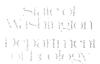
WA-45-1020

April 17, 1974





Memo to: Clar Pratt, Russ Taylor

From: Allen Moore

Subject: Efficiency Study at Cashmere STP. LACOON

A routine efficiency study was conducted at the Cashmere STP on March 14, 1974. Because there was no headworks, influent composite samples were taken at both the main city lift station and the Tree Top lift station. Using proportional flow rates the two composites were mixed together for a total influent composite. Also composites were taken at the flow between Cell #1 and #2 and at the final effluent. Cell #3 is used only during the summer when high evaporation results in no discharge. There is no comminutor and the sand filter beds are not used. Tree Top, the only industrial contribution accounted for a BOD load approximately 9 times that of the city during the survey. At times their influent looked and smelled like pure apple juice. The chlorination rate was increased at 1200 and was reflected in increased chlorine residual and decreased bacteria counts. Altogether, the plant looked neat and well run.

AM:jmh

STP Survey Report Form

Efficiency Study

City <u>Cashmere</u> Plant Type Lagoon Pop. Served 2000 Design 5000 Capacity
Receiving Water <u>Wenatchee River</u> Perennial <u>xx</u> Intermittent
Date 3-14-74 Survey Period 1015-1545 Survey Personnel Moore, Jeane
Comp. Sampling Frequency Hourly Sampling Alequot = MGD x 1000ml
Weather Conditions (24 hr)Sunny-cool Are facilities provided for complete by-
pass of raw sewage? <u>xx</u> Yes <u>No/Frequency of bypass Never</u>
Reason for bypass Is bypass chlorinated? Yes Xx No
Was DOE Notified? Discharge - Intermittent Continuousxx
City Tree Top 5 1/2 hours Total flow 67,000 Gal - 25,300 Gal How measured Totalizer
Total flow 67,000 Gal - 25,300 Gal How measured Totalizer
City Tree Top Maximum flow <u>.317 MGD</u> 115 MGD Time of Max. <u>1200 hours</u> 1015 hours
Minimum flow .230 MGD060 MGD Time of Min. 1315 hours 1100 hours
Pre Cl ₂ No#/day Post Cl ₂ 34.25#/day

Field Results

Influent

Effluent

Determination	s TT	Max. Mir		Median Max.	Min.	Mean	Median
Temp °C pH (Units)	28	13.0 12.	5 18 8 7 4 TT	<u>13.0</u> 25 7.3 8.07.781	5.6		5.8
Conductivity (umhos/cm ²)	0.5		24.5 CTTY				
Settleable Solids (mls/l)	28	7.5 7.	c 21 7.25	7.25 Trac 24.5	e T	T	T

Laboratory Results on Composites

Laboratory No.	Influent	Effluent Fi	inal % Reduction
	CITY TT Combined	Primary Lagoon	Eff.
	74-78 <u>4 -785</u> -7 <u>86</u>	-787	788
5-Day BOD ppm COD ppm T.S. ppm T.N.V.S. ppm T.S.S. ppm N.V.S.S. ppm pH (Units) Conductivity (µmhos/cm ²) Turbidity(JTU's	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	696 407 215 ND 7.6	50 96% est 196 90% 546 68% 386 15% 150 65% ND 100% 8.3 920 21 96% est

Laboratory Bacteriological Results

Lab No.	Sampling Time	g Co Total	lonies/100 m Fecal	l (MF) Fecal	Cl ₂ Residual
		Coliform	Coliform	Strep	3 min.
74-789	1015	40 est	<10		.4
-790	1115	120.est	<10	L	.4
-791	1330	<20	<10		1.0
-792	1500	<20	<10	1	.75
-793	1600	< 20	<10	L	.75
	l		<u>]</u>	l	

Additional Laboratory Results

Operator's Name Tom Davies Phone No.

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

Type of Collection System

Combined Separate <u>X</u> Both	Estimate flow contributed by face or ground water (infiltr	
	Unknown	MGD
Plant Loading Info	rmation	
Annual average daily flow rate(mgd)	Peak flow rate(mgd)	
Dry .313 MGD	Dry216 MGD	
Wet	Wet442 MGD	
COMMENTS: Increased rate in chlorination	at 1200 is reflected by reduce	ed
bacteria counts and increased chlorine	residual.	

