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December 20, 2002

Ms. Natalie Harris
Knoxville Environmental Assistance Center
Tennessee Department of Environment
and Conservation
2700 Middlebrook Pike
Suites 210 and 220
Knoxville, Tennessee 37921-5602

Dear Ms. Harris:

TENNESSEE VALLEY AUTHORITY (TVA) - KINGSTON FOSSIL PLANT (KIF) - NPDES PERMIT NO. TN0005452 - APPLICATION FOR RENEWAL

Enclosed are two copies of the NPDES renewal packet for KIF consisting of EPA Form 1, site map, Form 2C, flow schematic, Form 2E, and NPDES permit address form. TVA would appreciate consideration of the following in the renewed permit.

Outfall 001

As indicated in previous correspondence, TVA plans to install NOx-control technology at KIF that may result in ammoniated discharges at Outfall 001 and ultimately Outfall 002. TVA is investigating various options to mitigate the ammoniated discharge including rerouting the 001 discharge to the condenser cooling water discharge, installing a diffuser at the 001 discharge or modeling a submerged discharge at 001 to facilitate mixing. Worst case concentrations of ammonia introduced from NOx-control technology are expected to be approximately 2.46 mg/l assuming no biological uptake; however, based on experience at KIF during NOxTech testing and operation of Selective Catalytic Reduction equipment at other TVA facilities, concentrations are expected at much lower levels in the ash pond discharge during biologically active periods. TVA will present outcomes from modeling the diffuser and submerged open pipe (if appropriate) as soon as they are complete.

TVA requests inclusion of authorization to discharge ammoniated wastewater in the renewed permit such that ammoniated discharges scheduled to occur beginning in January 2004 are authorized.

Ms. Natalie Harris Page 2 December 20, 2002

Outfall 002

- 1. TVA requests flexibility in the renewed permit to allow for UV treatment of toxicity samples, if granted, without an additional permit modification. TVA submitted a request dated February 22, 2002, to treat toxicity test samples with UV to deal with pathogenic interference at three TVA facilities in Tennessee. The Division of Water Pollution Control (the Division) responded and requested additional information which TVA provided in a letter dated September 17, 2002. While the Division has not yet responded to the latest correspondence, TVA requests that the permit be written such that further modification to the permit to incorporate permission to treat samples, if granted, will not be necessary.
- 2. Enclosed is a summary of the reasonable potential evaluation and toxicity test results since the last renewal application which was submitted in 1999. TVA requests that the current annual frequency for toxicity testing at Outfall 002 be maintained.
- 3. TVA requests continuation of the 316(a) variance as incorporated in the current permit. Enclosed are additional data supporting the request. As presented in the enclosed report, TVA believes that the thermal discharges from KIF do not have a negative impact on maintenance of a balanced indigenous population in the Clinch River/upper Watts Bar Reservoir.

Outfall 005

Outfall 005 is an internal waste stream that consists of discharges from the metal cleaning waste pond complex (iron and copper ponds). This pond does not discharge often and was not discharging at the time of the permit renewal sampling. Historical results reported are from a discharge in January 2002 and are only for flow, iron and copper as required to be monitored by the current NPDES permit.

Outfalls 006, 007 and 008

TVA requests that current permit provisions for these outfalls be maintained. These outfalls discharge to the plant intake channel where they mix with the plant intake flow of 1316 million gallons per day (mgd) average flow through the plant.

TVA did not sample Outfall 008 since flow normally occurs only in response to a rainfall event. Historically, the drainage area of 008 has received ash sluice water from occasional ruptured sluice lines. TVA believes that the effluent quality data from 001 very conservatively represent the discharge from 008.

Ms. Natalie Harris Page 3 December 20, 2002

If you have any questions or need additional information about this application for renewal, please contact Lindy Printz Johnson at (423) 751-3361 in Chattanooga, or you may email her at lipjohnson@tva.gov.

Janet K. Watts Manager Environmental Affairs 5D Lookout Place

GGP:LPJ:SMF Enclosures cc (Enclosures):

> L. F. Campbell, KFP 1A-KST E. L. Deskins, KFP 1A-KST J. W. Shipp, Jr., MR 2T-C

B. B. Walton, ET 11A-K

EDMS, EB 5G-C (NPDES permit renewal application)

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Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

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Page 2
December 20, 2002

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Page 3
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Enclosures

Tennessee Valley Authority (TVA) - Kingston Fossil Plant (KIF) - NPDES Permit No. TN0005452 - Application for Renewal

Current Whole Effluent (WET) Toxicity Limit:

7-day or 3-brood $IC_{25} = 100\%$

effluent (1.0 TUc)

Monitoring Frequency = Annual

Proposed Whole Effluent (WET) Toxicity Limit:

Biomonitoring frequency remaining at annual (1/year), with compliance for fathead minnows based on results from UV treated samples.

