

**ASSESSMENT STUDY OF WATER AND WASTEWATER SYSTEMS  
AND ASSOCIATED WATER MANAGEMENT PRACTICES  
KITSELAS FIRST NATION, GITAU IR NO. 1 AND KULSPAI IR NO. 6**

**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.  
Third Part Disclaimer**

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**Assessment Study of Water and Wastewater Systems  
Kitselas First Nation Kitselas IR No. 1 & IR No. 6**

## **Appendix D**

# **WATER TESTING RESULTS**

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



Health Santé  
Canada Canada

729-2nd Avenue, Prince Rupert, B. C. V8J 1H4 Tel: (250) 627-3060 Fax: (250) 627-4258

HEALTH CANADA  
FIRST NATIONS & INUIT HEALTH BRANCH  
COASTAL DISTRICT

Date: Sept 24, 2001

FAX: 666-5159

To/Destinataire: Nattikela

From/Expéditeur: Lise Fish, C.P.H.L (C) Environmental Health Officer  
e-mail: lise\_fish@hc-sc.gc.ca

Subject/Objet: Kitselas (Kitselas (Therashill H<sub>2</sub>O) + Gitans .

COMMENTS/COMMENTAIRES:

17 pages - Kitselas

+ 2 pages Gitwagah

+ 4 pages Giardia/Crypto for Geoff

PAGES TO FOLLOW 24

Original Mailed

Yes

No



**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

Lab #	Sample Source	Sampled At	Date	Results
			mm/dd/yy	(CFU/100 ml)
439	[REDACTED]	s.19(1)	Gitaus	3/01/01
				TC<1 B FC<1
440	[REDACTED]	s.19(1)	Gitaus	3/01/01
				TC<1 B FC<1
711	[REDACTED]	s.19(1)	Gitaus	4/03/01
				TC<1 FC<1
712	[REDACTED]	s.19(1)	Gitaus	4/03/01

Charles Armstrong  
 Lab Manager

**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

Lab #	Sample Source	Sampled At	Date	Results (CFU/100 ml)
257	[REDACTED]	s.19(1)	Gitaus	02/06/01 TC<1 B FC<1
258	[REDACTED]	s.19(1)	Gitaus	02/06/01 TC<1 B FC<1 tap, 5552 Gitaus Sub.
259	[REDACTED]	s.19(1)	Gitaus	02/06/01 TC<1 B FC<1 kitchen tap
401	Band Office		Kitselas	2/23/01 TC<1 FC<1

**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

Lab #	Sample Source	Sampled At mm/dd/yy	Date (CFU/100 ml)	Results
2172	[REDACTED]	s.19(1)	Kitselas	10/11/00
	4517 Queensway			TC<1 FC<1 P
2173	[REDACTED]	s.19(1)	Kitselas	10/11/00
	4597 Queensway			TC<1 FC<1 P
2174	[REDACTED]	s.19(1)	Kitselas	10/11/00
	4597 Queensway			TC<1 FC<1 P

Charles Armstrong  
 Lab Manager

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

#	Sample Source	Sampled At mm/dd/yy	Date (City, State)	Results
2484	[REDACTED]	s.19(1)	Kitselas	11/20/00 TC<1 FC<1 5524 Gitaus
2485	[REDACTED]	s.19(1)	Kitselas	11/20/00 TC<1 FC<1 lot 10 Gitaus Sub
2487	[REDACTED]	s.19(1)	Kitselas	11/20/00 TC<1 B FC<1 lot 10 Gitaus Sub
2488	[REDACTED]	s.19(1)	Kitselas	11/20/00 TC<1 FC<1 5524 Gitaus

**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

Lab #	Sample Source	Sampled At	Date	Results
			mm/dd/yy	(CFU/100 ml)
835	[REDACTED]	s.19(1)	Kitelas	04/18/01
	4571 Queensway			
				TC < 1 FC < 1
1959	[REDACTED]	s.19(1)	Gitaus sub.	08/14/01      TC
				TNTC FC 79

1960	[REDACTED]	s.19(1)	5552 Gitaus sub	08/14/01      TC
				R FC < 1
1961	[REDACTED]	s.19(1)	5552 Gitaus sub	08/14/01
				TC < 1 B FC < 1