STATE OF WASHINGTON ORIGINAL TO: eane DEPARTMENT OF ECOLOGY COPIES TO: WATER QUALITY LABORATORY DATA SUMMARY Source CASHMERE STP Collected By SCOTT JERNE Date Collected 3/14/17 Goal, Pro./Obj._____ 787.788.789.790.791.792.793 STORET Log Number: 185 786 (ACON) Station: EFF 1015 1115 1330 1500 1600 7.6 8-3 pН 00403 Rĺ 21 90 100 30 Turbidity (JTU) 00070 Conductivity (umhos/cm)@25c 1020 920 980 910 700 00095 196 296 1880 219 COD 5580 00340 160 3800 50 BOD (5 day) 1300 60 00310 40 ¥ <20 <20 <20 Total Coliform (Col./100m1) 120 31504 <10 < 10 < 10<10 Fecal Coliform (Col./100m1) < 1031616 NO3-N (Filtered) .17 00620 .03 NO2-N (Filtered) 00615 1-3 NH3-N (Unfiltered) 00610 10-2 T. Kjeldahl-N (Unfiltered) 00625 2.90 <u>O-PO4-P</u> (Filtered) 00671 Total Phos. - P (Unfiltered) 7.0Ò 00665 784 696 4436 2029 646 Total Solids 00500 424 Total Non Vol. Solids 505 386 155 407 292 Total Suspended Solids 581 429 215 150 00530 99 239 Total Sus. Non Vol. Solids 136 ND \mathcal{ND}

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

* ESTIMATED

Summary By May Lolcov

Date

FEDERAL WATER POL	TMENT OF THE INTERI- LUTION CONTROL ADM ANT OPERATION AT ES QUESTIONNAIRE	INISTRATION ND MAINTENANCE		FORM APPRO BUDGET BUR	VED EAU NO. 42-R1527
CHECK CNE	DATE OF AUDIT	an an the Annual Constant and Annual Annu	PLANT DESC	RIPTION CODE	(For Official Use Only)
IST AUDIT	A CENEDAL I		<u> </u>		· · ·
I. PROJECT (State, Number)	A. OLNERAL	SCOPE OF PROJECT (new plant, addi	tions, etc.)	
PLANT LOCATION (City, county)		IDENTIFICATION OF A	REAS SERVER	D	
CASHMERE, CHELAN		TOWN OF	CASHN	NERE	
		ULATION	1		
SA. FRACTION OF AREA POPULATION SERVED (%)	38- PLANT DESIGN (PO	pulation equivalent) 75	823	BY PLANT (dom	APPROX
VV 10	4. TYPE OF COLL	ECTION SYSTEM		MCICHS	Zaug renne
COMBINED SEPARATE	Беотн	48. ESTIMATED FLOW WATER (infiltration		D BY SURFACE	OR GROUND
YEAR COMMUNITY BEGAN SEWAGE TREATMENT	6.	YEAR PRESENT SYSTE	M PLACED IN	OPERATION	
1961	6A. SEWERPA 1961- 1972	0420 68. P 1961	- 1972	C. ANCH	LARY WORKS
APPEOX 16 ALES ,			POX, ONE	ACRE	
A. IN THE SPACE PROVIDED BELOW FURNIS FLOW SEQUENCE. INCLUDE THE METHOD STABILIZATION PONDS AND NUMBER OF G	H A SIMPLIFIED FLOW D	DIAGRAM OR A WRITTEN DISPOSAL, SHOW APP	DESCRIPTIO	N OF THE PLA	T UNITS IN
LIFT STAT No.2	FIDNI FROM TREE TOP INC.				CELL # 3
LIFT STATION # 1 TROM TOWN	CESSING CONDITIONS.		·		
MOST EFFLENT IS TAKE		LH2 TO R	ENOVE	AS MUCH	AS
SET. SOLLOS.		-		•	
	6 DECENT	NG STREAM			
A. NAME OF STREAM WENATCHEE RIVER					
B. STREAM FLOW IS	NATURAL	REGULATED		- Aller and a second	RASTATE
	REORMANCE AND PLAN	NT LOADING INFORMAT	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 	FLOW RATE (M;	J)
· 313 MGD	. 216 MGD	. 442 MGD		16 MGD	
AVERAGE BOD OF RAN SENAISE IS DAY 20° IBB PPM FORTOWN / 1870 PPM FOR AVERAGE SUSPENDED SOLIDS OF RAN SEN NOT ANALYSED	TREETOP INC.	3. AVERAGE SETTLEA 2.5 ML/L ROZTOWN S. AVERAGE COLIFORN NOT	1 /8.5 F	RAN SEWAGE	(m(/)) INC.
	6. ANNUAL AVERAGE LEADLE DOLIDS (M) 79% DIDIAL	NOT ANALYSED	i m	D. COLIFONS	

