

**ASSESSMENT STUDY OF WATER AND WASTEWATER SYSTEMS
AND ASSOCIATED WATER MANAGEMENT PRACTICES
KITAMAAT FIRST NATION KITAMAAT IR NO. 2**

For

**Indian and Northern Affairs Canada
British Columbia Region**

By

**UMA Engineering Ltd.
3030 Gilmore Diversion
Burnaby, British Columbia
V5G 3B4**

February 2002

**UMA Engineering Ltd.
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Assessment Study of Water and Wastewater Systems
Kitamaat First Nation Kitamaat IR No. 2

Appendix D

WATER TESTING RESULTS

(CHEMICAL/PHYSICAL/BACTERIOLOGICAL)
WITH COMPARISONS TO THE
GUIDELINES FOR CANADIAN DRINKING WATER QUALITY (GCDWQ)

Page(s) 003814 to\à 003814

Is(are) under consultation



BAND WATER SUPPLY INFORMATION RECORD

BAND NAME: Kitameet Village DISTRICT: COASTAL DATE: DEC. 2000

1. COMMUNITY SYSTEMS

System Name	Source/Type	Number of Homes	Category & Reason	Chem Sampling Freq.	Bact Sampling Freq.	Boil Advisory?	Other Advisory?	Treatment Plant	Maintenance Concerns
Kitameet Village	Groundwater 2 wells 16-18 meters	≈ 180	4	1/3-5 yrs.	1/month	0	0	Chlorination	0

Notes: Source/Type - Indicate surface or groundwater.

Chem Sampling Frequency: State annually, once every 2,3 years etc.

Bact Sampling Frequency: State weekly, by-weekly or monthly

Other Advisory: eg. Bottled water due to high arsenic

Maintenance Concerns: Indicate if this is a treatment plant concern or system infrastructure concern (or both)

2. INDIVIDUAL SYSTEMS

# Wells	# Hold Tanks	# Other	Number of Category 1 & 2	Chem Sampling Frequency	Bact Sampling Frequency	Number on Boil Advisory	Number with Other Advisory
0	—	—	—	—	—	0	0

Notes: Chem Sampling Frequency: Every 5 years, Yearly, Only When New, On Demand

Bact Sampling Frequency: Yearly, Only When New, On Demand

Other Advisory: eg. Bottled water due to high arsenic etc.

Contact:

Zeno - 250-632-4638



CHEMICAL ANALYSIS REPORT

Date: April 30, 2001

ALS File No. M8010

Report On: Kitamaat Village Hiasla
Water Analysis

Report To: **Kitamaat Village Health Centre**
PO.Box 1041
Kitamaat Village
Kitamaat, BC
V0T 2B0

Attention: **Ms. Marry Nyce**

Received: March 27, 2001

ALS ENVIRONMENTAL

per:

Can Dang, B.Sc. - Project Chemist
Joanne Patrick, B.Sc. - Project Chemist

cc: Lesley K. Moody, EHO
Health Canada - Terrace.

File No. M8010

RESULTS OF ANALYSIS - Water



Sample ID	Hiasla FN Kitamaat
Sample Date	01 03 26
Sample Time	12:00
ALS ID	1

Physical Tests

Total Dissolved Solids		14
Hardness	CaCO3	17.0
pH		7.48

Total Metals

Aluminum	T-Al	<0.005
Antimony	T-Sb	<0.2
Arsenic	T-As	<0.0001
Barium	T-Ba	0.017
Beryllium	T-Be	<0.005
Boron	T-B	<0.05
Cadmium	T-Cd	<0.0002
Calcium	T-Ca	5.77
Chromium	T-Cr	<0.001
Cobalt	T-Co	<0.01
Copper	T-Cu	0.169
Iron	T-Fe	<0.03
Lead	T-Pb	<0.001
Magnesium	T-Mg	0.64
Manganese	T-Mn	<0.001
Mercury	T-Hg	<0.00005
Molybdenum	T-Mo	<0.03
Nickel	T-Ni	<0.05
Potassium	T-K	0.57
Selenium	T-Se	<0.001
Silver	T-Ag	<0.0001
Sodium	T-Na	<2
Thallium	T-Tl	<0.0001
Uranium	T-U	<0.00001
Zinc	T-Zn	0.008

Results are expressed as milligrams per litre except for pH, Colour (CU), Conductivity (umhos/cm), and Turbidity (NTU).
< = Less than the detection limit indicated.
EPH = Extractable Petroleum Hydrocarbons.
EPH10-19 is equivalent to EHw10-19.

