TO:	John Arnquist
FROM:	Darrel Anderson
SUBJECT:	Waitsburg STP
DATE:	April 6, 1973





On March 31, 1973, an efficiency survey was conducted at Waitsburg STP. The survey period was from 0900 to 1600 hours, composite sample taken every hour. Overall plant housekeeping was fair, with some cleanup and painting needed. Plant security is good.

Percent reduction for BOD, COD, and solids were low. Only 27% for BOD and 32% for COD. Total solids was 10% and total non-volitile solids was 25%. The six colifrom samples taken from the effluent ranged from 16,000 - 80,000/100 mls.

DA:bj

	511	SURVEY RE	PORT FOIS!			
		(EFFICIENCY	STUDY)			
City Waitsburg	Plant Type_	Primary	Population Served		Desfyn Capacity	1,000
Receiving Water Coppe	i Creek		Enginee			
Date_ 3-21-73	_Survey Period	10900-16	30 Sur	vey Person	ne1_Darrel	Anderson
Comp. Sampling Frequency	, 1200 ml/hr.		er Condition 48 hours)	sPartly	cloudy	
Sampling Alequot						
Secol Sieve 55 g/min or	273 600 g/day	PLANT OPE			(II)	
Fotal Flow 55 g/min or Max. (Flow) 60 g/min g			1000010002000000000		and address from the owner.	
?re Cl ₂					_	
		FIELD RE	SULTS			
	Influe			Eff	luent	

			IL LUCILL				PETTOOUP	
Determinations	Max.	Min.	Mean	Median	Max.	Min.	Mean	Medfan
Temp. °C	13	13	13	13	14	12	12.9	13
pll	7.2	6.8	7.1	7.2	7.4	7.0	7.3	7.0
Conductivity (unhos/cm)	650	375	587.5	650	600	525	594	600
Settleable Solids	5.0	2.0	2.9	2.0	_		TRACE	

LABORATO	RY RESULTS	S ON (COMPOSITE	IN	PPM

	Influent	Effluent	Z Reduction	
Laboratory Number	73-1164	73-1165		
5-Day BOD	59	43	27	
COD	183	124	32	
r.s.	564	509	1 10	
r.N.V.S.	300	227	25	
r.s.s.	92	56	39	
I.V.S.S.	15	4	74	
511	7.5	7.8		
Conductivity	810	860		-
Turbidity	35	25		

BACTERIOLOGICAL RESULTS

Na2^S2^O3 added to sample before sample XXVXXX was taken. XXX.

LAB Ø	SAMPLING TIME	COLOHIES/100 MLS (MF)	C1 Peridual		
			ppn	l(after secs	
73-1166	0900	> 80,000	.05		
73-1167	1000	> 40,000	.05		
73-1168	1100	~ 16,000	.05		
73-1169	1 300	> 40,000	.05		
73-1170	1400	> 80,000	.15		
73-1171	1500	> 40,000	.1		

)perator's Name	Walter Harris	Phone #
Comments:		
	<u>*</u>	
		*

DE	PAR	RTM	ate of IEN' ir qual	ТС)F I	ECO	LO	GY	ORIGIN OCOPIES	******
			DATA	SUMMA	RY				LAB FI	uis
Source WAITSGORG STP	<u>(</u> 5E)				Ço	llecte	а ву <u>р</u> ,	A.	
Date Collected 3-21-33		-				Go	al, Pr	o./Dbj		
Log Kumber: 73:	1164		1166	116.7	1167	/16 7	1120	<u>u</u> 21		STORET
Station:	COMP INP	6.m.P 6.P.F	0900	1000	1100	17:0	1400	1500		
рн	7.5	7.8								00403
Turbidity (JTU)	35.	25.		ļ						00070
Conductivity (umhos/cm)@250	810	860							1	00095
<u>COP</u>	183	124	 							00340
<u>BOD (5 day)</u>	59	43								00310
Total Coliform (Col./100ml)	<u> </u>	<u> </u>	789.00	24904	716,000	<u>}4</u> 9.04) i's or	>49.000		31,504
Fecal Coliform (Col./100ml)					9000		-			3161 6
ND3-N (Filtered)		.								00620
NO2-N (Filtered)			·							00615
NH3-N (Unfiltered)	<u> </u>									00610
<u>T. Kjeldahl-N (Unfiltered)</u>				_						00625
G-PO4-P (Filtered)	<u> </u>	·								00671
Total Phos P (Unfilieted)										00665
<u>Total Sol</u> ids	564	509								00500
Total Non Vol. Solids	300	227								
Total Suspended Solids	92	56		1						00530
Total Sus. Non Vol. Solics	15	ч		 						
				L						
<u></u>									F	
I								_		
<u> </u>										
Note: All results are in P Convert those marked	2M unl with	ess of	berwis PPB (e spec PPM X	ified. 10') p	ND i ríor t	entr	Detected y into ST	d" ORET	

