/2004	Band Office	0
09/07/2004	Gas Bar	0
09/07/2004	Health Center	0
09/10/2004	Chapel Island Water Treatment Plant Treated	<1
09/10/2004	Isaac, Steve	<1
09/10/2004	Battiste, Tony	<1
09/10/2004	Gas Bar	0
09/10/2004	Gas Bar	<1
09/17/2004	Band Office	0
09/17/2004	Band Office	<1
09/17/2004	School	<1
09/17/2004	School	0
09/20/2004	Gas Bar	0
09/20/2004	Health Center	0
09/20/2004	School	0
09/20/2004	Band Office	0
09/27/2004	Chapel Island Water Treatment Plant Treated	<1
09/27/2004	School Board	<1
09/27/2004	Isaac, Peter	<1
09/27/2004	Gas Bar	0
09/27/2004	Gas Bar	<1
10/01/2004	Chapel Island Water Treatment Plant Treated	<1
10/01/2004	Battiste, Noel	<1
10/01/2004	Isaac, Peter	<1
10/01/2004	Isaac, Delores	<1
10/04/2004	School	0

10/04/2004	Band Office	0
10/04/2004	Gas Bar	0
10/04/2004	Health Center	0
10/07/2004	Chapel Island Water Treatment Plant Treated	<1
10/07/2004	School Board	<1
10/07/2004	Health Center	<1
10/07/2004	Health Center	0
10/07/2004	Gas Bar	0
10/07/2004	Gas Bar	<1
11/04/2004	Chapel Island Water Treatment Plant Treated	<1
11/04/2004	School	0
11/04/2004	School	<1
11/04/2004	Battiste, Tony	<1
11/04/2004	Gas Bar	0
11/04/2004	Gas Bar	<1
11/08/2004	Band Office	<1
11/08/2004	Band Office	0
11/08/2004	Daycare	<1
11/08/2004	Marshall, Alex	<1
11/08/2004	Gas Bar	0
11/08/2004	Gas Bar	<1
11/09/2004	Band Office	<1
11/09/2004	Dental Office	<1
11/09/2004	Health Center	<1
11/09/2004	Gas Bar	<1
11/13/2004	Tousenard, Laurie	<1
11/13/2004	Battiste, Tony	<1
11/13/2004	Marshall, John	<1
11/13/2004	Marshall, Russell	<1
11/16/2004	School	0
11/16/2004	Band Office	0
11/16/2004	Gas Bar	0
11/16/2004	Health Center	0
11/17/2004	Pictou, Bob	0
11/17/2004	Pictou, Bob	<1
11/17/2004	Marshall, Maynard	<1
11/17/2004	Fire hall	<1
11/17/2004	Basque, Kenny	<1
11/22/2004	Marshall, Alex	<1



	08/19/2004	Health Center	0
	08/19/2004	Gas Bar	<1
	08/19/2004	Gas Bar	0
	08/25/2004	Chapel Island Water Treatment Plant Treated	<1
	08/25/2004	Isaac, Peter	<1
	08/25/2004	Battiste, Tony	<1
	08/25/2004	Gas Bar	<1
	08/25/2004	Gas Bar	0
	09/01/2004	Chapel Island Water Treatment Plant Treated	<1
	09/01/2004	Isaac, Delores	<1
	09/01/2004	Health Center	<1
	09/01/2004	Health Center	0
	09/01/2004	Gas Bar	<1
	09/01/2004	Gas Bar	0
	09/07/2004	Band Office	0
	09/07/2004	Gas Bar	0
	09/07/2004	Health Center	0
	09/07/2004	School	0
	09/10/2004	Chapel Island Water Treatment Plant Treated	<1
	09/10/2004	Isaac, Steve	<1
	09/10/2004	Battiste, Tony	<1
	09/10/2004	Gas Bar	0
	09/10/2004	Gas Bar	<1
	09/17/2004	Band Office	0
	09/17/2004	Band Office	<1
	09/17/2004	School	0
	09/17/2004	School	<1
*	09/20/2004	Band Office	1
	09/20/2004	Gas Bar	0
	09/20/2004	Health Center	0
	09/20/2004	School	0
	09/27/2004	Chapel Island Water Treatment Plant Treated	<1
	09/27/2004	School Board	<1
	09/27/2004	Isaac, Peter	<1
	09/27/2004	Gas Bar	0
	09/27/2004	Gas Bar	<1
	10/01/2004	Chapel Island Water Treatment Plant Treated	<1