003817

File No. M8010

Appendix 2 - METHODOLOGY - Continued



Polycyclic Aromatic Hydrocarbons in Water

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510, 3630 & 8270, published by the United States Environmental Protection Agency (EPA). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene prior to analysis by capillary column gas chromatography with mass spectrometric detection (GC/MS).

Recommended Holding Time:

Sample: 7 days Extract: 40 days

Reference: EPA

For more detail see ALS Environmental "Collection & Sampling Guide"

Extractable Hydrocarbons in Water

This analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Extractable Petroleum Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The procedure involves extraction of the entire water sample with dichloromethane. The extract is then solvent exchanged to toluene and analysed by capillary column gas chromatography with flame ionization detection (GC/FID). EPH results include Polycyclic Aromatic Hydrocarbons (PAH) and are therefore not equivalent to Light and Heavy Extractable Petroleum Hydrocarbons (LEPH/HEPH).

Recommended Holding Time:

Sample: 7 days Extract: 40 days

Reference: BCMELP

For more detail see ALS Environmental "Collection & Sampling Guide"

Polychlorinated Dibenzodioxins and Dibenzofurans in Water

This analysis is performed in accordance with Environmental Protection Series, Reference Method for Determination of Polychlorinated Dibenzo-para-dioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) in Pulp and Paper Effluents. Report EPS 1/RM/19 February 1992. The final extract is analysed by high resolution gas chromatography with high resolution mass spectrometric detection.

Note: Dioxin and Furan analysis is subcontracted.

Polychlorinated Biphenyls in Water

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Methods 3510, 3620, 3660, 3665 & 8082, published by the United States Environmental Protection Agency (EPA). The procedure involves a liquid-liquid extraction of the entire water sample using dichloromethane. The extract is then solvent exchanged to hexane followed by one or more of the following clean-up procedures (if required): florisil clean-up, sulphur clean-up and/or sulphuric acid clean-up. The final extract is analysed by capillary column gas chromatography with electron capture detection (GC/ECD).

Recommended Holding Time:

Sample: 7 days Extract: 40 days

Reference: EPA

File No. M8010

Appendix 2 - METHODOLOGY - Continued



For more detail see ALS Environmental "Collection & Sampling Guide"

End Of Report



APPENDIX

**RESULTS OF
SUBCONTRACTED
ANALYSES**

**ANALYSIS REPORT
POLYCHLORINATED DIBENZODIOXINS AND DIBENZOFURANS**

DX001A

CLIENT SAMPLE I.D.:	LAB BLANK	AXYS FILE:	WG4230-101 i
CLIENT:	ALS	DATE:	16-Apr-2001
CLIENT NO.:	2515	METHOD NO.:	DX-E-02/Ver.4
SAMPLE TYPE:	Blank	INSTRUMENT:	GC-HRMS
SAMPLE SIZE:	1.00 L	CONCENTRATION IN:	pg/L
% Moisture:	N/A		

Dioxins	Concentration	(SDL)	Furans	Concentration	(SDL)
▷ T4CDD - Total	1.1	1.0	T4CDF - Total	ND	1.0
2,3,7,8	ND	1.0	2,3,7,8	ND	1.0
P5CDD - Total	ND	2.0	P5CDF - Total	ND	2.0
1,2,3,7,8	ND	2.0	1,2,3,7,8	ND	2.0
			2,3,4,7,8	ND	2.0
H6CDD - Total	ND	2.0	H6CDF - Total	ND	2.0
1,2,3,4,7,8	ND	2.0	1,2,3,4,7,8	ND	2.
1,2,3,6,7,8	ND	2.0	1,2,3,6,7,8	ND	2.0
1,2,3,7,8,9	ND	2.0	2,3,4,6,7,8	ND	2.0
			1,2,3,7,8,9	ND	2.0
H7CDD - Total	ND	2.0	H7CDF - Total	ND	2.0
1,2,3,4,6,7,8	ND	2.0	1,2,3,4,6,7,8	ND	2.0
			1,2,3,4,7,8,9	ND	2.0
▷ O8CDD	8.9	5.0	O8CDF	ND	5.0

