TO:	John Arnquist, Ron Devitt	State of
FDOM	Darrel Anderson	Washington
FROM:	Darret Aliderson	Department of Ecology
SUBJECT:	Metaline Falls STP	
DATE:	April 23, 1973	

On November 16, 1972, an STP survey was conducted at Metaline Falls, Washington. The survey period was from 0830 to 1500 hours.

Three lagoons are used for sewage with no chlorine added. The lagoons are in poor condition, grass and weeds are present in all three lagoons. Security is also poor, with no fence around the lagoon area.

Percent reduction in sewage is excellent. Five day BOD is 89%, COD 80%, and total solids 60%. PH averaged at 7.4.

DA:bj

18 IN - SOMETHING WRONG

## STP SURVLY REPORT FORM

### (EFFICIENCY STUDY)

City Metaline Fal Receiving Water				Ser	ulation ved Enginee		Cap	nelty	O.III
Date11-16-72	Sur	rvey Pe	riod 08					Darrel And	erson
Comp. Sampling Freq Sampling Alequot					ndition				
Total Flow 288,0	000 g/day			NT OPERATI		d_ 90 <sup>0</sup>	"V" not	ch weir	
	0/d		. 1000 Post	& 1500				of Min	0830
	0/d	ay chlorin	Post			#/day		of Min	0830
Pre Cl <sub>2</sub>	0/d	ay chlorin	Post	C1 <sub>2</sub> ——		#/day		of Min	0830
Pre Cl <sub>2</sub> Determinations Temp. °C	0/d. No Max. 9.0	in  Nin.  8.0	Post ne FI fluent Mean 8,5	ELD RESULT	Max.	_0/day	Effluent		0830
Determinations	0/da No Max.	chlorin In Min.	Post Post ne FI fluent	Cl <sub>2</sub>	S Max.	Ø/day	Effluent   Mean   5	Median 5	0830
Determinations Temp. °C pli Conductivity (unhos/cm) Settlesble	0/d. No Max. 9.0	In Nin. 8.0 7.3	Post ne FI fluent Mean 8.5 7.4	ELD RESULT	Max. 5 7.6	Min. 5	Effluent   Mean   5	Median 5 7.2	0830

#### LABORATORY RESULTS ON COMPOSITE IN PPM

	Influent	Effluent	Z Reduction
Laboratory Number	500 V =2 50 124	plengal comment	
	72-4548	72-4550	
5-Day BOD	18	< 2	89
COD	68	14	80
r.s.	275	112	60
C.N.V.S.	226	94	58
.s.s.	114	2	98
I.V.S.S.	77	0	100
011	8.4	7.6	
Conductivity	210	180	
Curbidity	30	3	

		BACTERI	OLOGICAL RESULTS		
Ŋ	la <sub>2</sub> S <sub>2</sub> O <sub>3</sub> added to		chlorine Aftermir	1.	
Γ					
	I.AB Ø	SAMPLING TIME	COLONIES/100 NLS (NF)	the second second second second second	esidual
-	72-4544	0845	10.000		(after secs
-	72-4545	0945	16,000	No	re
-	72-4546	1245	9,000	"	
	72-4547	1445	4,500	- 11	
		1773	4.500		-
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# STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