**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

Lab #	Sample Source	Sampled At mm/dd/yy	Date	Results (CFU/100 ml)
2004	Band Office-Queensway		Kitselas	09/21/00 TC<1 FC<1
2005	Community Hall		Kitselas	09/21/00 TC<1 FC<1
1932	[REDACTED]	s.19(1)	Old Kitselas	09/12/00      TC 6 B FC<1 B P

Charles Armstrong  
 Lab Manager

**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

Lab #	Sample Source	Sampled At mm/dd/yy	Date (CFU/100 ml)	Results
	s.19(1)			
1933		Kulspai 1577	09/12/00	TC
TNTC	FC TNTC	(Kitselas?) (Community not given)		P

Charles Armstrong  
Lab Manager

**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

Lab #	Sample Source	Sampled At mm/dd/yy	Date	Results (CFU/100 ml)
2314	[REDACTED]	s.19(1)	Kitselas	10/25/00
TNTC	FC 2 B P #5544 Gitaus			TC
2315	[REDACTED]	s.19(1)	Kitselas	10/25/00
TC < 1	FC < 1 P #5544 Gitaus			

Charles Armstrong  
 Lab Manager

**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>
439	[REDACTED]	s.19(1)	Gitau	3/01/01
	TC<1 B FC<1			
440	[REDACTED]	s.19(1)	Gitau	3/01/01
	TC<1 B FC<1			

Charles Armstrong  
 Lab Manager

2006 [redacted] s.19(1)  
TC<1 FC<1

(Kitselas?) ✓

09/21/00

(Community not given)

2007 Esso Str.-Old Lakelse Dr.  
TC<1 FC<1

Thornhill

09/21/00

on paper  
(Received 09/21/00)

2008 [redacted] s.19(1)  
TC<1 FC<1

(Kitselas?) ✓  
(community not given)

09/21/00

Charles Armstrong  
Lab Manager

**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

#	Sample Source	Sampled At mm/dd/yy	Date	Results (CFU/100 ml)
2609	[REDACTED]	s.19(1)	Endudoon	12/04/00
	TC<1 FC<1 (Kitselas)			

**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
- M = sample time not given                      TNTC = too numerous to count
- CFU = colony forming units                      MPN = Most probable number

Lab Sample Number	Sampled At	Date	Results
#	mm/dd/yy	(CFU/100 ml)	
2486	s.19(1)	Kitselas	11/20/00
TC<1 B FC<1			
5540 Gitau			

**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

Lab #	Sample Source	Sampled At mm/dd/yy	Date (CFU/100 ml)	Results
2640	[REDACTED]	s.19(1)	Kitselas	12/04/00
	1520 Kulspai			TC<1 FC<1 P
2641	[REDACTED]	s.19(1)	Kitselas	12/04/00
				TC<1 FC<1 P

Lab #	Sample Source	Sampled At mm/dd/yy	Date (MPN/100 ml)	Results
2344	[REDACTED]	s.19(1)	Kitselas	10/31/00

TC<1.1 FC<1.1  
 tap #5544 Gitaus

wpd

Page 2

402 AquaClear Bottled water  
R FC<1

Kitselas

2/23/01

TC

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Charles Armstrong  
Lab Manager

July 13, 2000

To: Margaret Wells, Kitselas

From: Lise Fish, EHO  
Prince Rupert

Hello Margaret. Three things.

- 1) I am attaching the sample results from last week for your records. You probably want to keep a copy. I sent a copy to the Regional District.
- 2) Cheryl Jongewaard is in Kitselas today and I asked her to drop off one dozen containers for you. Check at the front desk if you don't see them.
- 3) The Regional District would like you to put the exact address on samples rather than just the occupant's name. I think this is a good idea as it will let them pinpoint problems more quickly.

