

WRANGELL NARROWS GLE
/ Hammer Slough ED

Alaska Department of Environmental Conservation
Watershed Management Unit

Waterbody Inspection and Monitoring Report

Waterbody / Watershed: Wrangell Narrows (saltwater waterbody near Petersburg)
Lower Hammer Slough (intertidal area within City of Petersburg)
Ohmer Creek (freshwater stream about 15 miles S. of Petersburg).

Date & Time: October 23, 1996

Inspectors: Eric Decker and Doug Redburn

Segment Inspected / GPS Location (if available): Sampled for fecal coliform in the Wrangell Narrows at the north end of Scow Bay at the DOT boat launch (12:40 pm) and at the Papke's Landing dock (1:00 pm). At Hammers' Slough, took a fecal coliform sample just below the city shop (11:30 am) and at the Nordic Drive Bridge (12:20 pm). The high tide was at 11:08 am (16.4 ft). A freshwater fecal coliform sample was also taken at the Ohmer Creek bridge.

Parameters of Concern: Fecal coliform from failed or leaking septic systems.

Purpose of Inspection: Collect fecal coliform data from the Wrangell Narrows and Hammer Slough. Collect freshwater background fecal coliform from a stream with minimal human activity.

Monitoring Data Collected: Fecal coliform sampling lab tests were conducted by City of Petersburg staff at the wastewater treatment facility laboratory. Test results were as follows:

Sampling site	# of colonies per 100 ml
N. end of Scow Bay	10
Papke's Landing	10
Hammer Slough (below City shop)	30
Nordic Drive Bridge	20
Ohmer Creek	10

Please refer to lab report dated 10/23/96.

Visual Observations: Fecal coliform sampling was conducted just after high tide. The weather was overcast clouds with intermittent light rain; temperatures in the high 40's.

Recommended Actions: Whenever DEC staff has the opportunity to visit the Petersburg area, continue to collect fecal coliform samples at the same sample stations at different tide stages and at different times of year to determine fecal coliform trend conditions.

TRAINING
Doug

Petersburg Wastewater Treatment Plant Daily Lab Report

Date 10 23 96 Weather 4 Rain Temp. 37°
Operator R.S. Rainfall .50" Time 08:00

Sample Type Composite - C
Grab - G

(Steve Smith)
Flow

Influent Totalizer	Recirc. Pump	Effluent Totalizer
To Date	No. Running	To Date
Previous	Flow	Previous
Amount		Amount

Laboratory Analysis

	BOD mg/l	S.S. mg/l	Sett. Solids ml/L	DO mg/l	pH	Temp. °C	Fecal Coliform Colonies/ 100 ml	Transferred Sludge			
								Gallons Transferred	% Dry Solids	% Volatile	Time
Plant Influent								Wt. Wet + Dish		Wt. Dry + Dish	
Trickling Filter Effluent								Dish Wt.		Dish Wt.	
								Wet Wt.		Dry Wt.	
Plant Effluent								Wt. Ash + Dish			
								Wt. Dish			
								Volatile Wt.			

Chlorine

lbs. CL ₂ 24 Hours	Time	Analyzer	Titratior	Hach	Ave.
		Analyzer No. 1			
		Analyzer No. 2			
		Analyzer No. 1			
		Analyzer No. 2			

Dewaterer

Time Start	Gallons Processed	% Dry Solids	% Volatile	lbs. Dry Sludge Process	lbs. Volatile Sludge Process	Polymer Strength %	Amount Polymer Used
Time Finish		1.	1.				
		2.	2.				
		3.	3.				
		Ave.	Ave.				

Settleable Solids

Min.	Time	Plant Influent	Filter Effluent	Effluent
0				
5				
10				
15				
20				
25				
30				
40				
50				
60				

44.4
1505
44.5
1230
08:00
44.4
12:00
44.6

Fecal Coliform

Petri Dish No.	Sample Filtraion Volume	Water Bath		No. of Colonies	
		Time in	Time out	Visual	Per 100 ml
1 A	.10			1	10
B	.01			0	
2 A	.10			1	10
B	.01			0	
3 A	.10			3	30
B	.01			0	
4 A	.10			2	20
B	.01			0	
5 A	.10			1	10
B	.01			0	

Petri Dish No. & Sample Source

Remarks

- # 1 North End Scow Bay (D.O.T. boat launch)
 - # 2 Papke's Landing (D.O.T. dock)
 - # 3 Hammer Slough (Before City Shop)
 - # 4 Nordic Drive Bridge
 - # 5 Ohmer Creek
- Samples collected between 11:30 AM and 1:25 PM*

R.S. Smith