WATER QUALITY LABORATORY

DATA SUMMARY

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Source METALINE FALLS	LAGO	en/				Ço	llected	Ву	***********
Date Collected_ #1-16-72									٤. ٤٤
Log Number: 7245	44	45	46	4,5	48	LQ.	<b>5</b> 0		STORET
Station:	845	945	1245	Jugs	Carte 1 m F o 1954 —	हार्ड के किया है। 1985 के 1984 1985 के 1985	Comp EPP CYlin		
pE	_	-		-	4.4	2.4	2.6		00403
Turbidity (JTU)			_	<u></u>	30.	. 15.	3.		00070
Conductivity (4minos/cm)@25c	-	, , , , , , , , , , , , , , , , , , ,		-	210.	150,	180		00095
COD	-		-		68.	32.	14.		00340
BOD (5 day)			_	-	(4	10.	< 2.		00310
Total Coliform (Col./100ml)	16,000	6,000	9,0000	4,500					31504
Fecal Coliform (Col./100ml)	12,000	300	460	160	ļ 				31616
NO3-N (Filtered)									03620
NO2-N (Filtered)				į		L			00615
NH3-N (Unfiltered)							;		03610
T. Kjeldshl-N (Unfiltered)									00625
O-PO4-P (Filtered)									00671
Total PhosP (Unfiltered)	· 								00665
Total Solids		<u> </u>		-	275.	147	ſ12.		00500
Total Non Vol. Solids			-	~	226.	/32.	94.	_	
Total Suspended Solids	~	-		·-	114.	45	2.		00530
Total Sus. Non Vol. Solids	~	_	-	-	72.	30	O		
<u> </u>									
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#### Bulaite E U.S. DEPARTMENT OF THE INTO RIGH. FEDERAL MATER POLLUTION CONTROL ASSISTRATION FORMAT A PROBLEM IN THE STATE OF THE STATE O SEWAGE TREATMENT PLANT OPERATION AND MAINTENANCE PRACTICES QUESTIONNAIRE CHECK ONE PLANT OUSERIPTION CODE (For Otherns Class Only) DATE OF AUDIT 11.11 IST AUDIT FRE-AUDIT A. GENERAL INFORUATION 1. PROJECT (State, Number) scarc of PHOJECT (new plant, additions, PIC.) T. PLANT LOCATION (City, county) DENTIFICATION OF AREAS SERVED PERG ORIVIE 111/01/14 / VCC3 + PIND ORE ILL KANNES HOUSE 3. POPULATION PHACTION OF AREA HOPULATION 30. PLANT DESIGN (population equivalent) SE BEHYED BY PLANT (domestic) 4. TYPE OF COLLECTION SYSTEM AB ESTIMATED PLOY CONTRIBUTED BY SURPACE OR GROUNG WATER (INDICEDOR, 1954) COMBINED . SEPARATE □ вотн B.YEAH COMMUNITY BEGAN BENACE 5 YEAR PRESENT SYSTEM PLACED IN OPERATION 6A. SEWER SC. ANCILLARY YORKS 1263 TA. SIZE OF PLANT SITE (SCIES) B. APPROXIMATE AREA LEFT FOR EXPANSION (PCIPA) OR. IN THE SPACE PROVIDED BY LOW FUNDISH A SIMPLIFIED FLOW DIAGRAM ON A WRITTEN DESCRIPTION OF THE PLANT UNITS IN STRUCTURE SUFFICIENT OF CHART UNITS IN STRUCTURE SUFFICIENT OF CELLS. INDICATE WHETHER FLOW TO AND FROM PLANT IS BY PUMPING OR GRAVITY. 49. NOTE ANY SIGNIFICANT OR UNIQUE PROCESSING CONDITIONS P. RECEIVING STREAM MA, NAME OF STREAM PE STREAM FLOW IS INTERSTATE .... INTRASTATE PERSONAL ":NTERMITTENT MATURAL REGULATED COASTAL B. CURRENT PERFORMANCE AND PLANT LONDING INFORMATION IA. ANNUAL AVERAGE DAILY FLOW MATE $1B - P(t, k), \ F_k \cap \sigma \in \Delta_k \cap S \cdot m_k(d)$ IC. WINIMON FLOW \$4 TE (mgd) DAY WEATHER NET WEATHER 2. AYERAGE BOD OF RAN SEARCE IS DAY 39 CJ (APM) D. AVERAGE SETTLEABLE SOLIDS OF HAWSEHASS, (SHOFF Come) 4. AVERAGE SUSPENDED SQUIDS OF RAW SEWADE (M.//) S. AVERAGE COLIFORM DENSITY OF HAN ECHAGE (MIPP 100 MI) 6. ANNUAL AVERAGE BLANT SECURITION FABRUAR SOCIOS ON FEB. ARTT LCASEN SOCIOS ON FEB. (8) 84 BSD 15 4D. COLIF YOM OF NAIT YOU