74. BOES PLANT HAVE STANDBY POWER GENERATOR FOR MAJOR PUMPING FACILITIES?	78. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES?
8. ARE CHLORINATION FACILITIES PROVIDED? YES NO IF YES, ANSWER BA THRU G	IF YES, IS CHLORINATION CONTINUOUS? [] YES [] NO IF NO, EXPLAIN REASON FOR INTERMITTENT CHLORINATION
BA PURPOSE OF CHLORINATION	
SANITIZE EFFWENT	
BB. TYPE OF CHLORINATOR "ADVANCE "CHLORINATOR - CO	NITACT TANK
8C. POINT OF APPLICATION OF CHLORINE	BD. CAN BYPASSED SEWAGE BE CHLORINATED?
CONTACT TANK	YES KNO BY PASS CHLORINATOR
BE. AVERAGE FEED RATE OF CHLORINE (16/day) 34.25 LD/dAY	•93 PPM AT END OFMINUTES
86. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (16)	
(1) 150 16 CYL ON CLORINATOR (1) 150 16 CYL	. ON STANDBY (2) 150 10 CYL AT CITY HALL
9. ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAW SEV	IAGE?
	J G BELOW, ANSWER H IN EITHER CASE.
9A. FREQUENCY (times monthly) 9B. AVERAGE DURATI NEVER USED	USED NO REASON FOR BYPASSING
9D. ESTIMATED FLOW RATE DURING BYPASS IS	9E. DOES SEWAGE OVERFLOW IN DRY WEATHER?
WITHIN HYDRAULIC CAPACITY OF PLANT	YES NO
BEYOND HYDRAULIC CAPACITY OF PLANT BY	
SF. TYPE OF DIVERSION STRUCTURE	9G. AGENCIES NOTIFIED OF BYPASS ACTION
PIPE BYPASS CONTACT TANK 9H. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT L	IF EVER USE YES.
YES NO NO 104. ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS T YES NO NO CONNECTIONS	
108. CHECK TYPE OF BACK FLOW PREVENTION DEVICE	NO CONTUECTIONS.
DOUBLE CHECK VALVE PRESSURE OPERATED	PHYSICAL DISCONNECT POTHER(specify)
11. USES OF TREATMENT PLANT EFFLUENT	· · · · · · · · · · · · · · · · · · ·
NONE	
12. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL RECREATION, BWER GEHER	ATION (COLUMBIA RIVED)
13. HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLAN	IT PROPERTY? (Il yes, explain)
14. OBSERVED APPEARANCE AND CONDITION OF FEELUENT RECE	

OBSERVED NO DIFFERENCE IN APPEARANCE

15. STABILIZATION PONDS							
A.WEEDS CUT AND VEGETATI	VE GROWTH IN POI	NDS ELIMINATED?	D. BANKS	AND DIKES	MAINTAINE	D (crosion	etc.)?
YES NO				TYES			
C. FENCING AND "WARNING - AND IN GOOD REPAIR?		R'' SIGNS PRESENT	D. FREQU	ENCY OF IN		BYOPERA	TOR
E. WATER DEPTH (lect)	4.5 HIGH	<u> </u>	4	/A MEDIUM			NO 2 AND DRY UP IN SUMMER
F.ADEQUATE CONTROL OF D	EPTH?		G. SEEPA	GE REPORT	ED'		
YES NO				YES	HNO		·
H. ANY REPORTS OF GROUND	WATER CONTAMIN	ATION FROM POND	(II YES, RIVE	uetans)?			
I-MOSQUITO BREEDING BROBLEM TYES	IF YES, NAME KNOVN	OF SPECIES IF	J. CAN SU	RFACE RUN	-OFF ENTE	R POND? OME PUT IN	STORM WATER SYSTEM
		C. SUPERVISORY S	ERVICES				
1. IS A CONSULTING ENGINEER	R RETAINED OR AV	AILABLE FOR CON	SULTATION	ON OPERA	TING AND	AINTENA	NCE PROBLEMS?
YES NO	FYES IS IT ON:	CONTINUING BA	SIS OR	UPON	REQUEST E	ASIS	
IF CONTINUING BASIS, WH	-	an age for t					
2. DO OPERATORS ANDOTHER.			ORT COURS	SES . SCHOO	LS OR OTHE	RTRAIN	ING ACTIVITIES?
YES NO							he is a company of
IF YES, CITE COURSE SPO SPONSOR TOWN (TTENDED	WEN GURSE	26 MA	2CIH 19	ALLEY COLLEDGE 774.
IF NO, DO YOU KNOW OF	-		THIS AREA	?			
	•						
34. ARE ALL EQUIFMENT AND	PARTS OF THE PI	RESENT PLANT STI	LL IN OPER	RATION?	YES [NO (If	no, explain)
B. ARE PROCESSING UNITS OF	PERATING AT DES	IGN EFFICIENCY?		L	YES [NO (If	no, explain)
4. HAVE THERE BEEN ANY DI	FICHLITIES WITH	THE SEWAGE TREAT	TMENT PLA	NT?			
A. STRUCTURAL YES	TNO (II yes e						
B.MECHANICAL YES	NO (11 yes, e	explain)					
C. OPERATIONAL YES	NO (II yes, e	explain)					
FILTER BED.	s are c	DE VERUI LI	MITED	USE	BECAU	SE OI	e sealing
D. BASED ON OPERATING EXP OF THE PLANT?	ERIENCE TO DATE	E WHAT IF ANYCHAI	NGES WOUL	D YOU RECO	DMMEND TO	IMPROVE	OPERATION
/ SUSPECT THA A FILTRATION				15 NO	T UP	To :	STANDARDS

