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Memo to: Ron Robinson
From: Pat Lee
Subject: Chimacum Creek

State of
Washington
Department
of Ecology



Here are the results of the Chimacum Creek survey of June 26, 1974. As you were there, sampling details are unnecessary. The creek was sampled at five places. The results of the sampling effort are reported below:

Log Number	74-2738 Wooded Area	2739 Hwy	2740 Gould --Residence--	2741 Short	2742 Chimacum School
Station	1	2	5	5A	6
pH	7.7	7.9	7.9	7.7	7.5
Turbidity (JTU)	1	2	3	4	3
Conductivity (umhos/cm) @25°C	170	150	170	190	220
Color	17	70	95	110	115
Total Coliform (Col/100 ml)	Est. 29,000	Est. 8,700	12,000	12,000	17,000
Fecal Coliform (Col/100 ml)	Est. 12	>400	>400	1200	>1600
Fecal Strep.	140	130	60	220	290
Fecal Coliform/ Fecal Strep.	.08	>3.3	>6.6	5.5	>5.5

The color increases as it hits the peat bog area and continues to increase downstream. Conductivity and turbidity also increase slightly downstream. All bacteria counts increase as the creek moves through the valley although the high total coliform count at Station #1 baffles me. The fecal coliform/fecal strep ratio indicates strictly animal sources for the counts at Station #1 and mixed human-animal sources for the rest. There is probably some kind of septic tank runoff to account for this. Chimacum Creek is class A water and these bacteria counts pretty definitely violate water quality standards.

PL:jmh