10/01/2004	Battiste, Noel	<1
10/01/2004	Isaac, Peter	<1
10/01/2004	Isaac, Delores	<1
10/04/2004	Band Office	0
10/04/2004	Gas Bar	0
10/04/2004	Health Center	0
10/04/2004	School	0
10/07/2004	Chapel Island Water Treatment Plant Treated	<1
10/07/2004	School Board	<1
10/07/2004	Health Center	<1
10/07/2004	Health Center	0
10/07/2004	Gas Bar	0
10/07/2004	Gas Bar	<1
11/04/2004	Chapel Island Water Treatment Plant Treated	<1
11/04/2004	School	<1
11/04/2004	School	0
11/04/2004	Battiste, Tony	<1
11/04/2004	Gas Bar	0
11/04/2004	Gas Bar	<1
11/08/2004	Band Office	<1
11/08/2004	Band Office	0
11/08/2004	Marshall, Alex	<1
11/08/2004	Daycare	<1
11/08/2004	Gas Bar	0
11/08/2004	Gas Bar	<1
11/09/2004	Band Office	<1
11/09/2004	Dental Office	<1
11/09/2004	Health Center	<1
11/09/2004	Gas Bar	<1
11/13/2004	Tousenard, Laurie	<1
11/13/2004	Battiste, Tony	<1
11/13/2004	Marshall, John	<1
11/13/2004	Marshall, Russell	<1
11/16/2004	Band Office	0
11/16/2004	Gas Bar	0
11/16/2004	Health Center	0

	11/16/2004	School	0
	11/17/2004	Pictou, Bob	0
	11/17/2004	Pictou, Bob	<1
	11/17/2004	Marshall, Maynard	<1
	11/17/2004	Fire hall	<1
	11/17/2004	Basque, Kenny	<1
	11/22/2004	Marshall, Alex	<1
	11/22/2004	School Board	<1
	12/01/2004	Band Office	0
	12/01/2004	Gas Bar	0
	12/01/2004	Health Center	0
	12/01/2004	School	0
	12/03/2004	School	<1
	12/03/2004	Band Office	<1
	12/03/2004	Gas Bar	<1
	12/03/2004	Chapel Island Water Treatment Plant Treated	<1
	12/16/2004	Isaac, Delores	<1
	12/16/2004	Isaac, Annie	<1
	12/16/2004	Gas Bar	<1
	12/16/2004	Chapel Island Water Treatment Plant Treated	<1

Table 4. Chlorine results for Chapel Island in 2004.

Outside Limits	Date	Sample Location	Chlorine (free) (mg/L)

	8/25/2004	Battiste, Tony	0.7
	8/25/2004	Chapel Island Water Treatment Plant Treated	0.91
	8/25/2004	Gas Bar	0.36
	8/25/2004	Gas Bar	0.56
	8/25/2004	Isaac, Peter	0.06
	9/1/2004	Chapel Island Water Treatment Plant Treated	0.51
	9/1/2004	Gas Bar	0.17
	9/1/2004	Gas Bar	0.17
	9/1/2004	Health Center	0.06
	9/1/2004	Isaac, Peter	0.07
	9/10/2004	Battiste, Tony	0.44
	9/10/2004	Chapel Island Water Treatment Plant Treated	0.61
	9/10/2004	Gas Bar	0.26
	9/10/2004	Gas Bar	0.26
	9/10/2004	Isaac, Steve	0.09
	9/17/2004	Band Office	0.15
	9/17/2004	Band Office	0.15
*	9/17/2004	School	0.03
*	9/17/2004	School	0.03
	09/27/2004	Chapel Island Water Treatment Plant Treated	0.58
	09/27/2004	Gas Bar	0.30
	09/27/2004	Gas Bar	0.3
	09/27/2004	Isaac, Peter	0.05
	09/27/2004	School Board	0.18
	10/01/2004	Battiste, Noel	0.08
	10/01/2004	Chapel Island Water Treatment Plant Treated	1.80
	10/01/2004	Isaac, Peter	0.06
	10/01/2004	Isaac, Peter	0.85
	10/07/2004	Chapel Island Water Treatment Plant Treated	0.94
	10/07/2004	Gas Bar	0.85
	10/07/2004	Gas Bar	0.85
	10/07/2004	Health Center	0.17
	10/07/2004	Health Center	0.17
	10/07/2004	School Board	0.63
	11/04/2004	Battiste, Tony	0.42
	11/04/2004	Chapel Island Water Treatment Plant Treated	0.43



