ГО:	Stew Messman
FROM:	Darrel Anderson
SUBJECT:	Newhalem STP
DATE:	March 19, 1973

State of Washington Department of Ecology



On February 22, 1973, an efficiency survey was conducted at the Newhalem STP. The survey period was from 0830 to 1700 hours, compositing every hour. The plant is new and in very good appearance, with good security.

Melvin Mohn, the operator, indicated a washout problem due to oversizing of the plant for tourist season. This can be identified with the high total coliform of 40,000 to 110,000/100 ml, and dilute mixed liquor. Also, COD and total solids reduction was about 50 percent.

DA:bj

(EFFICIENCY STUDY)

	Plant Ty	rpe_Secondar	ry Populat	ion >230	Design 230 at 120 qu
re ones in somi			Served		Capacity
Receiving Water U	Jpper Skagit Rive	er	Engi	neer_ Don S	imms
Date2-22-73	Survey Po	riod_0830-	-1700	Survey Pors	onnel Darrel Anderson
Comp. Sampling Free	quency every hou	r We.	ather Condit	ionsclear	, warm
Sampling Alequot	1000 m1	,			
		PLANT	OPERATION		
Total Flew 1,416.	0 g/hour		How Meas	ured "V" n	otch weir
Max. (Flow) 29.7 9	/min.Time of Max	. 0830	Min	13.6 g/min	Time of Min. 1530
Pre Cl ₂ 0	0/day	Post C	122 1/2		
Pre C1 ₂ 0	0/day				
Pre C1 ₂ 0			122 1/2	#/day	ffluent
		FIEL	122 1/2	#/day	ffluent
Pre Cl ₂ 0 Determinations Temp. °C	In	FIEL	1 ₂ 2 1/2	#/day	ffluent Mean Meason
_Determinations Temp. °C	Max. Min.	FIELD fluent Mean 1	D RESULTS	#/day E x. Min.	Mean Meana 9,3 10
Determinations	Max. Min.	FIELD fluent Mean 11.5 7.6	D RESULTS Median Na	#/day E X. Min.	Mean Mean 9.3 10 6.4 6.4

LABORATORY RESULTS ON COMPOSITE IN PPM

	Influent	Effluenc	% Reduction	
Laboratory Number	73-802	73-803		
5-Day BOD	NOT DETERMINED			
COD	366	163	55	
T.S.	330	223	53	-
T.N.V.S.	136	90	54	
T.S.S.	93	104		
N.V.S.S.	10	14		
PII	7.6	7.2		
Conductivity	320	2.70		
Turbidity	42	32		

BACTERIOLOGICAL RESULTS

Na2S2O3 added to sample before sample XXXXX was taken. XXXX.

LAB #	SAMPLING TIME	COLONIES/100 MLS (MF)	C1 fosidual		
NOTE THE PERSON NAMED IN COLUMN TO T			pps	(after secs	
73-804	0830	40,000	5.1	3 min.	
73-805	1030	40,000	.2	3 min.	
73-806	1200	110,000	>.7	3 min.	
73-807	1230	40,000	.2	3 min.	
73-808	1430	80,000	>.6	3 min.	
73-809	1630	90,000	.5	3 min.	

Operator's Name_	Melvin Mohn	 Phone #
Connents:		

STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

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	1,1	11	-	D,	S	7	O	1				

LAB FILES ..

DATA SURMARY

P					Co	llecte	d By D	0
73					Go	al, Pr	o,/Obj	
802	Xc3	804	805	806	802	803	8.7	STORET
INF	ece	0530	1030	1200	1230	1430	1630	
76	72							00403
42.	32.			100				00070
320	170.							00095
366.	163							00340
								00310
-	-	40,000	49000	110,000	40,000	\$10,000	90,000	31504
-	-	(200	1200	120€	(200	(Zec	(2ec	31616
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	3 80 2 136 93	3 462 863 100 F CCF 7 6 7 2 42 32 320 270 366, 163 	3 40 4 . See 3 40 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	330 223 136 90. 138 203 204. 138 203 204.	3	3 Goal, Pr 402 863 864 863 806 822 408 101 72	3 Gost, Pro, /obj

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

Convert those marked with a * to PPB (PPM X 10) prior to entry into STORET

Summary By Aught 5 All Date 2-1-23

Calubrit.