FWPEA-12 (Rev. 4-69)

A PURPOSE OF CHLORINATION  B. TYPE OF CHLORINATION  C. POINT OF APPLICATION OF CHLORINE  B. AVERAGE FEED RATE OF CHLORINE (ID/Cay)  G. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (ID)  ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAR SEWAGET  ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAR SEWAGET  A. PREQUENCE (Issues munifile)  P. AVERAGE MINIMUM SUPPLY (Issues munifile)  P. AVERAGE IN C. REASON FOR BYPASSING  D. REASON FOR BYPASSING	FOR MAJOR PUMPING FACILITIES? YES TO NO	7B. ADEQUATE ALARM SYSTEM FOR POWER OR LOUISMENT FAILURES? [ ] YES NO
B. TYPE OF CHLORINATOR  C. POINT OF APPLICATION OF CHLORINE  EL AVERAGE FEED RATE OF CHLORINE (18/2sy)  F. CHLORINA ERSONAL IN EFFLUENT  S. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (IX)  PPIN AT END OF  MINITES  MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (IX)  PPIN AT END OF  MINITES  MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (IX)  A. PREDUCKE (IMPROMENTAL)  D. ANTER CALLITIES PROVIDED FOR COMPLETE RYPASS OF RAR SERAGE?  A. PREDUCKE (IMPROMENTAL)  D. ESTIMATED FLOR RATE DURING BYPASS IS  SEC. DOCES SENACE OVERFLON IN DRY REATHER!  DEVOND NYDRAULIC CAPACITY OF PLANT BY  S. ASENCIES NOTIFIED OF SYPASS ACTION  F. TYPE OF DIVERSION STRUCTURE  S. ASENCIES NOTIFIED OF SYPASS ACTION  DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (If no., Ass. INs. Goussel Any operational problems?)  D. AN ARE RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  S. ARE RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  S. ANER RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  S. ANER RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  S. ANER RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  S. ANER RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  S. ANER RACE FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no., explain)  A. OBSERVED APPEARANCE AND CONGITION OF EFFLUENT, RECEIVING STREAM, OR CRAINASE MAY  A. OBSERVED APPEARANCE AND CONGITION OF EFFLUENT, RECEIVING STREAM, OR CRAINASE MAY	8. ARE CHLORINATION FACILITIES PROVIDED?   YES [1] NO IF YES, ANSWER BA THNU G	IF YES, IS CHLORINATION CONTINUOUST YES NO
B. TYPE OF CHLORIMATOR  C. POINT OF APPLICATION OF CHLORIME (IN/day)  IF. CHLORIME RESIDUAL IN EFFLUENT  PIPM AT END OFMINUTES  B. MINIMUM SUPPLY OF CHLORIME STORED ON PREMISES (B)  ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF HAR SERAGET  VES NO IF YES, ANSSER A THING OB ELOW, ANSWER H IN EITHER CASE.  A. FREQUENCY (INDER SIMPLY)  ID. ENTIMATED FLOW HATE DUTING DYPASS IN IN PROPERTY (II NO. PRICEISM STUDIOLOGY OF PLANT BY  F. TYPE OF DUTING DYPASS INDIVIDUAL PLANT UNITS! (II No. has this caused any operational problems?)  OB. ARE BACK TYPE OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1, UMES OF TREATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM MITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY? (II yes, explain)  VES NO		e e
B. TYPE OF CHLORINATOR  C. POINT OF APPLICATION OF CHLORINE  E. AYERAGE FECO RATE OF CHLORINE (B/dot)  F. CHLORINE RESIDUAL IN EFFLUENT  PFINATEND OF  WINUTES  ARE FACILITIES PROVIDED FON COMPLETE BYPASS OF RAN SCRAGET  YES NO IF YES, ANSICRA THRUE OF ELOR, ANSWER H IN EITHER CASE.  A. FREQUENCY (Times complete of the provided of the provided of the provided fon complete of the provided of the provided fon complete of the provided of the prov	B. TYPE OF CHLORINATOR  C. POINT OF APPLICATION OF CHLORINE  E. AVERAGE FEED RATE OF CHLORINE (Ib/day)  BF. CHLORINE RESIDUAL IN EFFLUENT  PPM AT END OF MINUTES  ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAX SEWAGET  A. FREQUENCE (Issues munifily)  D. ESTIMATED FLOW RATE DURING BYPASS IS  WITHIN HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT BY  H. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II no; has this caused any operational problems?)	