Surrogate Standards % Recovery

13C-T4CDF	48
13C-T4CDD	48
13C-P5CDF	45
13C-P5CDD	52
13C-H6CDF	52
13C-H6CDD	49
13C-H7CDF	43
13C-H7CDD	44
13C-O8CDD	37

2,3,7,8 - TCDD TEQs (Using NATO I-TEFs)

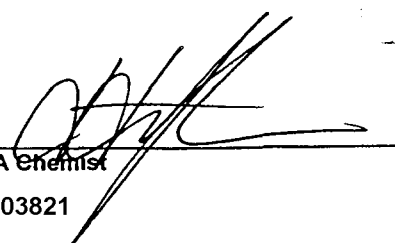
2,3,7,8 - TCDD TEQs (ND=1/2 DL) = 2.34 pg/L
 2,3,7,8 - TCDD TEQs (ND=0) = 0.01 pg/L

1. SDL = Sample Detection Limit
2. ND = Not detected
3. NDR = Peak detected but did not meet quantification criteria
4. Concentrations are recovery corrected.

Approved: _____

QA Chemist

003821



ANALYSIS REPORT
POLYCHLORINATED DIBENZODIOXINS AND DIBENZOFURANS

DX001A


CLIENT SAMPLE I.D.:	M8010-1	AXYS FILE:	L3321-1
CLIENT:	ALS	DATE:	16-Apr-2001
CLIENT NO.:	2515	METHOD NO.:	DX-W-02/Ver.4
SAMPLE TYPE:	Water	INSTRUMENT:	GC-HRMS
SAMPLE SIZE:	0.991 L	CONCENTRATION IN:	pg/L

Dioxins	Concentration	(SDL)	Furans	Concentration	(SDL)
T4CDD - Total	ND	1.0	T4CDF - Total	ND	1.0
2,3,7,8	ND	1.0	2,3,7,8	ND	1.0
P5CDD - Total	ND	2.0	P5CDF - Total	ND	2.0
1,2,3,7,8	ND	2.0	1,2,3,7,8	ND	2.0
			2,3,4,7,8	ND	2.0
H6CDD - Total	ND	2.0	H6CDF - Total	ND	2.0
1,2,3,4,7,8	ND	2.0	1,2,3,4,7,8	ND	2.0
1,2,3,6,7,8	ND	2.0	1,2,3,6,7,8	ND	2.0
1,2,3,7,8,9	ND	2.0	2,3,4,6,7,8	ND	2.0
			1,2,3,7,8,9	ND	2.0
H7CDD - Total	ND	2.0	H7CDF - Total	ND	2.0
1,2,3,4,6,7,8	ND	2.0	1,2,3,4,6,7,8	ND	2.0
			1,2,3,4,7,8,9	ND	2.0
O8CDD	ND	5.0	O8CDF	ND	5.0

Surrogate Standards	% Recovery
13C-T4CDF	45
13C-T4CDD	45
13C-P5CDF	43
13C-P5CDD	49
13C-H6CDF	51
13C-H6CDD	50
13C-H7CDF	42
13C-H7CDD	42
13C-O8CDD	39

2,3,7,8 - TCDD TEQs (Using NATO I-TEFs)
 2,3,7,8 - TCDD TEQs (ND=1/2 DL) = 2.36 pg/L
 2,3,7,8 - TCDD TEQs (ND=0) = 0.00 pg/L

1. SDL = Sample Detection Limit
2. ND = Not detected
3. NDR = Peak detected but did not meet quantification criteria
4. Concentrations are recovery corrected.

Approved: 
 QA Chemist
 003822

BACTERIOLOGY RESULTS - MEDICAL SERVICES

Results codes:

TC = total coliforms **FC** = fecal coliforms
R = resample due to heavy background growth on plates.
P = sample age >30 hours **B** = background growth present
N = sample time not given **TNTC** = too numerous to count
CFU = colony forming units **MPN** = Most probable number

<u>Lab #</u>	<u>Sample Source</u>	<u>Sampled At</u>	<u>Date</u>	<u>Results</u>	
		<u>mm/dd/yy</u>	<u>(CFU/100 ml)</u>		
1990	[REDACTED] [REDACTED] s.19(1)		Kitamaat Village	08/15/01	TC<1 B FC<1
1991	[REDACTED]		Kitamaat Village	08/15/01	TC<1 B FC<1