FINE BAL WATER POLITICAL CONTROL ASSESSMENT AND MAINTENANCE

PRACTIC	ES OUESTIGHEADRE			
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TIST AUDIT THE-AUDIT				
	A. GENT.PAL 1			
1. PROJECT (Scale, Sunder)		FREEL OF PHOPLET DAWN	dant, achitice s	2 0.1911
IT I SHOW IN THE				
2. PLANT LOCATION (City, cinnity)		IDENTIFICATION OF AREA		
ALLERACET, ILHATOPA	1	7044 FF 14	C. H. Spieler	
	3: 1:000	JEATION.		
SA. FRACTION OF AREA PEPULATION SERVERITY	230 AF 12 CEPR		STRAFFI BY "C	LATION
	4. TYPE OF COLI	LECTION SYSTEM		
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TREATMENT PANAGO - CO	6A. 3E ve h	58- PLAS		11 11 11 11 11 11 11 11 11 11 11
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6A PURPOSE OF CHLORINATION	
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ALLETICA STANDARDS	
AB. TYPE OF CHLOSINATOR	el .
BC. POINT OF APPLICATION OF CHLORINE	BD. CAN BYPASSED SEWAGE DE CHLORINATED!
CHARLES CAPACE FANGE .	□ YES □ NO
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	A PRU AT END OF UNDITES
REAL WHEN CHERICE BETTLES ALL	
B. AND PACIFICES PROVIDED FOR COMPLETE SYPAIR OF NAME	
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WITHIN HYDRAULIC CAPACITY OF PLANT BEYOND HYDRAULIC CAPACITY OF PLANT BY	☐ YES → NO
EF. TYPE OF DIVENSION STRUCTURE	96. AGENCIES NOTIFIED OF BYPASS +CTION
CLERKE BEEF FREE HER HELL	50 5 (X 45) 5 (5) A 1
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☐ YEF ☑ NO	
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18A, ARE BAC "LOW DEVICES PROVIDED AT ALL CONNECTION	S.TO CITY WATER SUPPLET (If his #+1114H)
YES NO AC DIRECT	CCARCCTICA "
TOR, CHECK TYPE OF BACK PLOW PREVENTION DEVICE	
DOUBLE CHECK VALVE PRESSURE OPERATED	PHYSICAL DISCONNECT TOTHER(specify)
15. USES OF THEATHENT PLANT EFFLUENT	
. No 1565	
12- USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTPALL	
TE HAVE THERE BEEN ANY GOOR COMPLAINTS BEYOND THE PE	ANT PROPERTY! (If yez, explain)
TARE NO	
7	
14. ORSERVED APPEARANCE AND CONDITION OF EPPLUENT, HI	SELECTION STREET, OR DESIDED THE
ALL RELATIVELY VICE	(90)
170	

FNFCA=17 (Rev. 4=63) (Puge 2)	