In accordance with EPA's recommendation (Technical Support Document for Water Quality-based Toxics Control, EPA/505/2-90-001), KIF Outfall 002 should retain its WET Limit based on a demonstration of Reasonable Potential (RP) for excursions above the ambient water quality acute and chronic (CMC and CCC) criteria. This demonstration of RP was not due to toxicity observed in Outfall 002, but to insufficient flow in the Clinch River for mixing with the combined CCW/ashpond discharge to meet the CMC and CCC criteria of 0.3 TUa and 1.0 TUc, respectively (See "Acute Toxicity" and "Chronic Toxicity" sections on last page.).

Toxicity testing during the current permit period has not indicated acute toxicity (LC₅₀s \geq 100 percent; \leq 1.0 TUa) to either test organism (Table 1). No chronic toxicity has been demonstrated in testing with daphnids ((IC₂₅s > 100 percent; < 1.0 TUc), however one fathead minnow test resulted in an IC25 of 16.7 % (6 TUc). Reduced survival was also shown in intake samples tested in conjunction with the compliance test (Table 2). The required follow-up test demonstrated no toxicity. TVA requested that the initial test be invalidated due to evidence of fish pathogen interference seen both in the May 19-26 Kingston biomonitoring and in an extensive investigation conducted by TVA to determine the nature and source of interference in fish tests at three of TVA's Tennessee power production facilities. TDEC's response was that TVA should request sample pretreatment (i.e. exposure to UV radiation) to eliminate fish pathogens prior to fathead minnow testing. Based on tests conducted under the current and previous permits, there appears to be very little facility-induced toxicity associated with this discharge, which usually mimics water quality in the intake (i.e. the Clinch and Emory Rivers upstream). TVA requests that WET biomonitoring continue on an annual frequency and use UV treated samples for fathead minnow compliance determination. Daphnid tests will continue to use untreated samples.

KIF Documentation:

Table 1. Summary of KIF Outfall 002 WET Biomonitoring Results

			Acute Results (96-h Survival)		Chronic Results
	Test Date	Test Species	% Survival in 100% Sample	LC ₅₀ /Toxicity Units (TUa)	IC ₂₅ /Toxicity Units (TUc)
	10				
	<u>IC₂₅</u> 14. May 20-27, 2001	Ceriodaphnia dubia	90	>100/< 1.0	
	May 19-26, 2001	Pimephales promelas	68		16.7/6.0
Retest	15. June 12-19, 2001	Ceriodaphnia dubia	_*	<u>.</u> *	_*
	•	Pimephales promelas	100	>100/< 1.0	>100/< 1.0
	16. Feb. 13-20, 2001	Ceriodaphnia dubia	100	>100/< 1.0	>100/< 1.0
	,	Pimephales promelas [†]	100		
	17, Nov. 5-12, 2002	Ceriodaphnia dubia	100	>100/< 1.0	>100/< 1.0
		Pimephales promelas [†]	100		
	n		 7	4	4
	Maximum		100%	>100/< 1.0	16.7/6.0
	Minimum		68%	>100/< 1.0	>100/< 1.0

Table 2. Fish Survival in Outfall 002 and Intake

		7-Day Fish S	Survival (%)
	Sample Date	Undiluted Outfall 002	Intake
	May 19-26, 2001	45	70
Retest	June 12-19, 2001	100	100
	Feb. 13-20, 2002	100	70
	Nov. 5-12, 2002	100	100

^{*}Single species retest.

† UV treated fathead minnow test conducted simultaneously with regular compliance test.

DILUTION

Outfall 002 Long Term Average (LTA) = 1316 MGD

Receiving Stream 1Q10 = 155.8 MGD (From Appendix 1, Page R-15 of the current permit, effective March 1, 2001.)

Dilution Factor (DF):
$$DF = \frac{Qs}{Qw} = \frac{155.8}{1316} = 0.118$$

ACUTE TOXICITY

Insufficient dilution is available for demonstrating no reasonable potential for exceeding the acute instream WET criterion (CMC = 0.3 TUa). The dilution factor would need to be greater than 3.0 in order to conduct that demonstration for acute toxicity.

CHRONIC TOXICITY

Insufficient dilution is available for demonstrating no reasonable potential for exceeding the chronic instream WET criterion (CCC = 1.0 TUc). The dilution factor would need to be greater than 1.0 in order to conduct that demonstration for chronic toxicity.

