

TO _____ Dan Neal
FROM _____ Ron Devitt
SUBJECT _____ Colville Sewerage Treatment Plant Survey .
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DATE _____ January 8, 1973

State of
Washington
Department
of Ecology



This survey was very routine and the efficiency very good as indicated by the attached data. The only significant observation was that the characteristics of the influent fluctuated widely. Also, oil sheens were observed entering the system.

RD:pt
101-217

Attachment

DATA SURVEY REPORT FORM

(EFFICIENCY STUDY)

City Colville Plant Type Lagoons Population ? Design ?
 Served Capacity
 Receiving Water Colville River Engineer Dan Neal
 Date 11/15/72 Survey Period 0900-1600 Survey Personnel Redevitt
 Comp. Sampling Frequency 30 min. Weather Conditions Rain
 (last 48 hours)
 Sampling Alequot MCDX 2000 ml/sample

PLANT OPERATION

average
 Total Flow .6 MGD How Measured yardstick, weir
 remainder
 Max. (Flow) .7 MGD Time of Max. 9-11;12,16 hrs. Min. .6 Time of Min. of time
 Pre Cl₂ - #/day Post Cl₂ 20 #/day

FIELD RESULTS

14 Determinations	Influent				Effluent			
	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median
Temp. °C	17	15	15.7	16	6	5	5.5	6
pH	8.0	7.3	7.7	7.7	8.3	8.2	8.2	8.2
Conductivity (umhos/cm)	2400	600	950	675	750	700	730	750
Settleable Solids	10	6	7	6	* nil	nil	nil	nil

x 2 daphnia

LABORATORY RESULTS ON COMPOSITE IN PPM

Laboratory Number	Influent	Effluent	% Reduction
	72-4532	72-4533	
5-Day BOD	132	6	95
COD	670	58	91
T.S.	873	571	35
T.N.V.S.	544	413	24
T.S.S.	145	13	91
N.V.S.S.	27	1	96
pH	7.6	8.4	
Conductivity	1020	750	
Turbidity	45	10	

Colville

BACTERIOLOGICAL RESULTS

Na₂S₂O₃ added to sample _____ After _____ in bottle _____ min.

LAB #	SAMPLING TIME	COLONIES/100 MLS (MF)		15 sec.	3 min.
		TOTAL	FECAL	Cl Residual ppm	(after secs)
72-4534	0925	< 200	< 200	.1	.4
72-4535	1120	< 200	< 100	.1	.5
72-4536	1230	< 200	< 200	.1	.5

Operator's Name Larry Schroder Phone # _____

Comments: _____