2 STADICIZATION POSITS	
A. WEEDS OUT AND VEGETATIVE CHOWTH IN PONDS ELIMINATED?	B. DAMES AND DISCES MAINTAINED (FRANCISCO CIE.)?
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E. WATER DEPTH (Feet)	
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EMOSOUSTO PALETONS OF SPECIES IF	J. CAN SURFACE NUN-OFF ENTER PEND?
PRODUCE T KNOWN	TTYES TTNO
C. SUPERVISORY	ERVICES
1, 15 A CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CON	SULTATION ON OPERATING AND MAINTENANCE PROBLEMS?
N YES TONO IF YES IS IT ON: TO CONTINUING BA	SIS OR TO UPON REQUEST BASIS
IF CONTINUISO PASIS, WHAT IS THE FREQUENCY OF VISITS	
2. DO OPERATORS AND OTHER PERSONNEL ROUTINELY ATTEND SHI	ORT COURSES SCHOOL S DR OTHER TRANSPORT ACTIVITIES
	par counses, schools on other manner we have a
T AER (X) NO	• /
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURSE A	TYENDED
IF NO, DO YOU KNOW OF ANY COURSES AVAILABLE TO SERVE	THIS AREAT
AST AT PRESENT	11.
JA. ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT STO	L In COLUMNIA
THE THE RESTRICT HIS PARTS OF THE PRESENT PERMISTI	V YES NO (II AM EX TOWN)
	FTI was to the same
B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENCY!	YES NO dina extens
	DIFFICULTY CONTRACTOR OF
	767 1 75
A. HAVE THERE BEEN ANY DIFFICULTIES WITH THE SENAGE THEA: A. STRUCTURAL YES NO (II yes explain)	IMENT PLANT!
at a tride town [] TES [] No (if yet explain)	
B. MECHANICAL TES NO (II yex, explain)	
C. OPERATIONAL IX YES IN NO (III yes, explain) CAMA	22 TO GET 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SILIDS IN HERBATION TAKE FOR I	AND PARK TO A STATE OF THE PARK TO STATE OF THE PAR
MINED WHEN IS TOO DILLTE.	
D. DASED ON OPERATING EXPERIENCE TO DATE WHAT IF ANYCHAP OF THE PLANT?	AGES WOULD YOU RECOMMEND TO IMPROVE CHERATION
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ARE LASON	ATORY F	CCORDS MA	INTAINED	check appropriate has						
WHAT PLPS	ED CHEC	K FORM OF DG BOOK LADDYAT	TABULA DRY EQUIPM	R SHEET SEPT	ARATE BY OP TERS ARE CA	EHATION LIBRATED	PERIODICA	NOL CHAR	TS GRA	P#15
[X] Y		NO III no.		ME CONTROL RECUI	RED FOR THI	5 512£ AND	TYPE OF	PL 450 T #		
- INDUSTRIAL	WASTES	DISCHARGE	O TO MUNIC	PAL SYSTEM			S OF INDUS	TRIES SIL	THAPSING TO	SYSTEM
POPULATIO	N EQUIVA	LENT MOL	D OF INDUST	FIRE WASTES (pr)	C. FOPULAT		FALEUT (55)	DE HIGH	Hith west	5 (8+)
N. VOLUME OF	INDUSTR	AL WALTE	* (mpd)	100	E. COMPOSI	TION AND I	CHARACTE	NISTIES OF	MEGSTRIAL	WASTES
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				52						
. HAVE INDUS	TRIAL E	FLUENT F	HOBLESS BE	EN BOLVES!	YES [NO (II y	es, humi			
A. METHOD O	RMETHOD	F.VSED TO	ASSESS IND	JETHIAL WASTE THE	ATMENT COL	T teheck am	eternologic line			
□ NO	D CHARGE HARGED (BY CITY	☐ PROP	AW XAT YER	TER USE ASSI	ESSMENT	CHAR	OE BASEL	ON FLOW Sydemethel	
	IAL WAST	FORDINAN	CE IN ESTE		-					
B. 15 INCUST III O. WHO PROVID	ED INITIA	L HISTHUT	TION IN THE	T AND ENFORCED?		□ NO				
B. 15 INCUSTRI D. WHO PROVIDE	ED INITIO	L HISTHUI	CON IN THE	OPERATION OF TH	E PLANT!	ACJE A				15
B. 45 INDUSTRI D. WHO PROVID ALERY L. 15 A MANUAL	OF PEA	TICE ON I	TION IN THE	S AVAILABLES	IF YES, WHO	AC JA A	D PROVICE			
B. 45 INDUSTRI D. WHO PROVID 4277 V L. 15 A MANUAL	OF PEA	THE DISTRUCTION OF THE PER CONTRACTOR OF THE	ETION IN THE E & R S NATHUCTION ACER SEVOT	OPERATION OF TH	IF YES, WHO	AC JA A	D PROVICE			
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B. 45 INDUSTRI D. WHO PROVID 4277 V L. 15 A MANUAL	OF PEA	AL MISTRUIT CHICE ON I O O O O O O O O O O O O O	CTION IN THE CERRS NATHUCTION ABER SEVOT	S AVAILABLE!	EPLANT!	MEDIE AN MADIE AN MAINTENAN VOLUME AND AL	D PROVIDE	0+83 A-1	RE-SHEET	
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ALC: N. Park	DOMESTIC AND ADDRESS.	ARREST B.	 HE SAFE