E. POINT OF APPLICATION OF CHLORINE  (E. AVERAGE FECO RATE OF CHLORINE (Ib/day)  ST. CHLORINE RESIDUAL IN FFFLUENT  ST. AVERAGE OF CHLORINE STORED ON PREMISES (Ib)  ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAR SERAGET  ST. AVERAGE DURATION (BELOW, ANSWER H IN EITHER CASE.  A. FREQUENCY (Times combility)  ST. RESPONDENCY (Times combility)  ST. AVERAGE DURATION (BELOW, ANSWER H IN EITHER CASE.  A. FREQUENCY (Times combility)  ST. RESPONDENCY CAPACITY OF PLANT  BELOODS SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  YES NO  ST. ODES SEWAGE OVERFLOW IN DRY REATHERY  (II RO. ARE IND.  OTHER (APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAIMAGE WAY  4. ORSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAIMAGE WAY		
E. AVERAGE FEED RATE OF CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE RESIDUAL IN EFFLUENT  G. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE RESIDUAL IN EFFLUENT  AFF. CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE STORED ON IF YES, ANSWER H IN EITHER CASE.  A. FREQUENCY (IMPRESSED)  BY AVERAGE DURATION (ROUTE)  C. ESTIMATED FLOW RATE DURING BYPASS IS  WITHIN HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT BY  F. TYPE OF DIVERSION STRUCTURE  BO. ABENCIES NOTIFIED OF BYPASS ACTION  N. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II Ro, has this caused any specifical problems?)  A. ARE BACK FLOW CEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (II Ro, explain)  BB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE  PRESSURE OPERATED  PHYSICAL DISCONNECT  OTHER(apecily)  3. MAYE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM. ON DRAINAGE WAY	B. TYPE OF CHLORINATOR	
E. AVERAGE FEED RATE OF CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE RESIDUAL IN EFFLUENT  G. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE RESIDUAL IN EFFLUENT  AFF. CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE STORED ON PREMISES (B)  AFF. CHLORINE STORED ON IF YES, ANSWER H IN EITHER CASE.  A. FREQUENCY (IMPRESSED)  BY AVERAGE DURATION (ROUTE)  C. ESTIMATED FLOW RATE DURING BYPASS IS  WITHIN HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT BY  F. TYPE OF DIVERSION STRUCTURE  BO. ABENCIES NOTIFIED OF BYPASS ACTION  N. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II Ro, has this caused any specifical problems?)  A. ARE BACK FLOW CEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (II Ro, explain)  BB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE  PRESSURE OPERATED  PHYSICAL DISCONNECT  OTHER(apecily)  3. MAYE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM. ON DRAINAGE WAY	C. POINT OF APPLICATION OF CHI ORINE	len can avoire contract of the contract of
ARE FACILITIES PROVIDED FOR COMMLETE BYPASS OF RAS SERAGET  YES NO IF YES, ANSTER A THRU O BELOW, ANSWER HIN EITHER CASE.  A. PREQUENCY (times semiship)  PR. AVERAGE DURATION (hours)  SC. REASON FOR BYPASSING  D. ESTMATED FLOW RATE DURING BYPASS IS  WITHIN HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT BY  F. TYPE OF DIVERSION STRUCTURE  SC. AGENCIES NOTIFIED OF SYPASS ACTION  TYPE OF DIVERSION TO BYPASS INDIVIDUAL PLANT UNITS! (If no, has this caused any speralional problems?)  A. ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (If no, explain)  SC. CHECK TYPE OF SACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF TREATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY! (If yes, explain)  YES HO  4. ORSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR GRAINAGE WAY	CITOTION OF STREET, ON CHECKING	
ARE FACILITIES PROVIDED FOR COMPLETE DYPASS OF RAR SCHAGET	E. AVERAGE FEED BATE OF CHLORINE (lb/day)	