	11/04/2004	Gas Bar	0.39
	11/04/2004	Gas Bar	0.39
	11/04/2004	School	0.09
	11/04/2004	School	0.09
	11/08/2004	Band Office	0.51
	11/08/2004	Band Office	0.51
	11/08/2004	Daycare	0.42
	11/08/2004	Gas Bar	0.39
	11/08/2004	Gas Bar	0.39
	11/08/2004	Marshall, Alex	0.21
	11/09/2004	Band Office	0.55
	11/09/2004	Dental Office	0.45
	11/09/2004	Gas Bar	0.59
	11/09/2004	Health Center	0.42
	11/13/2004	Battiste, Tony	0.39
	11/13/2004	Marshall, John	0.38
	11/13/2004	Marshall, Russell	0.41
	11/13/2004	Tousenard, Laurie	0.30
	11/17/2004	Basque, Kenny	0.51
	11/17/2004	Fire hall	0.20
	11/17/2004	Marshall, Maynard	0.49
	11/17/2004	Pictou, Bob	0.19
	11/17/2004	Pictou, Bob	0.19
	11/22/2004	Marshall, Alex	0.21
	11/22/2004	School Board	0.32
	12/03/2004	Band Office	0.14
	12/03/2004	Chapel Island Water Treatment Plant Treated	0.45
	12/03/2004	Gas Bar	0.40
	12/16/2004	Chapel Island Water Treatment Plant Treated	0.65
	12/16/2004	Gas Bar	0.38
*	12/16/2004	Isaac, Annie	0
	12/16/2004	Isaac, Delores	0.17
*	12/3/2004	School	0.02

Table 5. Summary of routine physical analysis results for drinking water in Chapel Island (2004).

Sample Type	# Samples	# Detects	# Non-Detects	# Exceedances	Min.	Max.	Average	95th Percentile	Unit
Turbidity	12	8	4	0	0.00	0.34	0.09	0.25	NTU

Table 6. Results from routine chemical and/or physical samples for drinking water quality in Chapel Island (2004). **Result:** P=present, A=absent, PR=presumptive, ND=not detected, OR=over range, OG=overgrown, NR=no result, NT=not tested "<" = less than detection limit shown, ">" = greater than upper range limit shown, "<<" = less than number shown (Detected), ">>" = greater than number shown (Detected), \* Criteria Exceeded.

Outside Limits	Date	Sample Location	Turbidity (NTU)
	11/09/2004	Gas Bar	0
	11/09/2004	Health Center	0
	11/09/2004	Band Office	0
	11/09/2004	Dental Office	0
	12/03/2004	School	0.15
	12/03/2004	Band Office	0.14
	12/03/2004	Gas Bar	0.08
	12/03/2004	Chapel Island Water Treatment Plant Treated	0.07
	12/16/2004	Isaac, Delores	0.11
	12/16/2004	Isaac, Annie	0.34
	12/16/2004	Gas Bar	0.13
	12/16/2004	Chapel Island Water Treatment Plant Treated	0.08

Table 7. Summary of drinking water quality sampling results for Chapel Island in 2005.

Samples	# Detects	# Non-Detects	# Exceedances	Min.	Max.	Average	Unit
105	105	0	11	0.01	1.54	0.38	mg/L
133	0	133	0	0	<1	0.00	MPN/100 mL
133	2	131	2	0	4	0.40	MPN/100 mL

Table 8. Results for *E. coli* counts for Chapel Island in 2005. **Result:** P=present, A=absent, PR=presumptive, ND=not detected, OR=over range, OG=overgrown, NR=no result, NT=not tested "<" = less than detection limit shown, ">" = greater than upper range limit shown, "«" = less than number shown (Detected), "»" = greater than number shown (Detected), \* Criteria Exceeded.

Outside Limits	Date	Sample Location	<i>E. coli</i> (MPN/ 100 mL)
	1/5/2005	Gas Bar	0
	1/5/2005	Health Center	0
	1/5/2005	School	0
	1/5/2005	Band Office	0
	1/6/2005	Johnson, Mattie	<1
	1/6/2005	Health Center	<1
	1/6/2005	Gas Bar	<1
	1/6/2005	Chapel Island Water Treatment Plant Treated	<1
	1/15/2005	Isaac, Annie	<1
	1/15/2005	Isaac, Delores	<1
	1/15/2005	Isaac, Norman	<1
	1/15/2005	Chapel Island Water Treatment Plant Treated	<1
	2/3/2005	Health Center	<1
	2/3/2005	Band Office	<1
	2/3/2005	Gas Bar	<1
	2/3/2005	Chapel Island Water Treatment Plant Treated	<1
	2/7/2005	Gas Bar	0
	2/7/2005	Health Center	0
	2/7/2005	School	0
	2/7/2005	Band Office	0
	2/12/2005	Isaac, Annie	<1
	2/12/2005	Isaac, Delores	<1
	2/12/2005	Isaac, Norman	<1
	2/12/2005	Chapel Island Water Treatment Plant Treated	<1
	2/26/2005	Isaac, Delores	<1
	2/26/2005	Paul, Mary	<1
	2/26/2005	Gas Bar	<1
	2/26/2005	Chapel Island Water Treatment Plant Treated	<1
	4/4/2005	Isaac, Delores	<1

