

(EFFICIENCY STUDY)

WA-23-1020

City Chehalis Plant Type Secondary Population 5700 Design / MGD / Capacity
 Receiving Water Chehalis River Engineer Nelson Graham
 Date 9/18/72 Survey Period 1000 - 1700 Hrs. Survey Personnel Ty Thomas
 Comp. Sampling Frequency 1/2 Hr. Weather Conditions Overcast
 (Test 48 hours)
 Sampling Al₂O₃ MGD/x 1000 ml/sample

PLANT OPERATION

Average ~~XXXXX~~ Total Flow 1.8 MGD How Measured Parshall Flume - Yardstick
 Max. (Flow) 2.4 Time of Max. 1000 Hr. Min. 1.7 Time of Min. 1100, 1300,
1400, 1600, 1700 Hrs.
 Pre Cl₂ --- #/day Post Cl₂ ? #/day

FIELD RESULTS

Influent

Effluent

8 Determinations

Temp. °C

pH

Conductivity
(umhos/cm)

Settleable
Solids

	Max.	Min.	Mean	Median	Max.	Min.	Mean	Median
Temp. °C					16.8	15.7	16.3	16.5
pH					6.8	6.0	6.3	6.2
Conductivity					---	---	---	---
Settleable Solids					Nil	Nil	Nil	Nil

LABORATORY RESULTS ON COMPOSITE IN PPM

Laboratory Number

5-Day BOD

COD

T.S.

T.N.V.S.

T.S.S.

N.V.S.S.

pH

Conductivity

Turbidity

	Influent	Effluent	% Reduction
		72-3535	
5-Day BOD		16	
COD		69	
T.S.		272	
T.N.V.S.		168	
T.S.S.		26	
N.V.S.S.		4	
pH		7.2	
Conductivity		353	
Turbidity		10	

Chehalis

BACTERIOLOGICAL RESULTS

Na₂S₂O₃ added to sample _____ after in bottle _____ min.

LAB #	SAMPLING TIME	COLONIES/100 MLS (MF)	Cl Residual	
			15 sec. ppm	3 min. (after secs.)
72-3536	1100	< 200	.3	1.0
72-3537	1300	200	.2	.8

Operator's Name Dick Miller Phone # 748-7187

Comments: Composites were also made of influent at the south Parshall flume. The field and lab data are not reported on the influent because these samples were influenced by a sludge return. The operator was not aware that the return system was operating.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

ORIGINAL TO:
RON. DEVIET.

COPIES TO:
.....
.....
LAB FILES

DATA SUMMARY

Source CHEHALIS STP

Collected By Ty ~~ASTOR~~

Date Collected 9/18/72

Goal, Pro./Obj. 3.2.23

Log Number: 72-3533-3534-3535-3536-3537 STORET

Station:	INE	PRIM. CLAR. EFF	EFF	EFF 1100	EFF 1300							STORET
pH	6.0	5.2	7.2									00403
Turbidity (JTU)	275	53	10									00070
Conductivity (umhos/cm)@25°C	520	481	353									00095
COD	2060	740	69									00340
BOD (5 day)	960	408	16									00310
Total Coliform (Col./100ml)				<200	200							31504
Fecal Coliform (Col./100ml)												31616
N ⁻ -N (Filtered)												00620
NO ₂ -N (Filtered)												00615
NH ₃ -N (Unfiltered)												00610
T. Kjeldahl-N (Unfiltered)												00625
O-PO ₄ -P (Filtered)												00671
Total Phos.-P (Unfiltered)												00665
Total Solids	1758	685	272									00500
Total Non Vol. Solids	344	177	168									
Total Suspended Solids	991	115	26									00530
Total Sus. Non Vol. Solids	166	5	4									

No good to
DVC
G. W. ...

Note: All results are in PPM unless otherwise specified. ND is "None Detected"
Convert those marked with a * to PPB (PPM X 10⁻³) prior to entry into STORET

Summary By Mary Holcomb Date 9/27/72