		CORDS MAI general item	NTAINED? s included)	YES [ОИ []	REPORTED		YES F WASHI	NO NATONI	HS, DIV. O	E HEAL
FREQUENCY	VEATHER	FLOW	SLUDGE HANDLED	CHEMICALS	DIGESTER	GRIT HANDLED	ELEC. USED	COST	AIR USED	MAIN- TENANCE	отне
DAILY	-	·		-						-	
WEEKLY			1								
MONTHLY											
ANNUALLY											
6. ARE LABO	RATORY R	ECORDS MA	INTAINED'	(check appro	l opriate box)				- I	t	1
		OG BOOK	RECORD I	Resources.			ERATION		ROL CHAR	ts 🗌 gra	PHS
7. IS LABORA				THE CONTR	OL REQUIR	ED FOR THI	S SIZE AND	TYPEOF	PLANT?		
	YES [] NO (11 no,	explain)							ET FORT	
				15		STATE					
LABORA TEST S					V/L	TER. F.		DN CO NUAL''		2	
1201 0	CHEW			· · · · · · · · · · · · · · · · · · ·						HARGING TO) 5 Y 5 T
8. INDUSTRIA						ONE	THE	E TOP	1 K/C.	JUICE /	ZAN
B. POPULATI	ON EQUIV		D) OF INDU	STRIAL WAS	TES (pe)	C. POPULA		VALENT (SS) OF INDUS	TRIAL WAST	Es (pe
			5 (m¢d)						RISTICS OF	INDUSTRIAL	
D. VOLUME O						E. COMPOS		CHARACIE			LYAS
							T U/L				
. 04 F. MAIN DIFF	949 /	MGD XPERIENCE	AVG.	USTRIAL WA	ASTÉ (expla	FRUI	T U/L	STE,		an managan ang ang ang ang ang ang ang ang a	
. 04 F. MAIN DIFF SOX	949 / ICULTY E: AE	MGD XPERIENCE DIATON	AVG.	EART	TH G	EDUI ET 7	T U/L	STE , Dons	With	an an a suit an an an an air an air an air an	
. 04 F. MAIN DIFF SOX	949 / ICULTY E: ME PING	MGD XPERIENCE DIATON CAUSIN	AVG.	5 EA/27 0. 70	TH G DROP	EDUI ET 7	T U/L	DONS	With	an an a suit an an an an air an air an air an	
, 04 F. MAIN DIFF SOX TRAF	949 / ICULTY E: ME PING	MGD XPERIENCE DIATON CAUSIN	AVG.	5 EA/27 0. 70	TH G DROP	EQUI ET 7 OVER	T U/L D LAG 2 LOAL	DONS	With	an an a suit an an an an air an air an air an	
, 04 F. MAIN DIFF SOX TRAA G. HAVE INDU	949 1 ICULTY E ME PING USTRIAL E	MED DIATON CAUSIN FFLUENT I	AVG.	BEART	ТН 6 Даор.	EDUI EF 7 OVER	7 U/L D LAG 2 LOAL NO (11	0013 0013 01146 . ves, how?)	With	an an a suit an an an an air an air an air an	
. 04 F. MAIN DIFF SOX TRAM G. HAVE INDU	949 1 ICULTY E: NE PING USTRIAL E	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO	AVG. D WITH INE ACIOUS C D.C PROBLEMS D ASSESS IN	D. 70 BEEN SOLVE	TH COLOR	EDUI ET 7 OVER	T V/L D LAG D LAG	DONS DING ves, how?)	<i>KitH</i>	175	
. 04 F. MAIN DIFF SOR TRAG G. HAVE INDU	949 / ICULTY EX DE DING USTRIAL E OR METHO NO CHARG	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY	AVG. D WITH INC ACIONS C D.C PROBLEMS D ASSESS IN PRO	BEART		TDUI CET 7 OVER VES	T U/L D LAG D LAG	DOALS DING . Ves, how?) propriate bo	KITH x) RGE BASED	ITS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU	949 / ICULTY EX ME PING USTRIAL E OR METHO NO CHARG CHARGED	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON	AVG. AC. O. S PROBLEMS DASSESS IN PROB BOD	BEEN SOLVE	ASTE TREA	TOUT TOUT TOUT TYES ATMENT COS ARGE BASED	T U/L D LAG D LAG	DOALS DING . ves, how?) propriate bo	KITH x) RGE BASED	175	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU	949 / ICULTY EX ME PING USTRIAL E OR METHO NO CHARG CHARGED	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON	AVG. AC. O. S PROBLEMS DASSESS IN PROB BOD	D. 70 BEEN SOLVE	ASTE TREA	TOUT TOUT TOUT TYES ATMENT COS ARGE BASED	T U/L D LAG D LAG	DOALS DING . ves, how?) propriate bo	KITH x) RGE BASED	ITS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU	949 / ICULTY EX ME PING USTRIAL E OR METHO NO CHARG CHARGED	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON	AVG. AC. O. S PROBLEMS DASSESS IN PROB BOD	BEEN SOLVE	ASTE TREA	TOUT TOUT TOUT TYES ATMENT COS ARGE BASED	T U/L D LAG D LAG	DOALS DING . ves, how?) propriate bo	KITH x) RGE BASED	ITS	