4/6/2005	Gas Bar	<1
4/6/2005	Health Center	<1
4/6/2005	School	<1
4/6/2005	Band Office	<1
4/11/2005	Gas Bar	<1
4/11/2005	Chapel Island Water Treatment Plant Treated	<1
4/13/2005	Gas Bar	<1
4/20/2005	Isaac, Delores	<1
4/20/2005	Isaac, Norman	<1
4/28/2005	Gas Bar	<1
4/28/2005	Health Center	<1
4/28/2005	School Board	<1
4/28/2005	Chapel Island Water Treatment Plant Treated	<1
5/4/2005	Gas Bar	<1
5/4/2005	Health Center	<1
5/4/2005	School	<1
5/4/2005	Band Office	<1
5/25/2005	School Board	<1
5/25/2005	Chapel Island Water Treatment Plant Treated	<1
5/25/2005	Health Center	<1
5/25/2005	Gas Bar	<1
5/31/2005	Isaac, Norman	<1
5/31/2005	Isaac, Delores	<1
5/31/2005	School	<1
5/31/2005	Chapel Island Water Treatment Plant Treated	<1
6/7/2005	School Board	<1
6/7/2005	Band Office	<1
6/17/2005	Band Office	<1
6/17/2005	Health Center	<1
6/17/2005	Gas Bar	<1
6/17/2005	Chapel Island Water Treatment Plant Treated	<1
6/28/2005	Health Center	<1
6/28/2005	Band Office	<1
6/28/2005	Isaac, Delores	<1
6/28/2005	Chapel Island Water Treatment Plant Treated	<1
7/11/2005	Isaac, Norman	<1
7/11/2005	Health Center	<1
7/11/2005	School Board	<1
7/11/2005	Chapel Island Water Treatment Plant Treated	<1

7/21/2005	Gas Bar	<1
7/21/2005	Band Office	<1
7/21/2005	Health Center	<1
7/21/2005	Chapel Island Water Treatment Plant Treated	<1
7/29/2005	Isaac, Norman	<1
7/29/2005	Isaac, Delores	<1
7/29/2005	Chapel Island Water Treatment Plant Treated	<1
7/29/2005	Health Center	<1
8/5/2005	Band Office	<1
8/5/2005	Health Center	<1
8/5/2005	Isaac, Delores	<1
8/5/2005	Chapel Island Water Treatment Plant Treated	<1
8/8/2005	Marshall, Russell	<1
8/8/2005	Marshall, Alex	<1
8/16/2005	Isaac, Delores	<1
8/16/2005	Isaac, Norman	<1
8/16/2005	Gas Bar	<1
8/16/2005	Chapel Island Water Treatment Plant Treated	<1
8/26/2005	Band Office	<1
8/26/2005	School Board	<1
8/26/2005	Isaac, Delores	<1
8/26/2005	Chapel Island Water Treatment Plant Treated	<1
8/31/2005	Band Office	<1
8/31/2005	Health Center	<1
8/31/2005	Gas Bar	<1
8/31/2005	Chapel Island Water Treatment Plant Treated	<1
9/8/2005	Gas Bar	<1
9/8/2005	Health Center	<1
9/8/2005	School	<1
9/8/2005	Band Office	<1
9/14/2005	Band Office	<1
9/14/2005	Health Center	<1
9/14/2005	Gas Bar	<1
9/14/2005	Chapel Island Water Treatment Plant Treated	<1
9/23/2005	Health Center	<1
9/23/2005	Isaac, Norman	<1
9/23/2005	Isaac, Delores	<1
9/23/2005	Chapel Island Water Treatment Plant Treated	<1
9/24/2005	Chapel Island Water Treatment Plant Treated	<1

10/12/2005	Band Office	<1
10/12/2005	Health Center	<1
10/12/2005	School Board	<1
10/12/2005	Chapel Island Water Treatment Plant Treated	<1
10/17/2005	Gas Bar	<1
10/17/2005	Health Center	<1
10/17/2005	School	<1
10/17/2005	Band Office	<1
10/21/2005	School Board	<1
10/21/2005	Health Center	<1
10/21/2005	Tousenard, Laurie	<1
10/21/2005	Chapel Island Water Treatment Plant Treated	<1
11/4/2005	Band Office	<1
11/4/2005	Health Center	<1
11/4/2005	School Board	<1
11/4/2005	Chapel Island Water Treatment Plant Treated	<1
12/1/2005	Gas Bar	<1
12/1/2005	Health Center	<1
12/5/2005	Gas Bar	<1
12/5/2005	Health Center	<1
12/5/2005	School	<1
12/5/2005	Band Office	<1
12/14/2005	Marshall, Russell	<1
12/14/2005	Health Center	<1
12/14/2005	Tousenard, Laurie	A
12/14/2005	Marshall, Alex	<1

Table 9. Results for total coliform counts for Chapel Island in 2005.

**Result:** P=present, A=absent, PR=presumptive, ND=not detected, OR=over range, OG=overgrown, NR=no result, NT=not tested "<" = less than detection limit shown, ">" = greater than upper range limit shown, "«" = less than number shown (Detected), "»" = greater than number shown (Detected), \* Criteria Exceeded.

