

**ASSESSMENT STUDY OF  
WATER AND WASTEWATER SYSTEMS  
AND ASSOCIATED  
WATER MANAGEMENT PRACTICES  
AT KLUSKUS**

**A  
REPORT  
TO  
INDIAN AND NORTHERN AFFAIRS CANADA  
BC REGION**

** NovaTec Consultants Inc.  
*Environmental Engineers and Scientists***

## **Appendix C**

### **Water Testing Results**





# RESULTS OF ANALYSIS - Water

File No. L2651

Sample ID Kluskus  
Sample Date C.S.  
Sample Time Well  
99 11 16  
08:00

### Physical Tests

Colour (CU) 14  
Conductivity (umhos/cm) 137  
Total Dissolved Solids 90  
Hardness CaCO<sub>3</sub> 55.2  
pH 7.86  
Turbidity (NTU) 13.4 ←

### Dissolved Anions

Alkalinity-Total CaCO<sub>3</sub> 65  
Chloride Cl <0.5  
Fluoride F 0.10  
Sulphate SO<sub>4</sub> 2

### Nutrients

Nitrate Nitrogen N 0.1  
Nitrite Nitrogen N <0.1

### Total Metals

Aluminum T-Al 0.013  
Arsenic T-As 0.0020  
Barium T-Ba 0.005  
Boron T-B <0.05  
Cadmium T-Cd <0.0002  
Calcium T-Ca 9.71  
Chromium T-Cr <0.001  
Copper T-Cu 0.002  
Iron T-Fe 3.16 ←  
Lead T-Pb 0.010  
Magnesium T-Mg 7.20  
Manganese T-Mn 0.156 ←  
Mercury T-Hg <0.00005  
Potassium T-K 2.18  
Selenium T-Se <0.001  
Sodium T-Na 6.02  
Uranium T-U 0.00003  
Zinc T-Zn 0.051

Remarks regarding the analyses appear at the beginning of this report.  
Results are expressed as milligrams per litre except for pH, Colour (CU),  
Conductivity (umhos/cm), and Turbidity (NTU).  
< = Less than the detection limit indicated.

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**Is(are) under consultation**

1993 WATER BACTERIOLOGY SUMMARY FOR: Kluskus Band

List of Water Supplies Tested	Total # of Satisfactory Results	Total # of Unsatisfactory Results
Kluskus Community Well	4	0

Water Sample Identification	Date Sampled	Total Coliform	Fecal Coliform	General Bacterial Population
Kluskus Health Centre	Oct 5	0	0	0
	Oct 5	0	0	0
Kluskus School	Oct 5	0	0	0
	Oct 5	0	0	0

Kluksus

93 10 04

Physical Tests

Colour	CU	31.0	—
Conductivity	umhos/cm	154	
Total Dissolved Solids		117	
Hardness	CaCO <sub>3</sub>	64.4	
pH		7.07	
Total Solids		119	
Turbidity	NTU	1.78	—

Dissolved Anions

Alkalinity - Total	CaCO <sub>3</sub>	84.6	
Chloride	Cl	1.0	
Fluoride	F	0.11	
Sulphate	SO <sub>4</sub>	<1.0	

Nutrients

Ammonia Nitrogen	N	0.067	
Nitrate Nitrogen	N	<0.005	
Nitrite Nitrogen	N	<0.001	
Nitrite/Nitrate Nitrogen	N	<0.005	

Cyanides

Total Cyanide	CN	0.004	
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Kluskus

93 10 04

Total Metals

Aluminum	T-Al	0.005
Antimony	T-Sb	<0.0001
Arsenic	T-As	0.0006
Barium	T-Ba	<0.010
Boron	T-B	<0.10
Cadmium	T-Cd	<0.0002
Calcium	T-Ca	11.6
Chromium	T-Cr	<0.001
Cobalt	T-Co	<0.001
Copper	T-Cu	0.002
Iron	T-Fe	0.534
Lead	T-Pb	0.005
Magnesium	T-Mg	0.62
Manganese	T-Mn	0.255
Mercury	T-Hg	<0.00005
Potassium	T-K	3.28
Selenium	T-Se	<0.0005
Sodium	T-Na	7.56
Uranium	T-U	<0.00005
Zinc	T-Zn	0.121

Inorganic Parameters

Sulphide	S	<0.02
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Halogenated Volatiles

Bromodichloromethane	<0.001
Bromoform	<0.001
Carbon Tetrachloride	<0.001
Chlorobenzene	<0.001
Chloroform	<0.001
Dibromochloromethane	<0.001
1,2-Dichlorobenzene	<0.001
1,4-Dichlorobenzene	<0.001
1,2-Dichloroethane	<0.001
1,1-Dichloroethylene	<0.001
Tetrachloroethylene	<0.001
Trichloroethylene	<0.001
Trichlorofluoromethane	<0.001
Vinyl Chloride	<0.001

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Kluskus

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Non-halogenated Volatiles

Benzene	<0.0005
Ethylbenzene	<0.0005
Toluene	<0.0005
meta- & para-Xylene	<0.0005
ortho-Xylene	<0.0005

Polyaromatic Hydrocarbons

Benzo(a)pyrene	<0.00001
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Chlorinated Phenols

2,4-Dichlorophenol	<0.001
2,4,6-Trichlorophenol	<0.001
2,3,4,6-Tetrachlorophenol	<0.001
Pentachlorophenol	<0.001

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