

M E M O R A N D U M

TO: JOHN HODGSON

DATE: January 24, 1972

FROM: J. L. BAUMER

On January 11, 1972 an efficiency survey was conducted on the Oak Harbor Sewage Treatment Plant. This plant has recently been remodeled and since this time the operators feel that the overall operation has been much more difficult and many more equipment failures. The digester has been down and the engineering firm was recommending the addition of seed and lime during the time the survey was in progress. The grit removal chamber is a source of many hours of work as the screw type grit pump plugs up nearly every day and requires pumping of the grit chamber to enable cleaning of the pump. Possibly this could be prevented by placing the bar ^{MM} ~~rotator~~ before the grit removal chamber. The results of the survey are as follows:

JLB:as

40/02

STP SURVEY REPORT FORM
(EFFICIENCY STUDY)

City _____ Plant Type _____ Population _____ Design _____
 Served _____ Capacity _____
 Receiving Water _____ Engineer _____
 Date _____ Survey Period _____ Survey Personnel _____
 Comp. Sampling Frequency _____ Weather Conditions _____
 (last 48 hours) _____
 Sampling Alequot _____

PLANT OPERATION

Total Flow _____ How Measured _____
 Max. (Flow) _____ Time of Max. _____ Min. _____ Time of Min. _____
 Pre Cl₂ _____ #/day Post Cl₂ _____ #/day

FIELD RESULTS

Determinations	Influent				Effluent			
	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median
Temp. °C	10.8	9.3	10.4	10.3	11.5	9.5	10.1	10.2
pH	7.2	7.0	7.1	7.1	7.2	7.2	7.1	7.1
Conductivity (umhos/cm)	550	490	510	520	550	550	555	555
Settleable Solids	1.0	0.0	0.6	0.6	0.0	0.3	0.4	0.4

LABORATORY RESULTS ON COMPOSITE IN PPM

Laboratory Number	Influent	Effluent	% Reduction
5-Day BOD	100	75	25
COD	240	200	17
T.S.	590	570	2
T.N.V.S.	4.0	3.8	6
T.S.S.	8.0	7.5	6
N.V.S.S.	4.0	3.8	6
pH	7.6	7.4	2
Conductivity	795	735	6
Turbidity	2.5	2.0	20
	85	75	12
	75	65	13

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