Outside Limits	Date	Sample Location	Total Coliforms (MPN/ 100mL)
	1/5/2005	Gas Bar	0
	1/5/2005	Health Center	0

	1/5/2005	Band Office	0
	1/5/2005	School	0
	1/6/2005	Johnson, Mattie	<1
	1/6/2005	Health Center	<1
	1/6/2005	Gas Bar	<1
	1/6/2005	Chapel Island Water Treatment Plant Treated	<1
	1/15/2005	Isaac, Annie	<1
	1/15/2005	Isaac, Delores	<1
	1/15/2005	Isaac, Norman	<1
	1/15/2005	Chapel Island Water Treatment Plant Treated	<1
	2/3/2005	Health Center	<1
	2/3/2005	Band Office	<1
	2/3/2005	Gas Bar	<1
	2/3/2005	Chapel Island Water Treatment Plant Treated	<1
	2/7/2005	Gas Bar	0
	2/7/2005	Health Center	0
	2/7/2005	Band Office	0
	2/7/2005	School	0
	2/12/2005	Isaac, Annie	<1
	2/12/2005	Isaac, Delores	<1
	2/12/2005	Isaac, Norman	<1
	2/12/2005	Chapel Island Water Treatment Plant Treated	<1
	2/26/2005	Isaac, Delores	<1
	2/26/2005	Paul, Mary	<1
	2/26/2005	Gas Bar	<1
	2/26/2005	Chapel Island Water Treatment Plant Treated	<1
	4/4/2005	Isaac, Delores	<1
	4/6/2005	Gas Bar	<1
	4/6/2005	Health Center	<1
	4/6/2005	Band Office	<1
	4/6/2005	School	<1
*	4/11/2005	Gas Bar	4.0
	4/11/2005	Chapel Island Water Treatment Plant Treated	<1
	4/13/2005	Gas Bar	<1
	4/20/2005	Isaac, Delores	<1
	4/20/2005	Isaac, Norman	<1
	4/28/2005	Gas Bar	<1
	4/28/2005	Health Center	<1
	4/28/2005	School Board	<1

4/28/2005	Chapel Island Water Treatment Plant Treated	<1
5/4/2005	Gas Bar	<1
5/4/2005	Health Center	<1
5/4/2005	Band Office	<1
5/4/2005	School	<1
5/25/2005	School Board	<1
5/25/2005	Chapel Island Water Treatment Plant Treated	<1
5/25/2005	Health Center	<1
5/25/2005	Gas Bar	<1
5/31/2005	Isaac, Norman	<1
5/31/2005	Isaac, Delores	<1
5/31/2005	School	<1
5/31/2005	Chapel Island Water Treatment Plant Treated	<1
6/7/2005	School Board	<1
6/7/2005	Band Office	<1
6/17/2005	Band Office	<1
6/17/2005	Health Center	<1
6/17/2005	Gas Bar	<1
6/17/2005	Chapel Island Water Treatment Plant Treated	<1
6/28/2005	Health Center	<1
6/28/2005	Band Office	<1
6/28/2005	Isaac, Delores	<1
6/28/2005	Chapel Island Water Treatment Plant Treated	<1
7/11/2005	Isaac, Norman	<1
7/11/2005	Health Center	<1
7/11/2005	School Board	<1
7/11/2005	Chapel Island Water Treatment Plant Treated	<1
7/21/2005	Gas Bar	<1
7/21/2005	Band Office	<1
7/21/2005	Health Center	<1
7/21/2005	Chapel Island Water Treatment Plant Treated	<1
7/29/2005	Isaac, Norman	<1
7/29/2005	Isaac, Delores	<1
7/29/2005	Chapel Island Water Treatment Plant Treated	<1
7/29/2005	Health Center	<1
8/5/2005	Band Office	<1
8/5/2005	Health Center	<1