A. PREQUENCY (times combin)  A. PREQUENCY (times combin)  B. AVERAGE DURATION (ROUZ)  B. AVERAGE OVERFLON IN DRY NEATHERT  BETONG HYDRAULIC CAPACITY OF PLANT BY  BETONG HYDRAULIC CAPACITY OF PLANT BY  B. ASENCIES NOTIFIED OF BYPASS ACTION  W. DO OPERATORS MAYE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II no. has this caused any operational problems)  YES NO  DA. ARE BACK FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (II no. explain)  YES NO  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF TREATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY OGON COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  YES NO  4. ORBERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY	G. MINIMUM SUPPLY OF CHLORINE STORED ON PREMISES (III)	PEM AT END OF MINUTES
A. PREQUENCY (times countries)  J. AVERAGE DURATION (hours)  D. ESTIMATED FLOW RATE DURING BYPASS IS  WITHIN HYDRIAULIC CAPACITY OF PLANT  DEYOND HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT  BEYOND HYDRAULIC CAPACITY OF PLANT  P. TYPE OF DIVERSION STRUCTURE  D. AGENCIES NOTIFIED OF BYPASS ACTION  F. TYPE OF DIVERSION STRUCTURE  D. AGENCIES NOTIFIED OF BYPASS ACTION  I. DO OPERATORS HAVE OPTION TO BYPASS INDIVIOUAL PLANT UNITS! (II no. has this caused any operational problems?)  D. ARC HACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS TO CITY WATER SUPPLY? (II no. explain)  D. ARC HACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS TO CITY WATER SUPPLY? (II no. explain)  D. ARC HACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS TO CITY WATER SUPPLY? (II no. explain)  D. ARCHECK TYPE OF SACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE  PRESSURE OPERATED  PHYSICAL DISCONNECT  OTHER(specify)  1. USES OF TREATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. HAVE THERE BEEN ANY ODDR COMPLAINTS BEYOND THE PLANT PROPERTY? (II yes, explain)  A. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, ON ORBINAGE WAY	ARE FACILITIES PROVIDED FOR COMPLETE BYPASS OF RAR SET	WAGET
OR ESTIMATED FLOW RATE DURING BYPASS IS    WITHIN HYDRAULIC CAPACITY OF PLANT   YES   NO      BEYOND HYDRAULIC CAPACITY OF PLANT BY   YES   NO      F. TYPE OF DIVERSION STRUCTURE   OG. AGENCIES NOTIFIED OF BYPASS ACTION      DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II no; has this caused any operational problems?)    YES   NO      OA, ARE BACK FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY? (II no, explain)      YES   NO      OB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE   PRESSURE OPERATED   PHYSICAL DISCONNECT   OTHER(specify)    1. USES OF TREATMENT PLANT EFFLUENT      OAMER YED OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL    3. HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)      YES   NO    4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR ORBINAGE WAY		
WITHIN HYDRAULIC CAPACITY OF PLANT BY    STYPE OF DIVERSION STRUCTURE   SG. AGENCIES NOTIFIED OF SYPASS ACTION	A. FREQUENCY (times municipy) PR AVERAGE DURAT	ION (hours) BC HEASON FOR BYPASSING
DEVOND HYDRAULIC CAPACITY OF PLANT BY  IF. TYPE OF DIVERSION STRUCTURE  OG. AGENCIES NOTIFIED OF BYPASS ACTION  H. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II ng. haz thiz caused any operational problems?)  YES NO  OA, ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (II no. explain)  YES NO  OBB. CHECK TYPE OF BACK FLOW DREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF THEATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. HAVE THERE BEEN ANY ODGR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  YES NO  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT. RECEIVING STREAM, OR DRAINAGE WAY	D. ESTIMATED FLOW NATE DURING BYPASS IS	SE. DOES SEWAGE OVERFLOW IN DRY WEATHERY