Summery By Alight & fall Date 4-3-23

				Extubel	
SEWAGE TREATMENT PL PRACTIC	US OUESTIONUME	КО МАНТЕНАНСЕ		(1996) #1-19959213 1998613 19962 #3 69, #2-1952	
CHECK DW.	DATE OF AUDIN		PLANT DESC	nuttion coor (the Otherni Det Only)	
151 AULIT PAULT	3-21	-73		0.000	
	A. GEHERAL	INFORMATION			
(A) (V) .		SCOPE OF PHOULET	(new plant, adda	tions, etc.)	
PLANT LOCITION (City, county)		TOENTH TEATION OF	ANE AS SERVED		
WAITS BURG , WALLA W	ALLA , WN.	INTERLATE	comu	alter	
		ATION			
SERVED (S) 1010	PRIMAI	roj.utatian equivalentj R	HOUSE	HY PLATIT (domestic)	
· · · · · · · · · · · · · · · · · · ·		LECTION SYSTEM	THOUSE.	1.44.4	
IA.			CONTRINUTE	O BY SUNFACE OR SPOUND	
COMDINED ESPARATE	[] вотн	AD ESTIMATES FLOW CONTINUED IN SURVICE ON ENCOUNATES INITIALISM, ELGIN 20% AT HIGH MATER			
YEAR CONTUNITY BEGAN SLOAGE TREATMENT	 An and a second sec second second sec	- YEAR PATSENT SYST	and the second	the particular statistical contraction and an end of the second state and	
1952	6A. SENER	195	2_	SC. ANCILLARY HORAS	
A. SIZE OF FLANT SITE (Acres)		78. APPHONIMATE AN	REA LEFT FOR	LAFARSIZY (ACCES) -	
- TP- TCOPP	C CRIK	Of Hor	CLAIRTFIL CINE CONTRC CALE	CPERATINC HOUSE	
B. NOTE ANY SIGNIFICANT OR UNIQUE PR					
C. C	Second Conditions.				
	5 DECEN	VING STREAM			
VA. NAME OF STREAM	9. HECEN	THE STREAM			
COPPEJ CREEK			The second second		

PERENNIAL DIN	TERMITIENT	NATUPAL	- REGULATED	COASTAL
8	CURRENT PER	FORMANCE AND PL.	HT LOADING INFORMA	TION
TALANNUAL AVERADE DAILY FLOW RATE		15. PELK F	LOW RATE (R. d)	IC. MILINUM FLOW HATE (CON)
219,500)	200,000	3 50,00 0	180,000 .
AVEHAGE ADD OF FAA BEA	4 5 1 3 DAY 21"C) [P(m)	3. AVENAGE SETTLE	ABLE SOLIDS OF HAR START (MILLING
AVERASE SUSPENDED JEL	DS OF 44# 1204	56 (m); D	S. AVERAGE COUFS	AN DENSITY OF HAN SCHADE THE INTER
		G. ANNUAL AVECAS	E PLANT RESUSTION	
A. 000 ***	1991 SETTEC	A 3 CK 20 C 03 1 M	142. 303 - 10 D 10L	61150 62. COLOR DESIGNES *