	8/5/2005	Isaac, Delores	<1
	8/5/2005	Chapel Island Water Treatment Plant Treated	<1
	8/8/2005	Marshall, Russell	<1
	8/8/2005	Marshall, Alex	<1
	8/16/2005	Isaac, Delores	<1
	8/16/2005	Isaac, Norman	<1
	8/16/2005	Gas Bar	<1
	8/16/2005	Chapel Island Water Treatment Plant Treated	<1
	8/26/2005	Band Office	<1
	8/26/2005	School Board	<1
	8/26/2005	Isaac, Delores	<1
	8/26/2005	Chapel Island Water Treatment Plant Treated	<1
	8/31/2005	Band Office	<1
	8/31/2005	Health Center	<1
	8/31/2005	Gas Bar	<1
	8/31/2005	Chapel Island Water Treatment Plant Treated	<1
	9/8/2005	Gas Bar	<1
	9/8/2005	Health Center	<1
	9/8/2005	Band Office	<1
	9/8/2005	School	<1
	9/14/2005	Band Office	<1
	9/14/2005	Health Center	<1
	9/14/2005	Gas Bar	<1
	9/14/2005	Chapel Island Water Treatment Plant Treated	<1
	9/23/2005	Health Center	<1
	9/23/2005	Isaac, Norman	<1
	9/23/2005	Isaac, Delores	<1
*	9/23/2005	Chapel Island Water Treatment Plant Treated	P
	9/24/2005	Chapel Island Water Treatment Plant Treated	<1
	10/12/2005	Band Office	<1
	10/12/2005	Health Center	<1
	10/12/2005	School Board	<1
	10/12/2005	Chapel Island Water Treatment Plant Treated	<1
	10/17/2005	Gas Bar	<1
	10/17/2005	Health Center	<1
	10/17/2005	Band Office	<1
	10/17/2005	School	<1

	10/21/2005	School Board	<1
	10/21/2005	Health Center	<1
	10/21/2005	Tousenard, Laurie	<1
	10/21/2005	Chapel Island Water Treatment Plant Treated	<1
	11/4/2005	Band Office	<1
	11/4/2005	Health Center	<1
	11/4/2005	School Board	<1
	11/4/2005	Chapel Island Water Treatment Plant Treated	<1
	12/1/2005	Gas Bar	<1
	12/1/2005	Health Center	<1
	12/5/2005	Gas Bar	<1
	12/5/2005	Health Center	<1
	12/5/2005	Band Office	<1
	12/5/2005	School	<1
	12/14/2005	Marshall, Russell	<1
	12/14/2005	Health Center	<1
	12/14/2005	Marshall, Alex	<1
	12/14/2005	Tousenard, Laurie	A

Table 10. Chlorine results for Chapel Island in 2005.

Outside Limits	Date	Sample Location	Chlorine (free) (mg/L)
	1/6/2005	Johnson, Mattie	0.56
	1/6/2005	Health Center	0.31
	1/6/2005	Gas Bar	0.72
	1/6/2005	Chapel Island Water Treatment Plant Treated	0.72
	1/15/2005	Isaac, Annie	0.14
	1/15/2005	Isaac, Delores	0.24
	1/15/2005	Isaac, Norman	0.23
	1/15/2005	Chapel Island Water Treatment Plant Treated	0.43
	2/3/2005	Health Center	0.22
	2/3/2005	Band Office	0.29
	2/3/2005	Gas Bar	0.54
	2/3/2005	Chapel Island Water Treatment Plant Treated	0.58
	2/12/2005	Isaac, Annie	0.23
	2/12/2005	Isaac, Delores	0.18

	2/12/2005	Isaac, Norman	0.20
	2/12/2005	Chapel Island Water Treatment Plant Treated	0.27
	2/26/2005	Isaac, Delores	0.26
	2/26/2005	Paul, Mary	0.29
	2/26/2005	Gas Bar	0.46
	2/26/2005	Chapel Island Water Treatment Plant Treated	0.49
	4/4/2005	Isaac, Delores	0.34
	4/11/2005	Gas Bar	0.39
	4/11/2005	Chapel Island Water Treatment Plant Treated	0.50
	4/13/2005	Gas Bar	0.50
	4/20/2005	Isaac, Delores	0.63
	4/20/2005	Isaac, Norman	0.51
	4/28/2005	Gas Bar	0.11
	4/28/2005	Health Center	0.11
	4/28/2005	School Board	0.10
	4/28/2005	Chapel Island Water Treatment Plant Treated	1.08
	5/25/2005	School Board	0.12
*	5/25/2005	Chapel Island Water Treatment Plant Treated	0.08
	5/25/2005	Health Center	0.35
	5/25/2005	Gas Bar	0.07
	5/31/2005	Isaac, Norman	0.34
	5/31/2005	Isaac, Delores	0.29
	5/31/2005	School	0.16
	5/31/2005	Chapel Island Water Treatment Plant Treated	0.43
	6/7/2005	Band Office	0.25
	6/7/2005	School Board	0.28
	6/17/2005	Band Office	0.23
	6/17/2005	Health Center	0.20
	6/17/2005	Gas Bar	0.30
	6/17/2005	Chapel Island Water Treatment Plant Treated	0.42
	6/28/2005	Health Center	0.19
	6/28/2005	Band Office	0.17
	6/28/2005	Isaac, Delores	0.17
	6/28/2005	Chapel Island Water Treatment Plant Treated	0.50
	7/11/2005	Isaac, Norman	0.44
	7/11/2005	Health Center	0.06
	7/11/2005	School Board	0.47

