

R E P O R T

## TOQUAHT FIRST NATION

# Assessment Studies of Water and Wastewater Systems and Associated Water Management Practices at Selected First Nation Communities

# Toquaht Water Results

Site sampled	Date	Positive	TC	FC	OG	Comments		
Robin Tate	2002-03-04	Yes	4		No	Boil advisory still in effect		
Gary Johnsen	2001-11-08	Yes	52	0	Yes	Unsatisfactory		
Gary Johnsen	2001-10-18	No			No		Your file	Votre référence
Gary Johnsen	2001-10-01	No			No			
Gary Johnsen	2001-09-11	No			No		Our file	Notre référence
Gary Johnsen	2001-08-27	No			No			
Gary Johnsen	2001-08-14	Yes	110	12	Yes	Unsatisfactory		
Gary Johnsen	2001-08-02	Yes	11	1	No	Unsat/date not given		
Gary Johnsen	2001-08-01	Yes	7	1	Yes	Unsat/date not given		
Gary Johnsen	2001-07-03	No			No			
Gary Johnsen	2001-06-20	No			No			
Gary Johnsen	2001-06-11	Yes	3	1	No	Boil Advisory still in effect		
Gary Johnsen	2001-05-22	Yes	11	2	No	Unsatisfactory		
Gary Johnsen	2001-03-12	No			No			
Gary Johnsen	2001-02-19	Yes	3	0	No	Boil Advisory still in effect		
Gary Johnsen	2001-01-23	Yes	23	1	No	Unsatisfactory		
Gary Johnsen	1998-12-03	No			No			
Dennis Hetu	1998-11-18	No			No			
Norm Max	1998-11-18	Yes	7	0	No			
Dennis Hetu	1998-10-29	Yes	2	0	No			
Norm Max	1998-10-29	No			No			
Dennis Hetu	1998-10-19	Yes	74	23	No			
Norm Max	1998-10-19	Yes	60	10	No	Unsatisfactory		
Dennis Hetu	1998-10-08	Yes	20	0	Yes	Chlorinate/Boil Advisory, resample		
Norm Max	1998-10-08	Yes	10	0	No			
Norm Max	1998-02-10	Yes	10	0	No	Resample		
Raw water source	1998-02-10	Yes	36	0	Yes	Chlorinated/boil advisory		
Norm Max	1997-04-10	Yes	4	0	No			
Gary Johnsen	1996-11-19	Yes	7	1	No	Resample		
Gary Johnsen	1996-08-26	No			No			
Pumphouse	1996-08-26	No			No			

Total Positive = 19

Total Samples = 31

**% positive = 61**

**Number of samples that exceeded limits = 14**

TC - Total Coliforms (limit 10)  
 FC - Faecal Coliforms (limit 0)  
 OG - Overgrowth of Non-coliforms



ANALYTICAL SERVICES

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ANALYTICAL REPORT  
Form 08098833

Client : HEALTH CANADA  
Project : TOQUAMT NATION + UCLUELET FIRST NATIONS  
Sampling site :  
Submitted by : MELISSA DANIELS

Field ID : 12012507  
Client ID : TOQUAMT FI  
RST NATION

Spaccode	Parameter	Unit	MDL	CDWG	
<b>CHLORINATED PHENOLS</b>					
EXP46Z7	Water Prep for CPs	date			02/03/11
MC02CPWA	2-chlorophenol	mg/L	0.001	—	< 0.001
MC03CPWA	3-chlorophenol	mg/L	0.001	—	< 0.001
MC04CPWA	4-chlorophenol	mg/L	0.001	—	< 0.001
CP01CPWA	2,3-Dichlorophenol	mg/L	0.0001	—	< 0.0001
CP01CPWA	2,4+3,4-DiCIPhenol	mg/L	0.0001	—	< 0.0001
CP02CPWA	2,5-Dichlorophenol	mg/L	0.0001	—	< 0.0001
CP09CPWA	2,6-Dichlorophenol	mg/L	0.0001	—	< 0.0001
CP03CPWA	3,5-Dichlorophenol	mg/L	0.0001	—	< 0.0001
CP03CPWA	2,3,4-Trichlorophenol	mg/L	0.0001	—	< 0.0001
CP04CPWA	2,3,5-Trichlorophenol	mg/L	0.0001	—	< 0.0001
CP05CPWA	2,3,6-Trichlorophenol	mg/L	0.0001	—	< 0.0001
CP06CPWA	2,4,5-Trichlorophenol	mg/L	0.0001	—	< 0.0001
CP07CPWA	2,4,6-Trichlorophenol	mg/L	0.0001	—	< 0.0001
CP04CPWA	3,4,5-Trichlorophenol	mg/L	0.0001	—	< 0.0001
CP02CPWA	2,3,4,5-Tetrachlorophenol	mg/L	0.0001	—	< 0.0001
CP01CPWA	2346+2356-TeCIPhenol	mg/L	0.0001	—	< 0.0001
PO22CPWA	Pentachlorophenol	mg/L	0.0001	—	< 0.0001
<b>SURROGATE RECOVERY</b>					
DD01SURR	CL2 Phenylacetic acid	%		—	109
BR3-CPWA	Tribromophenol	%	40	—	129
<b>HERBICIDES</b>					
EXP9531	Prep for Glyphosate	date			02/03/12
A001P012	AMPA	mg/L	0.05	—	< 0.05
<b>POLYCYCLIC AROMATIC HYDROCARBONS</b>					
EXP946Z4	PAH Extraction-Water	date			02/03/08
PA05MW02	Benzo(a)pyrene	mg/L	0.00001	0.00001	< 0.00001
				Matrix :	Water
				Sampled on:	02/03/04 11:00



