Publication No. 76-e43

WA-07-1100

MEMORANDUM

January 13, 1976

To: Tom McCann

From: Allen Moore

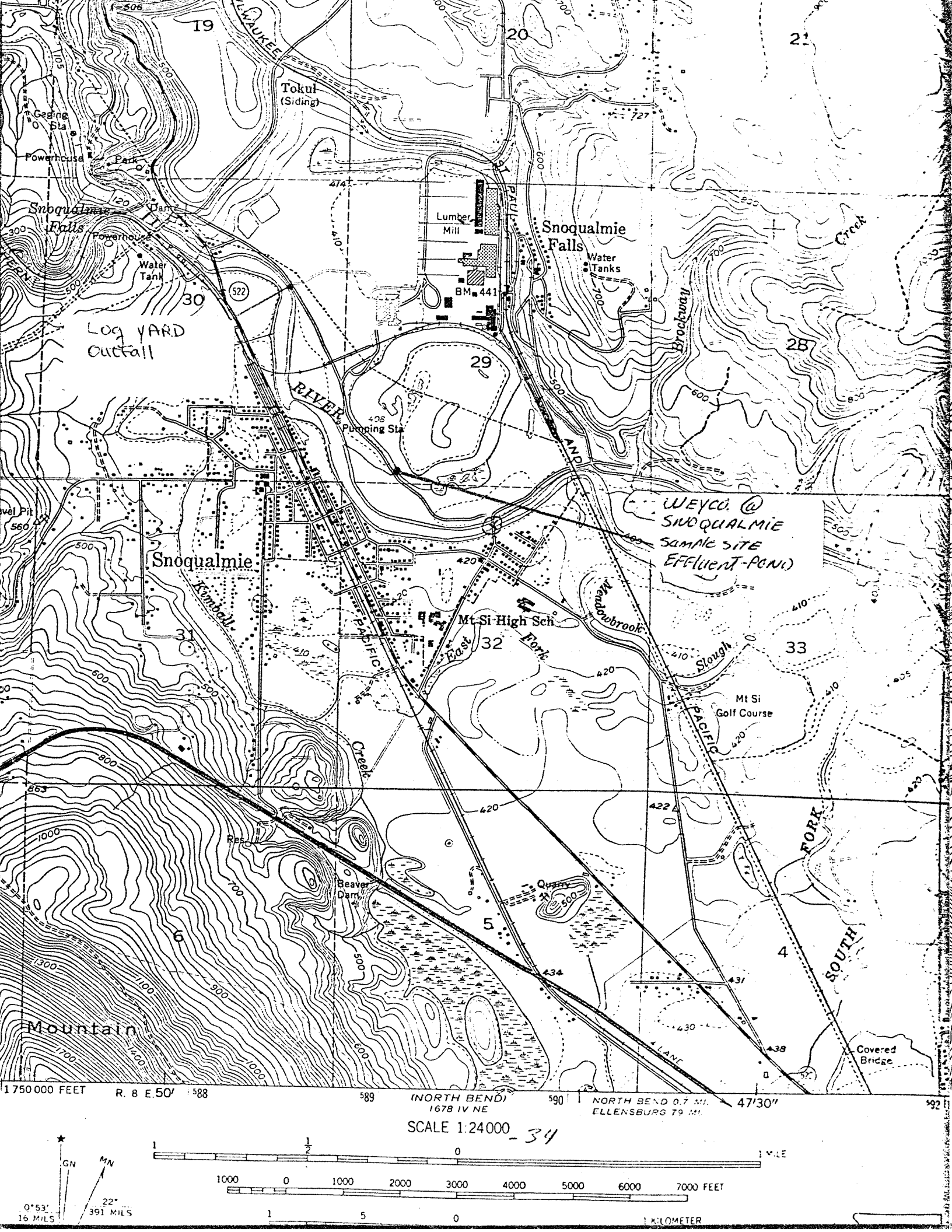
Subject: Weyerhaeuser at Snoqualmie

Grab samples of the effluents coming from Weyerhaeuser pond at Snoqualmie were taken on October 28, 1975 and again on November 10, 1975. Turbidity and bacteria were high. Also phenols (0.22 ppm) were found. The effluent smelled of decomposing organics and had a very low dissolved oxygen (0.32 mg/l). All vegetation in the effluent stream bed appeared to have been killed by the effluent.