. 04 F. MAIN DIFF SOA 7RAA G. HAVE INDU 9A. METHOD O 0 0 0 0 0 0 0 0 0	949 / ICULTY EX ME PING USTRIAL E OR METHO NO CHARG CHARGED ON HOW C	ASED ON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS	AVG. AC. O. C. PROBLEMS DASSESS IN PROBLEMS DASSESS IN PROBLEMS COLLECTE	BEEN SOLVE DUSTRIAL W PERTY TAX	ASTE TREA WA CHA Ge, sliding s	TDUI OVER OVER TER USE ASS ARGE BASED cale, etc.)	T U/L D LAG D LAG	DOALS DING . ves, how?) propriate bo	KITH x) RGE BASED	ITS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD (COMMENT 9B. IS INDUST 10. WHO PROV	949 / ICULTY EX	ASD ATON ASSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN TAL INSTRU	AVG. D WITH INC AC VOVS AC DO PROBLEMS D ASSESS IN PROB BOD COLLECTE ACE IN EFF CTION IN T	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN	ASTE TREA (ASTE TREA WA CHA ge, sliding s	TDUI T T T T T T T T T T T T T	T U/L D LAG D LAG D NO (11 ST (check ap D SS SSMENT D ON SS	DONS DONS ves, how?) propriate bo CHAR OTHR	KITH x) RGE BASED	ITS	
. 04 F. MAIN DIFF SOX TRAM G. HAVE INDU 9A. METHOD (0 COMMENT 9B. IS INCUST	949 / ICULTY EX	ASD ATON ASSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN TAL INSTRU	AVG . D WITH INC AC D.C PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS COLLECTE NCE IN EFF CTION IN T	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN	ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE	TDUI COVER OVER TYES ATMENT COS TER USE ASS ARGE BASEL cale, etc.)	T U/L D LAG D NO (11 ST (check ap DESSMENT D ON SS	DONS DONS ves, how?) propriate bo CHAR OTHR	KITH x) RGE BASED	ITS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD (0 COMMENT 9B. IS INDUST 10. WHO PROV FU NO2TA 11. IS A MANUA	949 / ICULTY EX NE PIALS USTRIAL E OR METHO NO CHARG CHARGED ON HOW C RIAL WAST IDED INITE AL OF PRA	ACTICE OR	AVG. D WITH INC AC D.C PROBLEMS D ASSESS IN PROB BOD COLLECTE NCE IN EFF CTION IN T TER	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT FOLUT / DU	ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE () CHA	TDUI TO TT TT TE TE TE USE ASE ARGE BASEL Cale, etc.) TY E PLANT? TPOL IF YES, WHO	T U/L D LAG D LAG D LAG D LAG D NO (11 ST (check af SESSMENT D ON SS D NO ASSOC	DOALS DING . ves, how?) propriate bo CHAR OTHE	XITH x) RGE BASED ER METHOD	ITS ON FLOW S (describe)	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O 9A. METHOD O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	949 / ICULTY EX PIALS DSTRIAL E DSTRIAL E OR METHO NO CHARG CHARGED ON HOW C RIAL WAST IDED INIT: H/K/ES AL OF PRA YES	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TE ORDINAN CAUSIN CHARGE IS TE ORDINAN CAUSIN CAUSIN CAUSIN FFLUENT I DATON CAUSIN FFLUENT I DATON CAUSIN CAUSIN CAUSIN FFLUENT I DATON CAUSIN C	AVG. D WITH INC AC U OUS AC D.C PROBLEMS D ASSESS IN PROB BOD COLLECTE NCE IN EFF CTION IN T TER	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT FOLLT / DI ONS AVAILA	ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE CHA BLE?	TDUI COVER OVER TER USE ASS ARGE BASED Cale, etc.) TPOL TPOL IF YES, WHO LEZ	T U/A D LAG D LAG NO (II SESSMENT D ON SS NO NO ASSOC	DOALS DOALS DING res, how?) propriate bo CHAR CHAR CHAR OTHE NO PROVIDE AL	WITH x) RGE BASED ER METHOD ED IT? ASS	ITS ON FLOW IS (describe)	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O 9A. METHOD O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	949 / ICULTY EX PIALS DSTRIAL E DSTRIAL E DOR METHO NO CHARG CHARGED ON HOW C RIAL WAST IDED INITE AL OF PRA PES OF MAN-F	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TE ORDINAN CAUSIN CHARGE IS TE ORDINAN CAUSIN CAUSIN CAUSIN FFLUENT I DATON CAUSIN FFLUENT I DATON CAUSIN CAUSIN CAUSIN FFLUENT I DATON CAUSIN C	AVG. D WITH INC AC D.C. PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS COLLECTE NCE IN EFF CTION IN T TER INSTRUCTI WEEK DEV	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT FOLLT / DI ONS AVAILA	ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE CHA BLE?	