BG. AGENCIES NOTIFIED OF BYPASS ACTION  H. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II no, has this caused any operational problems?)  VES NO  DA, ARE BACK FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (II no, explain)  VES NO  DB. CHECK TYPL OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF THEATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  D. MAYE THERE BEEN ANY ODGR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  VES NAVE THERE BEEN ANY ODGR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  A. ORBERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY		YES NO
H. DO OPERATORS HAVE OPTION TO BYPASS INDIVIDUAL PLANT UNITS! (II no; has this caused any operational problems?)  YES NO  DA, ARE BACK FLOW DEVICES PROVICED AT ALL CONNECTIONS TO CITY WATER SUPPLY! (II no, explain)  YES NO  BB. CHECK TYPL OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF THEATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. HAVE THERE BEET ANY ODDR COMPLAINTS BEYOND THE PLANT PROPERTY! (II yes, explain)  YES THO		BG. AGENCIES NOTIFIED OF BYPASS ACTION
OA, ARE BACK FLOW DEVICES PROVIDED AT ALL CONNECTIONS TO CITY WATER SUPPLY? (If no, explain)  VES NO  BB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF THEATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEET ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY? (If yes, explain)  YES NO  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR ORAINAGE WAY		The state of the s
BB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF TREATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY ODON COMPLAINTS BEYOND THE PLANT PROPERTY? (II yes, explain)  YES NO		• '>
BB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE  DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF THEATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY ODDR COMPLAINTS BEYOND THE PLANT PROPERTY? (If yes, explain)  YES NO  R. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY		O CITY WATER SUPPLY! (II no, explain)
DOUBLE CHECK VALVE PRESSURE OPERATED PHYSICAL DISCONNECT OTHER(specify)  1. USES OF THEATMENT PLANT EFFLUENT  2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY? (If yes, explain)  YES NO  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY	L YES NO	
2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY? (II yes, explain)  YES NO  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR ORAINAGE WAY	BB. CHECK TYPE OF BACK FLOW PREVENTION DEVICE	
2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. HAVE THERE BEEN ANY ODOR COMPLAINTS BEYOND THE PLANT PROPERTY? (If yes, explain)  YES INO  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY	DOUBLE CHECK VALVE PRESSURE OPERATED	PHYSICAL DISCONNECT OTHER(specify)
2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  3. MAYE THERE BEEN ANY ODDR COMPLAINTS BEYOND THE PLANT PROPERTY? (Il yes, explain)  YES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL  4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY	I. USES OF THEATMENT PLANT EFFLUENT	
3. HAVE THERE BEEN ANY ODDR COMPLAINTS BEYOND THE PLANT PROPERTY? (If yes, explain)  YES IND  4. ORNERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY		6
A. ORBERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY	2. USES OF RECEIVING STREAM WITHIN 10 MILES OF OUTFALL	
A. ORBERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY		
A. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY		it PROPERTY? (Il yes, explain)
A. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECEIVING STREAM, OR DRAINAGE WAY		
	偿	
	4. OBSERVED APPEARANCE AND CONDITION OF EFFLUENT, RECE	TIVING STREAM, OR DRAINAGE WAY
***	51	