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Water Systems for Greater Vancouver & Metro BC Region

3/2/2011

Build Agency > Kitimaat Village > Kitimaat CWS

WATER SOURCES

Water Source Name	Water Source Category	Comments	
Kitimaat Aquifer	Ground Water	2 wells - water taken from same aquifer	

DISTRIBUTION SYSTEM FACILITIES

Facility Name	Facility Number	Comments	
Distribution Water Mains	00007		Edit
Reservoir # 1	00005		Edit
Reservoir # 2	00006		Edit

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Water Systems for Health Canada & HAO, BC Region

Acc

Build Agency > Kitimaat Village > Kitimaat CWS > Distribution Water Mains

DISTRIBUTION SYSTEM SAMPLING POINTS

Sampling Point Name	Sampling Point ID	Sampling Point Number	Comments	Add a
s.19(1)	00007-00005-MD	00005		Edit
Daycare	00007-00003-MD	00003		Edit
Health Centre	00007-00004-MD	00004		Edit
Random Sampling Point	00007-00001-MD	00001		Edit
School	00007-00002-MD	00002		Edit
s.19(1)	00007-00006-MD	00006		Edit

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File No. M8010

RESULTS OF ANALYSIS - Water



Sample ID	Hiasla FN
Sample Date	Kitamaat 01 03 26
Sample Time	12:00
ALS ID	1

Non-halogenated Volatiles

Benzene	<0.0005
Ethylbenzene	<0.0005
Toluene	<0.0005
meta- & para-Xylene	<0.0005
ortho-Xylene	<0.0005
Volatile Hydrocarbons (VH6-10)	<0.1
VPH ¹	<0.1

Polycyclic Aromatic Hydrocarbons

Acenaphthene	<0.00005
Acenaphthylene	<0.00005
Acridine	<0.00005
Anthracene	<0.00005
Benz(a)anthracene	<0.00005
Benzo(a)pyrene	<0.00001
Benzo(b)fluoranthene	<0.00005
Benzo(g,h,i)perylene	<0.00005
Benzo(k)fluoranthene	<0.00005
Chrysene	<0.00005
Dibenz(a,h)anthracene	<0.00005
Fluoranthene	<0.00005
Fluorene	<0.00005
Indeno(1,2,3-c,d)pyrene	<0.00005
Naphthalene	<0.00005
Phenanthrene	<0.00005
Pyrene	<0.00005

Extractable Hydrocarbons

EPH10-19	<0.3
EPH19-32	<1

Chlorinated Hydrocarbons^{2,3}

Polychlorinated Dibenzofurans	Appendix
Polychlorinated Dioxins	Appendix

Polychlorinated Biphenyls

Total Polychlorinated Biphenyls	<0.001
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Results are expressed as milligrams per litre except for pH, Colour (CU), Conductivity (umhos/cm), and Turbidity (NTU).

< = Less than the detection limit indicated.

EPH = Extractable Petroleum Hydrocarbons.

EPH10-19 is equivalent to EHw10-19.

¹VPH = Volatile Petroleum Hydrocarbons.

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Appendix 1 - REGULATORY CRITERIA

Health Canada



Guidelines for Canadian Drinking Water Quality, Sixth Ed., 1996.
 All limits are Maximum Acceptable Concentration (MAC) unless otherwise indicated.
 Limits expressed as milligrams per litre except pH, Turbidity, Colour, and Coliform Bacteria.

		Lower Limit	Upper Limit		Notes
Physical Tests					
Total Dissolved Solids		-	500	mg/L	1
Hardness	CaCO ₃	-	-		2
pH		6.5	8.5		1
Total Metals					
Arsenic	T-As	-	0.025	mg/L	3
Barium	T-Ba	-	1	mg/L	
Boron	T-B	-	5	mg/L	3
Cadmium	T-Cd	-	0.005	mg/L	
Chromium	T-Cr	-	0.05	mg/L	
Copper	T-Cu	-	1	mg/L	1, 4
Iron	T-Fe	-	0.3	mg/L	1
Lead	T-Pb	-	0.01	mg/L	4, 5
Manganese	T-Mn	-	0.05	mg/L	1
Mercury	T-Hg	-	0.001	mg/L	
Selenium	T-Se	-	0.01	mg/L	
Sodium	T-Na	-	200	mg/L	1
Uranium	T-U	-	0.1	mg/L	
Zinc	T-Zn	-	5	mg/L	1, 4
Non-halogenated Volatiles					
Benzene		-	0.005	mg/L	
Ethylbenzene		-	0.0024	mg/L	1
Toluene		-	0.024	mg/L	1
meta- & para-Xylene		-	0.3	mg/L	1, 6
ortho-Xylene		-	0.3	mg/L	1, 6
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene		-	0.00001	mg/L	

