

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

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

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

Appendix C

Water Testing Results

6508 Swanson St.
Sardis, B.C.
V2R 1R2

M.L.S. SERVICES

*Sewer and Water
Trouble Shooting and Repair*

Tel/Fax: (604) 858-1717
Toll Free 1-800-981-8011
Cell: (604) 240-7978

June 30, 2000.

Band Manager,
Pavillion First Nation,
P.O. Box 609,
Cache Creek, BC V0K 1H0

Re: Circuit Rider Site Visit June 26, 2000.

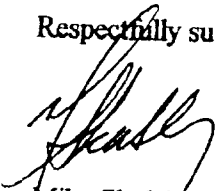
Contact: Ronson Ned, Maintenance Manager.

Projects to be considered for the next visit:

Hydrant maintenance
Clean reservoirs
Pressure release valve at the Ball Park.

I will be operating in a similar capacity on the Mid Coast over the next two months and expect to begin "hands on" training in your area in September. I trust this meets with your approval.

Respectfully submitted,


Mike Skulsky,
M.L.S. Services.

CC: Mr Sid Smith,
Asset Management Officer,
Public Works and Government Services Canada,
450 - 1550 Alberni Street,
Vancouver, BC V6G 3C5

VAN - E - 4300-9-5594 UNL

Page(s) 005776 to\à 005788

Is(are) under consultation

SAMPLE INTEGRITY RECORD

Client: HEALTH CANADA

Date: Sept 14/00 Initial: BM

COC Form #: 8055299

The following bottles were received for the above project:

Sample #	125ml CG	250ml CG	1L AG	1L CG	1L PL	500ml AG	500ml PL	250ml PL	250ml PL filter	250ml PL HNO3	250ml PL filter/HNO3	250ml PL, H2SO4	250ml PL filter/H2SO4	250 ml PL, NaOH	250 ml PL ZnAc/NaOH	Micro	100ml AG K2Cr2/H2SO4	40ml vials	Plastic Bag	Air Sample	Other	
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

The following observations were made regarding the above project:

- Sample Requisition Form/Written Instruction _____
- Missing Sample _____
- Extra Sample _____
- Incorrect Sample ID _____
- Physical Damage/Contamination _____
- Filtering Required/Preservative Required _____
- Decanting Required _____

Comments:

PHILIP ANALYTICAL SERVICES



PHILIP ANALYTICAL SERVICES

8577 Commerce Court
Burnaby, B.C. V5A 4N5

Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

8055299

COMPANY NAME: **HEALTH CANADA**
 PH. #: **250 8514834**
 FAX #: **851-4838**

COMPANY ADDRESS: **#202-1315 Summit Dr
Kamloops BC**
 CLIENT PROJECT ID: (#) **PAVILLON BAND**

SAMPLE NAME (PRINT): **DANIELLE AUDET**
 PROJECT MANAGER: **JAMES TESHIMA**

FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX				# CONTAINERS	SAMPLING		
		GROUND WATER	SURFACE WATER	SOIL	OTHER		DATE	TIME	HEADSPACE VAPOUR
	58238	<input checked="" type="checkbox"/>				2	13 SEPT	1020	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

TOTAL CHEMICAL

← TOS & TURBIDITY DELETED
DUE TO LIMITED SAMPLE
VOLUME. CLIENT WILL
RESUBMIT - 09/09/19 27

s.19(1)

TAT: Two Week One Week 48 Hours 24 Hours Other _____

PO. NUMBER / QUOTE NUMBER: _____ SPECIAL DETECTION LIMITS / CONTAMINANT TYPE _____

ACCOUNTING CONTACT: _____ SPECIAL REPORTING OR BILLING INSTRUCTIONS _____ EDT

LAB USE ONLY: ARRIVAL TEMPERATURE - C: **17** LAB INFORMATION:

RELINQUISHED BY SAMPLER:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
RELINQUISHED BY:	DATE =0/09/14	TIME 11:30	RECEIVED BY LABORATORY:

CUSTODY RECORD



PHILIP ANALYTICAL
29-Sep-00
Page 1 of 6

Certificate of Analysis

8577 Commerce Court
Burnaby, B.C.
Canada V5A 4N5
Tel 604 444 4808
Fax 604 444 4511

Reported To :

HEALTH CANADA

Client Code CE

#202 - 1315 SUMMIT DRIVE
KAMLOOPS, BC
V2C 5R9

Attention : JAMES TESHIMA
Phone : (250) 851-4830
FAX : (250) 851-4838

Project Information :

Project ID : PAVILLION BAND
Submitted By: D.AUDET

Requisition Forms :

Form 08055297 logged on 22-Sep-00 completed on 27-Sep-00

Remarks :