the second of the second court of the second c			
C MEETS ENT AND VEGETATIV	E SHOWTH IN PORDS ELBANATED	O. DANKS AND DIKES MAINTAINED (FRISHINGE)?	
TYES NO		YES NO	
AND IN GOOD HEPAIN	POLLUTED WATER SIGNS PRESENT	D. FREQUENCY OF INSPECTION BY OF LIATOR	
. WATER DEPTH (feet)			
7/5	HIGHLDW	ME DIUM	
ADEQUATE CONTROL OF DE		G. SEEPAGE REPORTED	
TYES THO		TYES THO	
YES NO	HATER CONTAMINATION FROM FOND	(II yes, give details)?	
PROBLEM T	IF YES, NAME OF SPECIES IF	J. CAN SURFACE BUN-OFF ENTER POND?	, ,
YES NO		YES NO	
	C. SUPERVISORY		
1, 15 A CONSULTING ENGINEER	HETAINED OR AVAILABLE FOR CON	SULTATION ON OPERATING AND MAINTENANCE PROBLEMS!	
YES NO I	F YES IS IT ON: CONTINUING BA	ASIS OR UPON REQUEST BASIS	
IF CONTINUING DATE WH	AT IS THE FREQUENCY OF VISITS:		
		ACTIVITIES	
Z. DO OPERATORS AND OTHER	PERSONNEL HOUTINELY ATTEND SH	ORT COURSES, SCHOOLS OR OTHER TRAINING ACTIVITIES!	
YES NO			
IF YES, CITE COURSE SPO	DNSOR AND DATE OF LAST COURSE A	ATTENDED	
17 110, 20 100 111011 07	ANY COURSES AVAILABLE TO SERVE		
		*	
3A. ARE ALL EQUIPMENT AND	PARTS OF THE PRESENT PLANT STI	ILL IN OPERATION? YES NO (II no, explain)	
1	PARTS OF THE PRESENT PLANT STI	YES NO (II no, explain)	
1		YES NO (If no, explain)	
B. ARE PROCESSING UNITS OF	PERATING AT DESIGN EFFICIENCY!	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF		YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  A. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES	PERATING AT DESIGN EFFICIENCY!  FIGULTIES WITH THE SEWAGE TREA	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  A. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES	PERATING AT DESIGN EFFICIENCY! FIGULTIES WITH THE SEWAGE TREA	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  A. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES	PERATING AT DESIGN EFFICIENCY?  FICULTIES WITH THE SEWAGE TREA  NO (It yes explain)	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  A. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES	PERATING AT DESIGN EFFICIENCY?  FICULTIES WITH THE SEWAGE TREA  NO (II yes explain)  NO (II yes, explain)	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  A. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES	PERATING AT DESIGN EFFICIENCY?  FICULTIES WITH THE SEWAGE TREA  NO (It yes explain)	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES	FIGULTIES WITH THE SEWAGE TREA NO (II yes explain) NO (II yes, explain)	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  A. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES	PERATING AT DESIGN EFFICIENCY?  FICULTIES WITH THE SEWAGE TREA  NO (II yes explain)  NO (II yes, explain)	YES NO (II no, explain)	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES	FIGULTIES WITH THE SEWAGE TREA NO (II yes explain) NO (II yes, explain)	YES NO (II no, explain)  THENT PLANTY	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES	FIGULTIES WITH THE SEWAGE TREA NO (II yes explain) NO (II yes, explain)	YES NO (II no, explain)  TMENT PLANT!	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES	FIGULTIES WITH THE SEWAGE TREA NO (II yes explain) NO (II yes, explain)	YES NO (II no, explain)  THENT PLANTY	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES  C. OPERATIONAL YES	PERATING AT DESIGN EFFICIENCY?  FIGULTIES WITH THE SEWAGE TREA  NO (It yes explain)  NO (It yes, explain)	YES NO (II no, explain)  THENT PLANTY	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES  C. OPERATIONAL YES	PERATING AT DESIGN EFFICIENCY?  FIGULTIES WITH THE SEWAGE TREA  NO (It yes explain)  NO (It yes, explain)	YES NO (II no, explain)  TMENT PLANT!	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES  C. OPERATIONAL YES	PERATING AT DESIGN EFFICIENCY?  FIGULTIES WITH THE SEWAGE TREA  NO (It yes explain)  NO (It yes, explain)	YES NO (II no, explain)  TMENT PLANT!	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES  C. OPERATIONAL YES	PERATING AT DESIGN EFFICIENCY?  FIGULTIES WITH THE SEWAGE TREA  NO (It yes explain)  NO (It yes, explain)	YES NO (II no, explain)  TMENT PLANT!	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES  C. OPERATIONAL YES	PERATING AT DESIGN EFFICIENCY?  FIGULTIES WITH THE SEWAGE TREA  NO (It yes explain)  NO (It yes, explain)	THENT PLANT!	
B. ARE PROCESSING UNITS OF  4. HAVE THERE BEEN ANY DIF  A. STRUCTURAL YES  B. MECHANICAL YES  C. OPERATIONAL YES	PERATING AT DESIGN EFFICIENCY?  FIGULTIES WITH THE SEWAGE TREA  NO (It yes explain)  NO (It yes, explain)	YES NO (II no, explain)  TMENT PLANT!	