- 1 Aesthetic Objective (AO) (taste, odour, appearance, etc.)
- 2 Maximum not established, levels > 200 mg/L are considered poor but may be tolerated (AO).
- 3 Interim Maximum Acceptable Concentration (IMAC)
- 4 At point of consumption.
- 5 First drawn water may be high, flush system before sampling(MAC)
- 6 Xylenes (total) should not exceed 0.3 mg/L (AO).

File No. M8010

Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

Solids in Water

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) and total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius, TSS is determined by drying the filter at 104 degrees celsius. Total solids are determined by evaporating a sample to dryness at 104 degrees celsius. Fixed and volatile solids are determined by igniting a dried sample residue at 550 degrees celsius.

Recommended Holding Time:

Sample: 7 days

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

Conventional Parameters in Water

These analyses are carried out in accordance with procedures described in "Methods for Chemical Analysis of Water and Wastes" (USEPA), "Manual for the Chemical Analysis of Water, Wastewaters, Sediments and Biological Tissues" (BCMOE), and/or "Standard Methods for the Examination of Water and Wastewater" (APHA). Further details are available on request.

pH in Water

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

Recommended Holding Time:

Sample:

6 months

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Appendix 2 - METHODOLOGY - Continued



Reference: EPA
For more detail see ALS Environmental "Collection & Sampling Guide"

Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic absorption spectrophotometry (EPA Method 7470A/7471A).

Recommended Holding Time:

Sample: 28 days
Reference: EPA

For more detail see ALS Environmental "Collection & Sampling Guide"

Volatile Organic Compounds and Volatile Hydrocarbons in Water

This procedure involves the purge and trap extraction of the sample prior to analysis for Volatile Hydrocarbons (VH) by capillary column gas chromatography with flame-ionization detection (GC/FID) and for specific Volatile Organic Compounds (VOC) by capillary column gas chromatography with mass spectrometric detection (GC/MS). The VH analysis is carried out in accordance with the British Columbia Ministry of Environment, Lands and Parks (BCMELP) Analytical Method for Contaminated Sites "Volatile Hydrocarbons in Water by GC/FID" (Version 2.1, July 1999). The VOC analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 8260, published by the United States Environmental Protection Agency (EPA).

Recommended Holding Time:

Sample: 7 days Extract: NA
Reference: BCMELP

For more detail see ALS Environmental "Collection & Sampling Guide"

Volatile Petroleum Hydrocarbons (VPH) in Water

These results are determined according to the British Columbia Ministry of Environment, Lands, and Parks Analytical Method for Contaminated Sites "Calculation of Volatile Petroleum Hydrocarbons in Solids or Water" (Version 2.1, July 20, 1999). According to this method, the concentrations of specific Monocyclic Aromatic Hydrocarbons (Benzene, Toluene, Xylenes) are subtracted from the collective concentration of Volatile Hydrocarbons (VH) that elute between n-hexane (nC6) and n-decane (nC10). Analysis of Volatile Hydrocarbons adheres to all prescribed elements of BCMELP method "Volatile Hydrocarbons in Water by GC/FID" (Version 2.1, July 20, 1999).

Recommended Holding Time: Not Applicable



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Water Systems for Health Canada & PHAC - BC Region

2/27

Build Agency > Kitimaat Village > Kitimaat CWS > Kitimaat Aquifer > Well # 2/pumphouse # 2

MAP WATER SAMPLING POINTS

Sampling Point Name	Sampling Point ID	Sampling Point Number	Comments	Add a
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Assessment Study of Water and Wastewater Systems
Kitamaat First Nation Kitamaat IR No. 2

Appendix E

WASTEWATER TESTING RESULTS

(CHEMICAL/PHYSICAL/BACTERIOLOGICAL)
WITH COMPARISONS TO THE
*GUIDELINES FOR EFFLUENT QUALITY AND WASTEWATER TREATMENT AT FEDERAL
ESTABLISHMENTS*

Vii