Enter test codes opposite appropriate items. If any of the below tests are used to monitor industrial wastes place on "X" in addition to the test code,

CODES

1 = 7 or more per week 3 = 1, 2, or 3 per week

5 - 2 or 3 per month

7 - Quarterly

9 - Annually

2 - 4, 5 at 6 per week

4 - as required

6 - 1 per month

- Semi-Amountly

	RAW			- Line	FINAL	5L	SLUDGE		
ITEM		EFFL.	MARY	LIQUOR		RAW	SUPER- NATANT	DISESTOR	STREAM
1, 800									
2. SUSPENDED SOLIDS									
3, SETTLEABLE SOLIDS	3			3	3				
4. SUSPENDED VOLATILE									
8. DISSOLVED DIXYGEN				4					
6. TOTAL SOLIDS						72500000	A susseme		
7, VOLATILE SOLIDS									
e. 1 ^J i					3.				
S. TEMPERATURE				3	.4				
M. COLIFORM DENSITY						1			
II, RESIDUAL CALDRINE					3	l.			
12. VOLATILE ACIDS									
13. M. B. STADILITY									
9 A . A									
15.									
16.									
17.		1							
18.									
19.									
		F. OPE	ERATID:	AND MAIS	TENANCE COST	FOR PLANT			
YEAR OF CRESATION	SALARIES WAGES		ELEC	TRICITY	CHEMICALS	MAINTENA	NCE DINE	HITTOL	TOTAL
MOST CURRENT YEAR 19									
PRIOR YEAR 19									
PRIOR YEAR 19	1								
PRIOR YEAR 19									
EVALUATION PERFORMED BY			191.17	1157	TITLE	total and the	ONGANIZATION		
			4						11
INFOTUATION FURNISHED SY			TITLE				OMSANIZATION		
* * * * * * * * * * * * * * * * * * *			77.						
									-

G. HOLLY IGNS BY LYALUATOR C. HOLLY BY Committee the particular Hem, Microlly by combines REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no. Paplicin) YES NO 1B. Are there any pending actions (enforcement conferences, change in water quality standards, etc.) That would require Upgeracing of Treatment by This plants	_
REQUIREMENTS OF HIGHER AUTHORITY 3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY NEQUIRED BY THE STATE! (If NO, PAPLIER) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If so, explain) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If so, explain) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If so, explain) YES NO	
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REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If so, explain) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no. +aphtin) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no. +aphtin) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no. +aphtin) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If so, Facility) YES NO	
REQUIREMENTS OF HIGHER AUTHORITY 3A. DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no. Papition) YES NO	
3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no, explain) YES NO	
3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no, explain) YES NO	
3A, DOES THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no, explain) YES NO	
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LI YES LINO	
18. ARE I MERE ANY PENDING ACTIONS (enforcement conferences above	
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OF ORACING OF TREATMENT BY THIS PLANT!	tit.
YES NO (If yes, explain)	
1 72	
3C. NUMBER OF STATE INSPECTIONS OF PRESENT PLANT TO DATE	
IS ANY FOLLOW-THRU ACTION REQUIRED TO (1) CORRECT DEFICIENCIES IN THE PLANT OR ITS OPERATION OR ITS PERMITS OF THE PLANT OF ITS OPERATION OR I	
L YES NO	