TDUI COVER OVER TER USE ASS ARGE BASED Cale, etc.) TPOL TPOL IF YES, WHO LEZ	T U/A D LAG D LAG NO (II SESSMENT D ON SS NO NO ASSOC	DOALS DOALS DING res, how?) propriate bo CHAR CHAR CHAR OTHE NO PROVIDE AL	WITH x) RGE BASED ER METHOD ED IT? ASS	ITS ON FLOW IS (describe)	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O 9A. METHOD O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	949 I ICULTY E DISTRIAL E DISTRIAL E OR METHO NO CHARGED ON HOW C CHARGED ON HOW C CHARGED ON HOW C CHARGED ON HOW C CHARGED ON HOW C CHARGED OF MAN-H MAH	MED XPERIENCE DIATON CAUSIN FFLUENT I DS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TO NO	AVG. D WITH INC AC D.C PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS COLLECTE ACE IN EFF CTION IN T TER INSTRUCTI WEEK DEVI 5	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT FOLLT / DI ONS AVAILA	ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE CON OF TH	TDUI CT VES VES ATMENT COS TER USE ASS ARGE BASED Cale, etc.) VES E PLANT? (TPOL IF YES, WHO LEX VORK AND	T U/L D LAG D LAG D LAG D LAG D LAG D NO (11 ST (check ap SESSMENT D ON SS D NO SS D NO SS D NO SS D NO MO ASSOC D MO ASSOC D MO ASSOC D MO ASSOC D MO ASSOC D MO ASSOC	DOALS DOALS DING . res, how?) propriate bo CHAF CHAF OTHE NCE OF RE	WITH x) RGE BASED ER METHOD ED IT? D A52 CORD 5 AN	ITS ON FLOW IS (describe)	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O 9A. METHOD O 11 COMMENT 9B. IS INDUST 10. WHO PROV 11. IS A MANUA 12. ESTIMATE	949 I ICULTY E DISTRIAL E DISTRIAL E OR METHO NO CHARGED ON HOW C CHARGED ON HOW C CHARGED ON HOW C CHARGED ON HOW C CHARGED ON HOW C CHARGED OF MAN-H MAH	MED XPERIENCE DIATON CAUSIN FFLUENT I DS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TO NO	AVG. D WITH INC AC D.C PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS COLLECTE ACE IN EFF CTION IN T TER INSTRUCTI WEEK DEVI 5	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT POLUT / DI ONS AVAILA OTED TO LA	ASTE TREA (ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE CHA BLE? NEORATORY ASSOCIATORY ASSOCIATORY ASSOCIATORY ASSOCIATORY	TDUI TO TT TT TT TT TT TT TT TT TT	T U/L D LAG D LAG D LAG D LAG D LAG D NO (11 ST (check ap SESSMENT D ON SS D NO SS D NO SS D NO SS D NO MO ASSOC D MO ASSOC D MO ASSOC D MO ASSOC D MO ASSOC D MO ASSOC	DOALS DOALS DING res, how?) Propriate bo CHAR CH	WITH x) RGE BASED ER METHOD ED IT? D A52 CORD 5 AN	ITS ON FLOW ON FLOW OS (describe) DI GEPORTS DREPORTS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O 9A. METHOD O 11 COMMENT 9B. IS INDUST 10. WHO PROV 11. IS A MANUA 12. ESTIMATE	949 / ICULTY EX PING USTRIAL E OR METHO NO CHARGED ON HOW C RIAL WAST IDED INITI IDED INTI IDED INTI IDED INTI IDED INTI IDED INTI IDED INTI IDED IN	MED XPERIENCE DIATON CAUSIN FFLUENT I DS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TO NO	AVG. D WITH INC AT A CONSTRUCTION OF S PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT POLUT / DI ONS AVAILA OTED TO LA	ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE BLE? BLE? BLE? BLE? ADDATORY	TDUI TO TT TT TT TT TT TT TT TT TT	T U/A D LAG D	DOALS DOALS DING res, how?) Propriate bo CHAR CH	WITH x) RGE BASED ER METHOD ER METHOD CORD 5 AN CORD 5 AN DA "F") EIN YEARS OYED AT	ITS ON FLOW ON FLOW OS (describe) DI GEPORTS DREPORTS	