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0. ANT CHEORYSATION FACULTRES P IF YES, ANSALD BA THOUG	the second state and the state of the second s	and a second since the second	40
		1	
	2363		
A PUHPOSE OF CHLORINATION			
WALL Runfielin		2 C	2
WALLACE + TE	RNIN Variabele	e orifice	
BC. POINT OF ADDI ICATION OF CHUC	THEF	BD. CAN BYPASSED SEWAGE DE CHEDRINATED?	
in line to Filter	& outfall .	LIVES LITHO	-
	ana (Hurday)	IF. CHEDRINE RESIDUAL IN EFFLUENT	
5 den 12		3 PEMAN EUR OF 2 - UNUTEN	
AG. MINIMUM SUPPLY OF CHEOMMER'S	LOHED DA SHERRE (10)		
130 Voin da.			_
. ARE FACILITIES PROVIDED FOR C			
	10 IF YES, ANSLER A THR	U G BELOW, AUSWER H IN EITHER CASE. ION (hours) #C. REASON FOR BYPASSING	
<pre>*A. FREQUENCY (never membly) *</pre>	TO. AVENAGE DURAT	Break down or for	2.4
PD. ESTMATED FLOR NATE DURING		#E. DOES SEWAGE OVERFLOW IN DRY WEATHERS	1.5
DEVOND HYDRAULIC CAPAC		YES NO	
F. TYPE OF DIVERSION STRUCTURE	1	96. AGENCIES NOTIFIED OF BYPASS ACTION	
	0.14	UNITS? (II no; has this caused any operational problems?)	_
104. ARE DACK FLOR DEVICES PROV	ICED AT ALL CONNECTIONS 1	TO CITY WATER SUPPLY? (Il no, explicit)	
EFES NO	(24 .)		
10D. CHECK TYPE OF DACK FLOW PR	AEVENTION DEVICE		
DOUBLE CHECK VALVE	PRESSURE OPERATED	PHYSICAL DISCONNECT OTHER(specify)	
11. USES OF TREATMENT PLANT EF	LUENT		
	NOVE .		
12. USES OF RECEIVING STREAM WIT			
12. USES OF RECEIVING STREAM WIT			
12. HAVE THERE REEN ANY ODOR CO	HIN 10 MILES OF DUTFALL	мт Раореату+ (ll yes, esplain)	
	HIN 10 MILES OF DUTFALL	NT PROPERTY+ (Il yez, explain)	
12. HAVE THERE REEN ANY ODOR CO	HIN 10 MILES OF DUTFALL	NT PROPERTY+ (Il yez, explain)	
12. HAVE THERE REEN ANY ODOR CO	HIN 10 MILES OF DUTFALL	NT PROPERTY+ (Il yez, explain)	
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BEEDSCUT AND VESS TATIVE CROWTH IN PONDS LEISINATE	D1 0. DAMPS AND DD.1.5 MAINTAINED (COLOR FIG.)?
[[] XES [] HO	TINO //
AND IN CODE IN PAULS	LN3 D. FREQUENCY OF HISFLETION BY OPENATOR
[4-YES] NO	DAILY
. WATER DEPTH (Reg	W MEDIUM
ADEQUATE CONTHOL OF DEPTHY	G. SEEPAGE REPORTEO
	TYES NO
LANY REPORTS OF GROUND WATER CONTAMINATION FROM PL	Rear 1 Transf
YES TO	
	*
PRODUCTO THE COME OF STECIES IF	
YES THO	YES NO
C. SUPERVISO	
S IS A CONSULTING ENGINEER RETAINED OR AVAILABLE FOR	CONSULTATION ON OPERATING AND MAINTENANCE PROBLEMS
YES IN IFYESISITON CONTINUIN	G BASIS OR UPON REQUEST BASIS
IF CONTINUING EASIS, WHAT IS THE FREQUENCY OF VISIT	5
. DO OPERATORS AND OTHER PERSONNEL ROUTINELY ATTEN	D SHORT COURSES , SCHOOLS OR OTHER TRAINING ACTIVITIES?
YES NO	
	/
IF YES, CITE COURSE SPONSOR AND DATE OF LAST COURS	SE ATTENDED
IF NO, DO YOU KNOW OF ANY COURSES AVAILABLE TO SEP	RVE THIS AREAT
3A, ARE ALL EQUIPMENT AND PARTS OF THE PRESENT PLANT	STILL IN OPENATIONT YES NO (II no. explain)
10 C	
B. ARE PROCESSING UNITS OPERATING AT DESIGN EFFICIENC	YI YES NO (II no. espinin)
4. HAVE THERE BEEN ANY DIFFICULTIES WITH THE SERAGE TH	REATMENT PLANT!
A. STRUCTURAL YES IN NO (Il yes explain)	
1	
2111	
B. MECHANICAL YES NO (Il yea, explain)	
C. OPENATIONAL YES. TO (11 yes, explain)	
102	
D. BASED ON OPENATING EXPERIENCE TO DATE WHAT IF ANYO	CHANGES WOULD YOU RECOMMEND TO IMPROVE OPERATION
OF THE PLANT' NONE	
NONE	
NONE	
NONE	
NONE	с.
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and the second s	Eitense instaalvalp	TYIS LIND	TO WHOM STATE						
FREQUENCY REATINGE FRE	OW SEUDIST C	USED HEEST		ELLC. USED	COST	Ain USCO	MAIN- TENANCE	OTHER	
DAILY									
WEEKLY									
MONTHLY			-						