That's it for now. Call if you have any questions. (250)6273060

Lise

1208	[REDACTED] Kitselas	07/05/00	TC<1 FC<1
	Kulspai Cres. - sample taken after hydrant flushed		
1209	[REDACTED] Kitselas	07/05/00	TC<1 FC<1
	Kulspai Cres. - after hydrants flushed		
1210	[REDACTED] Kitselas	07/05/00	TC<1 FC<1
	Kulspai Cres.- after hydrants flushed		
1211	[REDACTED] <b>s.19(1)</b> Kitselas	07/05/00	TC<1 FC<1
	Kulspai Cres. - after hydrants flushed		

## MEMORANDUM

**TO:** Billy Wong, Gitwangak Band  
Tony Mise, Band Administrator

**FROM:** Lise Fish  
Environmental Health Officer  
Health Canada 729 2<sup>nd</sup>. Avenue West  
Prince Rupert, B.C. V8J 1H4

**Phone:** (250)627-3060  
**Fax:** (250)627-4258

s.19(1)

**RE: WATER RESULTS**

Carol Maitland left me a message this morning stating that she had a positive result from a sample taken from [redacted] residence. A second sample she took from a different area in the village was fine. Single positive samples are difficult to interpret because they may be caused by dirt on the tap or other interference. Because it is Friday, [redacted] she has told [redacted] to boil his water for the weekend. She also tells me she has a large bottle of water that he can use.

Normally we would ask that the hydrants be flushed when samples are positive, but this is not a good thing to do during the winter unless it is absolutely necessary. As you know, hydrant flushing results in excessive amounts of water pouring onto streets. In cold weather, the water then turns to ice.

We have agreed that Carol will take five water samples from various locations in Kitwanga on Monday. I am planning to be in Gitanyow late Monday morning, and hope to stop in Kitwanga afterwards. I will take additional samples for the laboratory.

I wanted to let you know what's happening. If you have any questions please call me at (250)627-3060.



Lise

**MEMO**

To: Billy Wong, Maintenance  
Kitwanga

From: Lise Fish, Environmental Health Services  
Health Canada

**RE: HYDRANT FLUSHING**

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We received a sample which Carol took from [REDACTED] s.19(1) house on February 22, 2000. Results from this sample are unsatisfactory and Carol will be advising them to boil their water. She will be taking another sample. A second sample taken from the school was good.

Could you please flush the hydrant closest to [REDACTED] s.19(1) house so that we can clear the line out. Once you have done this, could you please let Carol know so that she can resample.

Thanks Billy.

Please call if you have any questions. (250)627-3060

LABORATORY REPORT OF WATER FILTER ANALYSIS  
PRINCE GEORGE WATER ASSAY  
PO Box 2832 Station B  
Prince George, BC V2N 4T6

CONFIDENTIAL

To: Environmental Services  
Health Canada, Medical Services Branch  
220 - 177 Victoria Street  
Prince George, BC V2S 5R8

Sample Number: 278

Examination for *Giardia* cysts and *Cryptosporidium* oocysts using the procedures which are described in section 9711B of Standard Methods 19th Ed., 1995.

Date of Sample: 07/26/2001

Sample Source: Metlakatla, Tsook Lake

Sample Site: Raw water, Water Treatment Plant

Sample sent by: Lise Fish

Volume Filtered: 292 litres

Date & Time Received: 07/27/2001

Date Processed / Preserved: 07/27/2001

Condition of Filter: Good. It was shipped in 250 ml of residual water.

Filter Type:  Filterite  Cotton

Slides Analysed: 1 = 50 Litres

Temperature on Receipt:  < 5 °C,  5 - 10 °C,  10 - 20 °C,  > 20 °C

Observations:

- Debris present: 1.5 ml of dark-brown sediment was obtained from the filter.
- Algae: A large number of species, each quite abundant, was noted.
- Other: Aquatic arthropods, conidia and nematode were observed also.

*Giardia* Result:  Positive  Presumptive  Negative

*Cryptosporidium* Result:  Positive  Presumptive  Negative

Summary and Conclusion: No presumptive or confirmed *Giardia* cysts or confirmed or presumptive *Cryptosporidium* oocysts were found.