	7/11/2005	Chapel Island Water Treatment Plant Treated	0.59
	7/21/2005	Gas Bar	0.57
	7/21/2005	Band Office	0.32
	7/21/2005	Health Center	0.19
	7/21/2005	Chapel Island Water Treatment Plant Treated	0.74
	7/29/2005	Isaac, Norman	0.54
	7/29/2005	Isaac, Delores	0.26
	7/29/2005	Chapel Island Water Treatment Plant Treated	0.75
	7/29/2005	Health Center	0.15
	8/5/2005	Band Office	0.49
	8/5/2005	Health Center	0.09
	8/5/2005	Isaac, Delores	0.42
	8/5/2005	Chapel Island Water Treatment Plant Treated	0.62
	8/8/2005	Marshall, Russell	0.35
	8/8/2005	Marshall, Alex	0.21
	8/16/2005	Isaac, Delores	0.90
	8/16/2005	Isaac, Norman	0.83
	8/16/2005	Gas Bar	0.82
	8/16/2005	Chapel Island Water Treatment Plant Treated	1.41
	8/26/2005	Band Office	0.18
	8/26/2005	School Board	0.26
	8/26/2005	Isaac, Delores	0.20
	8/26/2005	Chapel Island Water Treatment Plant Treated	0.67
	8/31/2005	Band Office	0.17
*	8/31/2005	Health Center	0.01
	8/31/2005	Gas Bar	0.57
	8/31/2005	Chapel Island Water Treatment Plant Treated	0.64
	9/14/2005	Band Office	0.15
*	9/14/2005	Health Center	0.02
	9/14/2005	Gas Bar	0.16
	9/14/2005	Chapel Island Water Treatment Plant Treated	0.26
*	9/23/2005	Health Center	0.02
*	9/23/2005	Isaac, Norman	0.02
*	9/23/2005	Isaac, Delores	0.02
*	9/23/2005	Chapel Island Water Treatment Plant Treated	0.02
	9/24/2005	Chapel Island Water Treatment Plant Treated	0.21
	10/12/2005	Band Office	0.49

*	10/12/2005	Health Center	0.04
	10/12/2005	School Board	0.84
	10/12/2005	Chapel Island Water Treatment Plant Treated	1.54
	10/21/2005	School Board	0.05
*	10/21/2005	Health Center	0.04
*	10/21/2005	Tousenard, Laurie	0.02
	10/21/2005	Chapel Island Water Treatment Plant Treated	0.34
	11/4/2005	Band Office	0.13
*	11/4/2005	Health Center	0.04
	11/4/2005	School Board	0.70
	11/4/2005	Chapel Island Water Treatment Plant Treated	1.21
	12/1/2005	Gas Bar	0.81
	12/1/2005	Health Center	0.28
	12/14/2005	Tousenard, Laurie	0.36
	12/14/2005	Marshall, Alex	0.52
	12/14/2005	Marshall, Russell	0.69
	12/14/2005	Health Center	0.48

Table 11. Summary of routine physical analysis results for drinking water in Chapel Island (2005).

Sample Type	# Samples	# Detects	# Non-Detects	# Exceedances	Min.	Max.	Average	95th Percentile	Unit
Turbidity	105	105	0	0	0.011	0.59	0.131	0.38	NTU
Arsenic	1	1	0	0	0.014	0.014	0.014	N/A	mg/L

Table 12. Results from routine chemical and physical samples for drinking water quality in Chapel Island (2005). **Result:** P=present, A=absent, PR=presumptive, ND=not detected, OR=over range, OG=overgrown, NR=no result, NT=not tested "<" = less than detection limit shown, ">" = greater than upper range limit shown, "<<" = less than number shown (Detected), ">>" = greater than number shown (Detected), \* Criteria Exceeded.

Outside Limits	Date	Sample Location	Turbidity (NTU)
	1/6/2005	Johnson, Mattie	0.11
	1/6/2005	Health Center	0.23
	1/6/2005	Gas Bar	0.11