. 04 F. MAIN DIFF SOA TRAFA G. HAVE INDU 9A. METHOD O 9A. METHOD O COMMENT 9B. IS INDUST 10. WHO PROV COMMENT 11. IS A MANUA 12. ESTIMATE JOB CA	949 / ICULTY EX PING DSTRIAL E OR METHO NO CHARGED ON HOW C RIAL WAST IDED INITI IDED INITI AL OF PRA YES OF MAN-F MAL D TEGORY ENDENT	MED XPERIENCE DIATON CAUSIN FFLUENT I DS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TO NO	AVG. D WITH INC AT A CONSTRUCTION OF S PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT POLUT / DI ONS AVAILA OTED TO LA	ASTE TREA (ASTE TREA (ASTE TREA WA CHA ge, sliding s NFORCED? ION OF THE CHA BLE? NEORATORY ASSOCIATORY ASSOCIATORY ASSOCIATORY ASSOCIATORY	TDUI TO TT TT TT TT TT TT TT TT TT	T U/A D LAG D	DOALS DOALS DING res, how?) Propriate bo CHAR CH	WITH x) RGE BASED ER METHOD ER METHOD CORD 5 AN CORD 5 AN DA "F") EIN YEARS OYED AT	ITS ON FLOW ON FLOW OS (describe) DI GEPORTS DREPORTS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O O COMMENT 9B. IS INDUST 10. WHO PROV 11. IS A MANUA 12. ESTIMATE JOB CA 1. SUPE FINT	949 / ICULTY EX PING DSTRIAL E DOR METHO NO CHARG CHARGED ON HOW C RIAL WAST IDED INIT: HAL WAST IDED INIT: HAL VES OF MAN-F D TEGORY ENDENT RS	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TO TO TO TO TO TO TO TO TO TO	AVG. D WITH INC AT A CONSTRUCTION OF S PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT POLUT / DI ONS AVAILA OTED TO LA	ASTE TREA (ASTE T	TDUI TO TT TT TT TT TT TT TT TT TT	T U/A D LAG D	DOALS DOALS DING res, how?) Propriate bo CHAR CH	WITH x) RGE BASED ER METHOD ER METHOD CORD 5 AN CORD 5 AN DA "F") EIN YEARS OYED AT	ITS ON FLOW ON FLOW OS (describe) DI GEPORTS DREPORTS	
. 04 F. MAIN DIFF SOA TRAA G. HAVE INDU 9A. METHOD O COMMENT 9B. IS INDUST 10. WHO PROV 11. IS A MANUA 12. ESTIMATE JOB CA 1. SUPERINT 2. OPERATOS	949 / ICULTY EX DE PING DSTRIAL E DOR METHO NO CHARG CHARGED ON HOW C RIAL WAST IDED INITE AL OF PRA YES OF MAN-H MAL D TEGORY ENDENT RS DRY TECHN	MED XPERIENCE DIATON CAUSIN FFLUENT I OS USED TO E BY CITY BASED ON CHARGE IS TE ORDINAN CHARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TE ORDINAN CAUSING TO HARGE IS TO TO TO TO TO TO TO TO TO TO	AVG. D WITH INC AT A CONSTRUCTION OF S PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT POLUT / DI ONS AVAILA OTED TO LA	ASTE TREA (ASTE T	TDUI TO TT TT TT TT TT TT TT TT TT	T U/A D LAG D	DOALS DOALS DING res, how?) Propriate bo CHAR CH	WITH x) RGE BASED ER METHOD ER METHOD CORD 5 AN CORD 5 AN DA "F") EIN YEARS OYED AT	ITS ON FLOW ON FLOW OS (describe) DI GEPORTS DREPORTS	2 <i>TE</i>
. 04 F. MAIN DIFF SCA TRAF G. HAVE INDU 9A. METHOD C COMMENT 9B. IS INDUST 10. WHO PROV 11. IS A MANUA 12. ESTIMATE JOR CA 1. SUPERINT 2. OPERATO 3. LABORATO	949 / ICULTY EX DE PIALS DSTRIAL E OR METHO NO CHARGED ON HOW C CHARGED ON HOW C RIAL WAST IDED INITI HAL WAST IDED INITI HAL OF PRA YES OF MAN-F MAL OF TEGORY ENDENT RS DRY TECHN S	ACTICE OR NO NO NO NO NO NO NO NO NO NO NO NO NO	AVG. D WITH INC AT A CONSTRUCTION OF S PROBLEMS D ASSESS IN PROBLEMS D ASSESS IN PROBLEMS	BEEN SOLVE DUSTRIAL W PERTY TAX D (fixed charge ECT AND EN HE OPERAT POLUT / DI ONS AVAILA OTED TO LA	ASTE TREA (ASTE T	TDUI TO TT TT TT TT TT TT TT TT TT	T U/A D LAG D	DOALS DOALS DING res, how?) Propriate bo CHAR CH	WITH x) RGE BASED ER METHOD ER METHOD CORD 5 AN CORD 5 AN DA "F") EIN YEARS OYED AT	ITS ON FLOW ON FLOW OS (describe) DI GEPORTS DREPORTS	