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ANALYTICAL REPORT  
 Form 08098833

Client : HEALTH CANADA  
 Project : TOQUAHT NATION + UCLUELET FIRST NATIONS  
 Sampling site :  
 Submitted by : MELISSA DANIELS

Plant ID : 12012907  
 Client ID : TOQUAHT FI  
 EST NATION

Spreadsheets	Parameter	Unit	MDL	CDWG	
<b>NITROGEN</b>					
11081351	Ammonia Nitrogen (N)	mg/L	0.005	—	< 0.005
1110CALC	Nitrate Nitrogen Dissolved (N)	mg/L		10.0	0.04
11091350	Nitrate+Nitrite (N)	mg/L	0.02	10.0	0.04
11111354	Nitrite Nitrogen (N)	mg/L	0.005	1.0	< 0.005
<b>SULFATE</b>					
11211405	Sulfate	mg/L	0.5	< 500	2.4
<b>METALS TOTAL</b>					
Al-T0031	Aluminum	mg/L	0.02	—	0.04
Sb-TMS31	Antimony	mg/L	0.001	—	< 0.001
As-TMS31	Arsenic	mg/L	0.001	0.025	< 0.001
Ba-T0031	Barium	mg/L	0.001	1.0	0.011
B-TO031	Boron	mg/L	0.008	5.0	< 0.008
Cd-T0031	Cadmium	mg/L	0.002	0.005	< 0.002
Ca-T0031	Calcium	mg/L	0.05	—	8.15
Cr-T0031	Chromium	mg/L	0.005	0.05	< 0.005
Co-T0031	Cobalt	mg/L	0.005	—	< 0.005
Cu-T0031	Copper	mg/L	0.005	1.0	0.041
Fe-T0031	Iron	mg/L	0.005	0.5	0.034
Pb-TMS31	Lead	mg/L	0.0005	0.01	0.0008
Mg-T0031	Magnesium	mg/L	0.05	—	1.34
Mn-T0031	Manganese	mg/L	0.001	0.05	0.002
Hg-T0310	Mercury	mg/L	0.00005	0.001	0.00006
Mo-T0031	Molybdenum	mg/L	0.005	—	< 0.005
Ni-T0031	Nickel	mg/L	0.008	—	< 0.008
K_T0031	Potassium	mg/L	1	—	< 1
Se-TMS31	Selenium	mg/L	0.001	0.01	< 0.001
Ag-T0031	Silver	mg/L	0.01	—	< 0.01
Na_T0031	Sodium	mg/L	0.05	200	2.89
U-TLLM8	Uranium	mg/L	0.00001	0.1	0.00002
V-T0031	Vanadium	mg/L	0.005	—	< 0.005
Zn-T0031	Zinc	mg/L	0.005	5.0	0.014

Matrix : Water  
 Sampled on: 02/03/04 11:00

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ANALYTICAL SERVICES

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ANALYTICAL REPORT  
Form 08098833

Client : HEALTH CANADA  
Project : TOQUAHT NATION + UCLUELET FIRST NATIONS  
Sampling site :  
Submitted by : MELISSA DANIELS

Philip ID : 12012507  
Client ID : TOQUAHT FI  
RST NATION

Spec Code	Parameter	Unit	MDL	CDWG	
<b>PHYSICAL</b>					
00041220	pH	pH units	0.1	6.5-8.5	6.6
00021300	Color True	Col. Unit	5	15	5
00111160	Specific Conductance	uS/cm	1	---	64
8CCALC	Computed Conductance	uS/cm	---	---	68
CCPDCALC	Conductance % Diff.	%	---	---	6.4
00081071	Residue Nonfilterable (TSS)	mg/L	4	---	< 4
007H1035	Residue Filterable 1.0u (TDS)	mg/L	10	500	38
CTDSCALC	Computed TDS	mg/L	---	---	35
TDSRCALC	TDS % Diff.	%	---	---	-8.6
00191140	Turbidity	NTU	0.10	1.0	0.30
0107CALC	Hardness Total -T	mg/L	---	500	25.9
<b>GENERAL INORGANICS</b>					
01011211	Alkalinity Phen. 8.3 as CaCO3	mg/L	1	---	< 1
01021210	Alkalinity Total as CaCO3	mg/L	1	---	27
CO3-CALC	Carbonate as CO3=	mg/L	---	---	< 0.5
HCO3CALC	Bicarbonate as HCO3-	mg/L	---	---	32.9
OH-CALC	Hydroxide as OH-	mg/L	---	---	< 0.5
2105ANM	Cyanide(SAL) + Thiocyanate	mg/L	0.0005	0.2	0.0013
0125LHS	Sulfide Total	mg/L	0.005	0.05	< 0.005
<b>ANIONS</b>					
11061334	Chloride Dissolved	mg/L	0.5	< 250	3.7
11061341	Fluoride Dissolved	mg/L	0.01	1.5	0.02
IonCALC	Ion Balance	%	---	---	-3.1
ANNCALC	Total Anions	meq/L	---	---	0.70
CatCALC	Total Cations	meq/L	---	---	0.65
LangCALC	Langelier Index	pH units	---	---	-2.5
pHSACALC	Saturation pH	pH units	---	---	9.1
<b>CARBON</b>					
01030912	Organic Carbon - Total	mg/L	0.5	---	0.7

Matrix : Water  
Sampled on: 02/03/04 11:00

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