5 ARE OPERATING HE	CONDS MAI	NTAINED!	YES NO	REPORTE	o+ 🔲	YES [7]	NO		
		· menureay		TO WHOM					
FREQUENCY MEATHER	FLOW	SLUDGE CH HANDLED	USED DIGESTER	GRIT	ELEC. USED	COST	AIR USED	MAIN- TENANCE	OTHER
DAILY									
WEEKLY									
MONTHLY									
ANNUALLY									
IF MAINTAINED CHECK LOCAL CONTROL CONT	OT AT ALL K FORM OF DG BOOK I LABDHAT	DAILY F RECORD BEL TABULAR DRY EQUIPMEN	WEEKLY ON: SHEET SEPA	MONTH	ERATION	PERIODICA	ROL CHAR	TS GRA	PHS
	) NO (11 NO,	e-grain)							
B. INDUSTRIAL WASTES,	DISCHARGI	ED TO MUNICIF	AL SYSTEM	A. NUMBER	AND TYPE	S OF INDUS	TRIES DISC	HARGING TO	SYSTEM
B. POPULATION EQUIVE	LENTIBO	D) OF INDUSTR	HAL WASTES (PF)	C. POPULA	TION EQUIT	ALENT (SS)	OF INDUS	TRIAL WAST	Es (pe)
D. VOLUME OF INDUSTR	IAL WASTE	(5 (mgd)		E. COMPOSI	TION AND	CHARACTE	RISTICSOF	INDUSTRIAL	WASTES
G. HAVE INDUSTRIAL EX	FFLUENT F	PROBLEMS BEE	EN SOLVED*	TYES	NO (II y	es, how?)			
SA, METHOD OR METHOD	DS USED TO	ASSESS INDUS	STRIAL WASTE THE	ATHENT COS	T tehnek am				
-	E BY CITY BASED ON I HARGE IS C	PROPEI	T AND ENFORCED	TER USE ASS ARGE BASED scale, etc.)	ESSMENT ON \$5	CHAR	GE BASED	ON FLOW 5 (describe)	
				CPLANIT					
T, IS A MANUAL OF PHA	NO		· ·	F YES, WHO				) REPORTS	
D	PLANT PE	ERSONNEL JAM	must Average Study for	Most Recent	Vens Report	ed in Section	"F")	G III	
JOB CATEGORY		NUMBER	TOTAL MAN-HO PER WEEK	CERT	HUPBER HFIED OH ENSED	EHPLO	IN YEARS	RANGE IN OF EXP	TEATENCE CATMENT
T. SUPERINTENDENT									
2. OFE=410=;									
3. LASORATORY TECHNI	CMAG								
4. LATIONERS									
5 PART-TIME LABORE	15								
6. TOTAL									