· · · · · · · · · · · · · · · · · · ·					RY CONTROL					
Enter test codes opposite addition to the test code. CODES		items. If any	of the be	elow t	tests are used					X'' in
1 - 7 or more per week		2, or 3 per wee					uarterly		ally	
2 - 4, 5 or 6 per week	4 – as	required	0	- 1 p	er month		emi-Annually	-1		
ITEM	RAW	PRIMARY EFFLUENT	MIXEI		FINAL	RAW	SUPER- NATANT	DIGES	TOR	RECEIVING STREAM
1. BOD	3	,			3					
2. SUSPENDED SOLIDS										
3. SETTLEABLE SOLIDS	2				Z			_		
4. SUSPENDED VOLATILE										
5. DISSOLVED OXYGEN	2				2			_		
6. TOTAL SOLIDS			1999 B.			· .				
7. VOLATILE SOLIDS							_	_		
8. p ^H	2				2					
9. TEMPERATURE	2				2			_		
10. COLIFORM DENSITY										
11. RESIDUAL CHLORINE	2				2					
12. VOLATILE ACIDS										
13. M. B. STABILITY										
14. ALKALINITY							_			
15.										
16.										
17.							· ·			
18.										
19.			•							
	1	F. OPERATION	AND MAI	NTEN	ANCE COST P	OR PLANT			1	·
YEAR OF OPERATION	SALARIES/W	AGES ELECT			HEMICALS	MAINTENA	L	RITEMS		TOTAL
MOST CURRENT YEAR 197	4	2 466	Ø			\$5000	·		19	, z4Ø
PRIOR YEAR 1973.	*8200	466	Ø	×4.	,000	*1000			17,	860
PRIOR YEAR 1972	\$ 1000	»		\$	100	\$ 500	8		16	600
PRIOR YEAR 1971	5 500				Miletoriani internetoriani Miletoriani internetoriani		·			500
EVALUATION PERF	ORMED BY				TITLE			ORGAN	IZATI	0N'
										DATE
INFORMATION FUR				ITLE			ORGANIZATION			MARCH
DAVID L. SIM	MER	5U P1	UT	1LM	IES.	TOWN OF CASHIM			11.E	15 1970
		1				1				J

Sport and a second seco			
FWPCA-	12 (Rev.	4-63)	(Page 5)

	G. NOTATIONS BY EVALUATOR
ADDITIONAL REMAR	KS (II remarks teler to a particular item, identify by number)
2. GENERAL COMMENT	S ON HOUSEKEEPING AND MAINTENANCE
3. REQUIREMENTS OF	HIGHER AUTHORITY
3A. DOES THE PL	ANT PROVIDE THE DEGREE OF TREATMENT PRESENTLY REQUIRED BY THE STATE? (If no, explain)
T YES	NO
38. ARE THERE A	NY PENDING ACTIONS (enforcement conferences, change in water quality standards, etc.) THAT WOULD REQUIRE OF TREATMENT BY THIS PLANT?
YES	NO (II yes, explain)
	TATE INSPECTIONS OF PRESENT PLANT TO DATE.
JU. NUMBER OF S	TATE INSPECTIONS OF TRESENT FEANT TO DATE.

4. IS ANY FOLLOW-THRU ACTION REQUIRED TO (1) CORRECT DEFICIENCIES IN THE PLANT OR ITS OPERATION OR (2) RESOLVE INDUSTRIAL WASTE PROBLEMS? (II yes, describe required corrective action) YES NO