A comparison of a survey on June 21, 1973 by Don Devitt which also includes data from a June 6, 1970 survey shows that nearly all parameters have been increasing over the years including turbidity which was much higher in 1975 (150 and 260) than in 1973 (60 and 60) and 1970 (36). The BOD and COD values were higher in 1973. The solids values show steady increases over the years.

Also on October 28 a small stream of three to four gallons per minute was found coming from the log storage area on the west side of Weyco. This was runoff from rainfall, was highly turbid and smelled of wood leachates. It collected in a small ditch and ran under the road through a small concrete pipe where it discharged to the Snoqualmie River. The location of the outfalls are shown on the attached map. The data is summarized on the attached sheet.

AWM:ee


Tokul
(Siding)
Gaging Sta
Powerhouse
Park
Dam
Snoqualmie Falls
Powerhouse
Water Tank
Lumber Mill
BM 441
Snoqualmie Falls
Water Tanks
Brockway
Creek
LOG YARD
Outfall
RIVER
Pumping Sta
WEYCO @
SNOQUALMIE
SAMPLE SITE
EFFLUENT-POND
Snoqualmie
Kimball
Mt Si High Sch
East Fork
Meadowbrook
Slough
Mt Si
Golf Course
PACIFIC
Creek
Res
Beaver Dam
Quarry
FORK
SOUTH
Mountain
4 LANE
Covered Bridge
1 750 000 FEET
R. 8 E.
(NORTH BEND)
1678 IV NE
NORTH BEND 0.7 MI.
ELLENSBURG 79 MI
47°30"
SCALE 1:24000
- 34
GN
MN
0°53'
16 MILS
22°
391 MILS
1 MILE
7000 FEET
KILOMETER

DATA SUMMARY

Source WEYCO @ SNOQUALMIE

Date Collected

Station:	10-28-75 POND EFFLUENT	11-10-75 POND EFFLUENT		6-21-73 POND EFFLUENT			POND EFFLUENT			
Time Collected	0935	1020								
Turbidity (JTU)	150	260		60	60		36			
Conductivity (umhos/cm)@25°C	120	FIELD 145		—	—		112			
COD	100.	190		164	—		100			
BOD (5 day)	L20*	23		26	—		13			
Total Coliform (Col./100ml)	EST 120,000	EST. 80,000		55,000	50,000		<20,000 to 31,000			
Fecal Coliform (Col./100ml)	9,200	*—		3,000	3,500					
NO3-N (Filtered)		0.06		.01						
NO2-N (Filtered)		ND		—						
NH3-N (Unfiltered)		0.22		.11						
T. Kjeldahl-N (Unfiltered)		1.5		—						
O-PO4-P (Filtered)		0.36		ND						
Total Phos.-P (Unfiltered)		1.08		.04						
Total Solids	240	[illegible]		222	—		183			
Total Non Vol. Solids	140			111	—		97			
Total Suspended Solids	109			95	—		86			
Total Sus. Non Vol. Solids	61			41	—		40			
FIELD Temp	10.25	9.4			14.4		19.6			
Dissolved oxygen	0.32	—								
pH	6.2	—		6.5	6.5		6.7			
PHENOLS	0.22			—	—					
COLOR (color units)	740			—	—					

Note: All results are in PPM unless otherwise specified. ND is "None Detected"

10-28-75 * EST. BOD : 11

11-10-75 * DATA REJECTED due to Possible contamination