Results Certified by: CH Jarosch  
C.H. Jarosch  
Prince George Water Assay

Date: August 17, 2001

LABORATORY REPORT OF WATER FILTER ANALYSIS  
PRINCE GEORGE WATER ASSAY

PO Box 2832 Station B  
Prince George, BC V2N 4T6

CONFIDENTIAL

To: Environmental Services  
Health Canada, Medical Services Branch  
220 - 177 Victoria Street  
Prince George, BC V2S 5R8

Sample Number: 275

Examination for *Giardia* cysts and *Cryptosporidium* oocysts using the procedures which are described in section 9711B of Standard Methods 19th Ed., 1995.

Date of Sample: 07/24/2001

Sample Source: Hartley Bay intake - 2nd Falls, Hartley Bay

Sample Site: Treated Water, Hose Bib @ [REDACTED] s.19(1)

Sample sent by: Lise Fish

Volume Filtered: 299 litres

Date & Time Received: 07/27/2001

Date Processed / Preserved: 07/27/2001

Condition of Filter: Good. It was shipped in 400 ml of residual water.

Filter Type:  Filterite  Cotton Slides Analysed: 1 = 100 Litres

Temperature on Receipt:  < 5 °C,  5 - 10 °C,  10 - 20 °C,  > 20 °C

Observations:

- Debris present: 0.25 ml of light grey sediment was obtained from the filter.
- Algae: Algal cells were scarce.
- Other: A few pollen grains, nematodes and fragments of plant cells were observed.

*Giardia* Result:  Positive  Presumptive  Negative

*Cryptosporidium* Result:  Positive  Presumptive  Negative

Summary and Conclusion: No presumptive or confirmed *Giardia* cysts or confirmed or presumptive *Cryptosporidium* oocysts were found.

Results Certified by: Conrad Jarosch Date: August 13, 2001  
C.H. Jarosch  
Prince George Water Assay

62 / 4258

LABORATORY REPORT OF WATER FILTER ANALYSIS  
PRINCE GEORGE WATER ASSAY  
PO Box 2832 Station B  
Prince George, BC V2N 4T6

CONFIDENTIAL

To: Environmental Services  
Health Canada, Medical Services Branch  
220 - 177 Victoria Street  
Prince George, BC V2S 5R8

Sample Number: 274

Examination for *Giardia* cysts and *Cryptosporidium* oocysts using the procedures which are described in section 9711B of Standard Methods 19th Ed., 1995.

Date of Sample: 07/26/2001

Sample Source: Metlakatla, Tsook Lake

Sample Site: Treated water, Water Treatment Plant

Sample sent by: Ed Robinson

Volume Filtered: 302 litres

Date & Time Received: 07/27/2001

Date Processed / Preserved: 07/27/2001

Condition of Filter: Good. It was shipped in 380 ml of residual water.

Filter Type:  Filterite  Cotton

Slides Analysed: 1 = 100 Litres

Temperature on Receipt:  < 5 °C,  5 - 10 °C,  10 - 20 °C,  > 20 °C

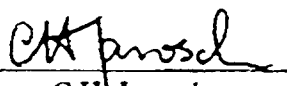
Observations:

- Debris present: 0.5 ml of orange-brown sediment was obtained from the filter.
- Algae: None were found.
- Other: Most of the debris carried over to the filter membrane was amorphous but some intact pollen grains, nematodes, parasite eggs and plant cells were observed.

*Giardia* Result:  Positive  Presumptive  Negative

*Cryptosporidium* Result:  Positive  Presumptive  Negative

Summary and Conclusion: No presumptive or confirmed *Giardia* cysts or confirmed or presumptive *Cryptosporidium* oocysts were found.

Results Certified by:   
C.H. Jarosch  
Prince George Water Assay

Date: August 11, 2001

LABORATORY REPORT OF WATER FILTER ANALYSIS  
PRINCE GEORGE WATER ASSAY  
PO Box 2832 Station B  
Prince George, BC V2N 4T6

CONFIDENTIAL

To: Environmental Services  
Health Canada, Medical Services Branch  
220 - 177 Victoria Street  
Prince George, BC V2S 5R8

Sample Number: 276

Examination for *Giardia* cysts and *Cryptosporidium* oocysts using the procedures which are described in section 9711B of Standard Methods 19th Ed., 1995.

