

M E M O R A N D U M

January 13, 1976

To: Ron Robinson

From: Allen Moore

Subject: Sequim Bay State Park

A grab sample was taken at the Sequim Bay State Park sewage facility on 28 July 1975. The lab sheet and STP Survey Report Form show that highly concentrated, essentially raw sewage is dumped into Sequim Bay.

The effluent line runs some distance offshore and discharges below the low tide line. The receiving water sample taken on the beach in line with the effluent shows higher coliform counts than the two samples taken 150 feet to the north and south respectively.

AWM:ee

STP Survey Report Form

Efficiency Study

City Sequim Bay State Park Plant Type Primary Pop. Served Variable Design Capacity _____
 Receiving Water Sequim Bay Perennial X Intermittent _____
 Date 28 July 75 Survey Period Grab Survey Personnel _____
 Comp. Sampling Frequency _____ Sampling Alequot _____
 Weather Conditions (24 hr) warm, clear Are facilities provided for complete by-pass of raw sewage? _____ Yes _____ No/Frequency of bypass _____
 Reason for bypass _____ Is bypass chlorinated? _____ Yes _____ No
 Was DOE Notified? _____ Discharge - Intermittent _____ Continuous _____

Plant Operation

Total flow _____ How measured _____
 Maximum flow _____ Time of Max. _____
 Minimum flow _____ Time of Min. _____
 Pre Cl₂ _____ #/day Post Cl₂ _____ ? _____ #/day

Field Results

Determinations	Influent				Effluent			
	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median
Temp °C								
pH (Units)								
Conductivity (µmhos/cm ²)								
Settleable Solids (mls/l)								

Laboratory Results on Composites

	Influent	Effluent	% Reduction
Laboratory No.	_____	<u>75-3221</u>	
5-Day BOD ppm	_____	<u>260</u>	_____
COD ppm	_____	<u>570</u>	_____
T.S. ppm	_____	<u>680</u>	_____
T.N.V.S. ppm	_____	<u>363</u>	_____
T.S.S. ppm	_____	<u>128</u>	_____
N.V.S.S. ppm	_____	<u>21</u>	_____
pH (Units)	_____	<u>7.9</u>	
Conductivity (µmhos/cm ²)	_____	<u>1800</u>	
Turbidity (JTU's)	_____	<u>96</u>	

Laboratory Bacteriological Results

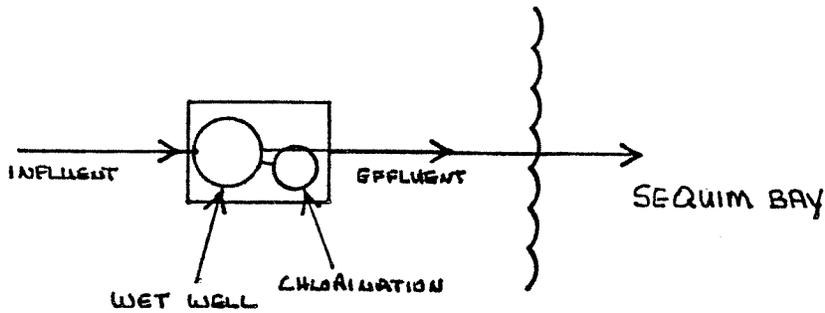
Lab No.	Sampling Time	Colonies/100 ml (MF)			Cl ₂ Residual
		Total Coliform	Fecal Coliform	Fecal Strep	
Z 75-3224		>40,000	>4000		
75-3222	150' N				
75-3223	150' S				
75-3225	Outfall				

Additional Laboratory Results

NO ₃ -N ppm	-	ND	
NO ₂ -N ppm	-	ND	
NH ₃ -N ppm	-	150.	
T. Kjeldahl-N ppm	-	154.	
O-PO ₄ -P ppm	-	11.6	
T-PO ₄ -P ppm	-	16.2	

Operator's Name _____ Phone No. _____

Furnish a flow diagram with sequence and relative size and points of chlorination.



Type of Collection System

Combined Separate Both

Estimate flow contributed by surface or ground water (infiltration)

_____ MGD

Plant Loading Information

Annual average daily flow rate (mgd)

Peak flow rate (mgd)

Dry _____

Dry _____

Wet _____

Wet _____

COMMENTS: _____