ANNUALLY			-	10000					
6. ARE LAUDRATORY HEEDIN	OS MAINTAINED*	(check appropriate h							
IF MAINTAINED CHECK FO	NA OF RECORD BE	LOW:	PARATE NY OP	FRATION	ANNUALLY		TS 🗔 GRA	PHS	
VES NO	ll no, exploin)	1	THE PART OF	A STEE AND	THE OF F	S ANT		a) Al	
INDUSTRIAL WASTES OLDCH	ARGED TO MUNIC	PAL SYSTEM	A. NUMBER	AND TYPE	S OF INDUS	TRIES DISC	HARGING TO	SYSTEM	
B. POINTALATION EQUIVALINT		C. POPULATION EQUIVALENT (55) OF INDUSTRIAL WASTES(DP)							
		· · · · · · · · · · · · · · · · · · ·							
D. VOLUME OF INDUSTRIAL IN	_	STRIAL WASTE LEVE	E. COMPOSI		CHARACTER	USTICS OF	INDUSTRIAL	₩ A 5 T ∉ 5	
D. YOLUME OF INDUSTRIAL N	ENCED LETH INDU	<hr/>	E. COMPOSI	NO (11 y		151+C5 OF	INDUSTRIAL	WASTES	
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D. YOLUME OF INDUSTRIAL N F. MAIN DIFFICULTY EXPERIN	NT PROBLEMS HE	SSTRIAL WASTE TH	E. COMPOSI	NO (11 y	es, bow?) ropriere bax) GE BASED (•	WASTES	
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	INT PRODLEMS HE	USTRIAL WASTE TH USTRIAL WASTE TH ERTY TAX UW CItized charge, aliding CT AND ENFORCED C OPERATION OF T	E. COMPOSI	NO (11 7 CONCENT	es, bow?) ropriere bax) GE BASED (•	WASTES	
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Enter test codes opposite addition to the test code, $\frac{CODES}{1 - 7}$ or more per week										Y., 11	
 7 or more per week 4, 5 or 6 per week 	3 - 1, 2, or 3 per week 5 - 2 or 3 per month 7 - Quarterly 9 - Annually 4 - as required 6 - 1 per month 8 - Semi-Annually										
		1		194210-192		51.	UDGE				
ITEM	RAW		LUENT	LIQUOF		FLAW	NA NA	TANT	DIGESTOR	STREAM	
1. 000	3		/		1	1		/	1	(
2. SUSPENDED SOLIDS		1.75									
3. SETTLEADLE SOLIDS	1		i	4	1			/	1	1	
4. SUSPENDED VOLATILE											
5. DISSOLVED OXYGEN	1		1	1							
6. TOTAL SOLIDS											
7. VOLATILE SOLIDS											
6. p ³¹	1	1	1	1	1	1		1	1		
9. TEMPENATURE	1		1								
10. COLIFORM DENSITY		1									
11. RESIDUAL CHLORINE					1					1	
12. VOLATILE ACIDS		1									
13. M. D. STAEIL(TY		1				•					
TA. ALKALINITY									1		
15,						•					
16.											
17.		1									
10.											
19.											
		F. OPa	RATION	AND MAD	ITENANCE COST I	OR PLANT					
YEAR OF OPERATION	SALARIES'WAGES		ELECTRICITY		CHEMICALS	MAINTENANCE		OTHER ITEMS		TOTAL	
MOST CURRENT YEAR 19										1221221222	
PRIOR YEAS 19											
PRIOR YEAR 19											
PRIOR YEAR 19											
EVALUATION PERF	OPHED BY				TITLE				ORGANIZATI	ON	
DARREL L. ANDERSON		SIU	SCI II					OFOT. OF FCOLOGY			
				<u></u>							
INFORMATION FURNISHED BY			TITLE			ORGANIZATION			D44	DA*E	
WALTER HARRIS			PLANT OPENERTORS			City of warts Blue 6			tsBuce6	3-21-73	
		i den			-						

7 6. HOLATIONS BY EVALUATOR . . ADDITIONAL HEMADICS (If remarks telef to a particular treas, identify by monther) 2. GENERAL COMMENTS ON HOUSEKEEPING AND MAINTENANCE FAIR HOUSERTERING - weeds some cleanup and painting. 3. REQUIREMENTS OF HIGHER AUTHORITY 34. DOLS THE PLANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE! (If no. explain) YES NO 1.4 30. ARE THERE ANY PENDING ACTIONS (enforcement conferences, change in water quality standards, etc.) THAT WOULD REQUIRE UPGRADING OF TREATMENT BY THIS PLANT! YES NO (If yes, explain) 10 3C. NUMBER OF STATE INSPECTIONS OF PRESENT PLANT TO DATE. * 4. IS ANY FOLLOW-THRU ACTION REQUIRED TO ITI CORRECT DEFICIENCIES IN THE PLANT OF ITS OPERATION OR (2) RESOLVE INDUSTRIAL WASTE PROBLEMST (II yes, describe required corrective action) YES NO . . 12 3 24.7 - ----

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