1/6/2005	Chapel Island Water Treatment Plant Treated	0.11
1/15/2005	Isaac, Annie	0.15
1/15/2005	Isaac, Delores	0.08
1/15/2005	Isaac, Norman	0.15
1/15/2005	Chapel Island Water Treatment Plant Treated	0.08
2/3/2005	Health Center	0.12
2/3/2005	Band Office	0.14
2/3/2005	Gas Bar	0.24
2/3/2005	Chapel Island Water Treatment Plant Treated	0.08
2/12/2005	Isaac, Annie	0.13
2/12/2005	Isaac, Delores	0.20
2/12/2005	Isaac, Norman	0.09
2/12/2005	Chapel Island Water Treatment Plant Treated	0.08
2/26/2005	Isaac, Delores	0.12
2/26/2005	Paul, Mary	0.27
2/26/2005	Gas Bar	0.14
2/26/2005	Chapel Island Water Treatment Plant Treated	0.21
4/4/2005	Isaac, Delores	0.12
4/11/2005	Gas Bar	0.12
4/11/2005	Chapel Island Water Treatment Plant Treated	0.12
4/13/2005	Gas Bar	0.11
4/20/2005	Isaac, Delores	0.09
4/20/2005	Isaac, Norman	0.14
4/28/2005	Gas Bar	0.40
4/28/2005	Health Center	0.24
4/28/2005	School Board	0.31
4/28/2005	Chapel Island Water Treatment Plant Treated	0.09
5/25/2005	School Board	0.08
5/25/2005	Chapel Island Water Treatment Plant Treated	0.07
5/25/2005	Health Center	0.13
5/25/2005	Gas Bar	0.07
5/31/2005	Isaac, Norman	0.09
5/31/2005	Isaac, Delores	0.09
5/31/2005	School	0.13
5/31/2005	Chapel Island Water Treatment Plant Treated	0.06
6/7/2005	Band Office	0.08
6/7/2005	School Board	0.09
6/17/2005	Band Office	0.15
6/17/2005	Health Center	0.10

6/17/2005	Gas Bar	0.06
6/17/2005	Chapel Island Water Treatment Plant Treated	0.06
6/28/2005	Health Center	0.07
6/28/2005	Band Office	0.08
6/28/2005	Isaac, Delores	0.09
6/28/2005	Chapel Island Water Treatment Plant Treated	0.07
7/11/2005	Isaac, Norman	0.09
7/11/2005	Health Center	0.52
7/11/2005	School Board	0.08
7/11/2005	Chapel Island Water Treatment Plant Treated	0.05
7/21/2005	Gas Bar	0.07
7/21/2005	Band Office	0.12
7/21/2005	Health Center	0.09
7/21/2005	Chapel Island Water Treatment Plant Treated	0.06
7/29/2005	Isaac, Norman	0.10
7/29/2005	Isaac, Delores	0.08
7/29/2005	Chapel Island Water Treatment Plant Treated	0.06
7/29/2005	Health Center	0.09
8/5/2005	Band Office	0.22
8/5/2005	Health Center	0.59
8/5/2005	Isaac, Delores	0.22
8/5/2005	Chapel Island Water Treatment Plant Treated	0.09
8/8/2005	Marshall, Russell	0.011
8/8/2005	Marshall, Alex	0.013
8/16/2005	Isaac, Delores	0.08
8/16/2005	Isaac, Norman	0.09
8/16/2005	Gas Bar	0.09
8/16/2005	Chapel Island Water Treatment Plant Treated	0.13
8/26/2005	Band Office	0.14
8/26/2005	School Board	0.07
8/26/2005	Isaac, Delores	0.07
8/26/2005	Chapel Island Water Treatment Plant Treated	0.06
8/31/2005	Band Office	0.11
8/31/2005	Health Center	0.08
8/31/2005	Gas Bar	0.09
8/31/2005	Chapel Island Water Treatment Plant Treated	0.07
9/14/2005	Band Office	0.29

	9/14/2005	Health Center	0.11
	9/14/2005	Gas Bar	0.07
	9/14/2005	Chapel Island Water Treatment Plant Treated	0.09
	9/23/2005	Health Center	0.13
	9/23/2005	Isaac, Norman	0.09
	9/23/2005	Isaac, Delores	0.10
	9/23/2005	Chapel Island Water Treatment Plant Treated	0.08
	9/24/2005	Chapel Island Water Treatment Plant Treated	0.09
	10/12/2005	Band Office	0.13
	10/12/2005	Health Center	0.12
	10/12/2005	School Board	0.09
	10/12/2005	Chapel Island Water Treatment Plant Treated	0.09
	10/21/2005	School Board	0.10
	10/21/2005	Health Center	0.09
	10/21/2005	Tousenard, Laurie	0.11
	10/21/2005	Chapel Island Water Treatment Plant Treated	0.09
	11/4/2005	Band Office	0.38
	11/4/2005	Health Center	0.22
	11/4/2005	School Board	0.12
	11/4/2005	Chapel Island Water Treatment Plant Treated	0.07
	12/1/2005	Health Center	0.38
	12/1/2005	Gas Bar	0.08
	12/14/2005	Marshall, Russell	0.08
	12/14/2005	Tousenard, Laurie	0.40
	12/14/2005	Health Center	0.21
	12/14/2005	Marshall, Alex	0.19

Table 13. Arsenic levels from one sample taken in 2005.

Outside Limits	Date	Sample Location	Total Arsenic (mg/L)
	08/29/2005	School	0.014

### *List of References*

ADI Limited, Environmental Baseline Study Of Six Nova Scotia First Nations, November 1999.



Atlantic First Nations Drinking Water Safety Program, Health Canada, FNIHB,  
Community Based Water Monitors Training Package, August 2004.