Date of Sample: 07/25/2001

Sample Source: Kitkatla, Kitkatla Lake

Sample Site: treated water, Hose Bib @ Nursing Station

Sample sent by: Lise Fish

Volume Filtered: 281 litres

Date & Time Received: 07/27/2001

Date Processed / Preserved: 07/27/2001

Condition of Filter: Good. It was shipped in just 150 ml of residual water.

Filter Type:  Filterite  Cotton

Slides Analysed: 1 = 100 Litres

Temperature on Receipt:  < 5 °C,  5 - 10 °C,  10 - 20 °C,  > 20 °C

Observations:

-Debris present: A small amount (0.25 to 0.5 ml) of light brown sediment was obtained from the filter.

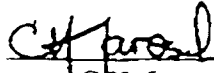
-Algae: Dead algal cells were found but they were not abundant.

-Other: Some remains of amoebae, plant cell fragments, parasite eggs and fungal hyphae were observed also.

*Giardia* Result:  Positive  Presumptive  Negative

*Cryptosporidium* Result:  Positive  Presumptive  Negative

Summary and Conclusion: No presumptive or confirmed *Giardia* cysts or confirmed or presumptive *Cryptosporidium* oocysts were found.

Results Certified by:   
C.H. Jarosch  
Prince George Water Assay

Date: August 14, 2001

LABORATORY REPORT OF WATER FILTER ANALYSIS  
PRINCE GEORGE WATER ASSAY  
PO Box 2832 Station B  
Prince George, BC V2N 4T6

CONFIDENTIAL

To: Environmental Services  
Health Canada, Medical Services Branch  
220 - 177 Victoria Street  
Prince George, BC V2S 5R8

Sample Number: 277

Examination for *Giardia* cysts and *Cryptosporidium* oocysts using the procedures which are described in section 9711B of Standard Methods 19th Ed., 1995.

Date of Sample: 07/24/2001

Sample Source: Hartley Bay intake - 2nd Falls, Hartley Bay

Sample Site: Raw water, Fish Hatchery

Sample sent by: Lise Fish

Volume Filtered: 281 litres

Date & Time Received: 07/27/2001

Date Processed / Preserved: 07/27/2001

Condition of Filter: Good. It was shipped in 280 ml of residual water.

Filter Type:  Filterite  Cotton

Slides Analysed: 1 = 50 Litres

Temperature on Receipt:  < 5 °C,  5 - 10 °C,  10 - 20 °C,  > 20 °C

Observations:

- Debris present: 0.75 ml of sediment was obtained from the filter.
- Algae: Algae (e.g., desmids) were present.
- Other: Plant cells, remains of fungi (hyphae, conidia), crustaceans and a mammal's hair were found also.

*Giardia* Result:  Positive  Presumptive  Negative

*Cryptosporidium* Result:  Positive  Presumptive  Negative

Summary and Conclusion: No presumptive or confirmed *Giardia* cysts or confirmed or presumptive *Cryptosporidium* oocysts were found.

Results Certified by: C.H. Jarosch  
C.H. Jarosch  
Prince George Water Assay

Date: August 16, 2001

**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

Lab #	Sample Source	Sampled At	Date	Results (CFU/100 ml)
444	[REDACTED]	s.19(1)	Gitaus	3/08/01
	TC < 1 FC < 1			
	Received March 6			
445	[REDACTED]	s.19(1)	Gitaus	3/05/01
	TC < 1 B FC < 1			
	Kitchen tap			
446	[REDACTED]	s.19(1)	Gitaus	3/05/01
	TC < 1 B FC < 1			
	Outside tap			
447	[REDACTED]	s.19(1)	Gitaus	3/08/01
	TC < 1 FC < 1			
	Kitchen tap rec'd March 6			
448	[REDACTED]	s.19(1)	Gitaus	3/05/01
	TC < 1 FC < 1			
	Outside			

\*\* TOTAL PAGE.025 \*\*

**Assessment Study of Water and Wastewater Systems  
Kitselas First Nation Kitselas IR No. 1 & IR No. 6**

## **Appendix E**

# **WASTEWATER TESTING RESULTS**

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