- ☞ All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses
- ☞ 'MDL' = Method Detection Limit, '<' = Less than MDL, '---' = Not analyzed
- ☞ 'CDWG' = Canadian Drinking Water Guidelines
- ☞ Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease
- ☞ Organic analyses are not corrected for extraction recovery standards except for Isotope Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)
- ☞ All Groundwater samples except BTEX/VOC's or Purgeable Hydrocarbons are decanted and/or filtered prior to analysis unless otherwise mandated by regulatory agency
- ☞ This report shall not be reproduced except in full, without the written approval of the laboratory

Methods used by Philip are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 20th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the appropriate regulatory agency. Methodology briefs are available by written request.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Liability for any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Philip for a period of 30 days from receipt of data or as per contract.

PHILIP Project Manager: James Teshima



PHILIP ANALYTICAL

29-Sep-00
Page 2 of 6

ANALYTICAL REPORT

Client : HEALTH CANADA
Project : PAVILLION BAND
Sampling site :
Submitted by : D.AUDET

Philip ID : 10060761
Client ID : [REDACTED]

Sparcode	Parameter	Unit	MDL	CDWG	s.19(1)
PHYSICAL					
00081071	Residue Nonfilterable (TSS)	mg/L	4	---	< 4
00151140	Turbidity	NTU	0.10	1.0	1.04

Matrix : Water
Sampled on: 00/09/21 16:00



PHILIP ANALYTICAL

29-Sep-00
Page 3 of 6

SPIKE SUMMARY

Parameter	Client ID	Philip ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Turbidity	Blank Spike. Batch :	04403601	< 0.10	2.01	2	NTU	97
Residue Nonfilterable (TSS)	Blank Spike. Batch :	04403647	< 4	206	200	mg/L	103



PHILIP ANALYTICAL

29-Sep-00
Page 3 of 6

SPIKE SUMMARY

Parameter	Client ID	Philip ID	Sample Conc.	Sample & Spike Conc.	Spike Amount	Unit	Percent Recovery
Turbidity	Blank Spike. Batch :	04403601	< 0.10	2.01	2	NTU	97
Residue Nonfilterable (TSS)	Blank Spike. Batch :	04403647	< 4	206	200	mg/L	103



PHILIP ANALYTICAL

29-Sep-00
Page 4 of 6

ANALYSIS DATES

Philip ID: 10060761
Client ID: **s.19(1)**

00081071	Residue Nonfilterable (TSS)	28-SEP-2000
00151140	Turbidity	25-SEP-2000

Matrix:	Water
Sampled on:	21-SEP-2000



PHILIP ANALYTICAL

29-Sep-00
Page 5 of 6

BATCH NUMBERS

Philip ID: 10060761
Client ID: **s.19(1)**

00081071	Residue Nonfilterable (TSS)	04403647
00151140	Turbidity	04403601

Matrix:	Water
Sampled on:	21-SEP-2000



PHILIP ANALYTICAL

29-Sep-00
Page 6 of 6

BLANK SUMMARY

All method blanks were less than MDL



PHILIP ANALYTICAL SERVICES

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

8055297

COMPANY NAME:
HEALTH CANADA

PH #: **250 851-4834**
FAX #: **851-4838**

COMPANY ADDRESS:
**# 202 - 1315 Summit DR
KAMLOOPS, BC
V2C 5R9**

CLIENT PROJECT ID: (#)
PAVILLION BAND

SAMPLER NAME (PRINT):
D. AUDET

PROJECT MANAGER:
JAMES TASHEMA

FIELD SAMPLE ID	PHILIP LAB # (Lab Use Only)	MATRIX				# CONTAINERS	SAMPLING			TOTAL CHEM TSS & TURBIDITY * replacement sample
		GROUND WATER	SURFACE WATER	SOIL	OTHER		DATE	TIME	HEADSPACE VAPOUR	
s.19(1)	60761	✓								✓
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

TAT

- Two Week
- One Week
- 48 Hours
- 24 Hours
- Other: _____

PO. NUMBER / QUOTE NUMBER:	SPECIAL DETECTION LIMITS / CONTAMINANT TYPE	LAB USE ONLY
ACCOUNTING CONTACT:	SPECIAL REPORTING OR BILLING INSTRUCTIONS	ARRIVAL TEMPERATURE °C: 13° LAB INFORMATION: Sep 29
RELINQUISHED BY SAMPLER:	DATE	TIME
RELINQUISHED BY:	DATE	TIME
RELINQUISHED BY:	DATE Sep 28 '00	TIME 1p
RECEIVED BY:		RECEIVED BY LABORATORY: Ran

EDT

CUSTODY RECORD

Page(s) 005800 to\à 005805

Is(are) under consultation