Results of Biological Monitoring in the Vicinity of Kingston Fossil Plant During Autumn 2001 in Support of a Continued 316(a) Thermal Variance

Introduction

Section 316(a) of the Clean Water Act allows point-source discharges of heated water to exceed State water quality thermal criteria based on demonstrating maintenance of "Balanced Indigenous Populations" (BIP) of aquatic life. Kingston Fossil Plant (KIF) is operating under a 316(a) thermal variance that has been administratively continued with each permit renewal based on studies conducted in the mid 1970's. The requirement for conducting 316(a) studies in Tennessee comes from EPA Region IV guidance to the States requiring future variance requests be granted on new data generated to show aquatic communities meet the BIP standard. In response to a letter from TVA Fossil Power Group to Tennessee Department of Environment and Conservation (TDEC), dated May 9, 2001, requesting assessment of adequacy and scope of proposed reservoir fish assemblage index (RFAI) studies for continuance of thermal variances, Tennessee approved the RFAI studies on September 17, 2001. Based on that agreement, the current KIF NPDES permit TN0005452, effective March 1. 2001, requires that RFAI samples be taken once every two years to demonstrate that KIF operation is not impacting BIP. In response to this requirement, TVA initiated a study that will evaluate fish communities in areas immediately upstream and downstream of KIF between the years 2001 and 2003. The purpose of this document is to briefly summarize and provide TDEC the results from monitoring during the first sample period - autumn 2001. A comprehensive report data will be made available on request. The NPDES permit renewal application will be submitted to request renewal of the section 316(a) variance for this facility on or before December 31, 2002.

TVA initiated a Valley-wide reservoir Vital Signs (VS) monitoring program in 1990 to evaluate ecological conditions in major reservoirs. At the core of this monitoring effort is a multi-metric approach to data evaluation. Five environmental indicators are used: dissolved oxygen, chlorophyll, sediment quality, benthic macroinvertebrate community, and the fish community. In the beginning, specific evaluation techniques had to be developed for each indicator. The outcome of this effort was development of multi-metric evaluation techniques for the fish assemblage (Reservoir Fish Assemblage Index - RFAI), as described below. These multi-metric evaluation techniques have proven successful in TVA's monitoring efforts as well as other Federal and State monitoring programs and will form the basis of evaluating these monitoring results.

Methods

Sampling Locations

Two sample locations, one upstream and one downstream of the plant discharge, were selected in upper Watts Bar Reservoir. The KIF discharge enters the Clinch River at Clinch River Mile (CRM) 2.5. For the fish community, the upstream sample site was centered at CRM 4.4, and the downstream site was centered at CRM 1.5.

TVA's VS program has four sample sites on Watts Bar Reservoir (Forebay TRM 531.0, Transition TRM 560.8, Tennessee River Inflow TRM 601, Clinch River Inflow CRM 22.0); one of which (Transition) is relatively close to KIF. The VS reservoir inflow sample site in the Tennessee River is near Fort Loudoun Dam, while the Clinch River inflow sample site is near Melton Hill Dam (MHD).

Fish Community

Fish samples for upstream and downstream locations in upper Watts Bar Reservoir consisted of fifteen 300-meter electrofishing runs (approximately 10 minutes duration) and ten experimental gill net sets (five 6.1 meter panels with mesh sizes of 2.5, 5.1, 7.6, 10.2, and 12.7 cm) per site. Attained values for each of the 12 metrics were compared to reference conditions for transition zones of lower mainstream Tennessee River reservoirs and assigned scores based upon three categories hypothesized to represent relative degrees of degradation: least degraded --5; intermediate --3; and most degraded --1. These categories are based on "expected" fish community characteristics in the absence of human-induced impacts other than impoundment. Individual metric scores for a site are summed to obtain the RFAI score. Comparison of the attained RFAI score from the potential impact zone to a predetermined criterion has been suggested as a method useful in identifying presence of normal community structure and function and hence existence of BIP. For multi-metric indices, two criteria have been suggested to ensure a conservative screening of BIP. First, if an RFAI score reaches 70% of the highest attainable score (adjusted upward to include sample variability), and second, if fewer than half of RFAI metrics potentially influenced by thermal discharge receive a low (1) or moderate (3) score, then normal community structure and function would be present indicating that BIP existed, and, hence, the heated discharge would meet screening criteria and no further evaluation would be needed. The range of RFAI scores possible is from 12 to 60. As discussed in detail below, the average variance for RFAI scores in TVA reservoirs is 6 (±3). Therefore, any location that attains an RFAI score of 45 (42 + our upward sample variance of 3) or higher would be considered to have BIP. It must be stressed that scores below this endpoint do not necessarily reflect an adversely impacted fish community. The endpoint is used to serve as a conservative screening level, i.e., any fish community that meets these criteria is obviously not adversely impacted. RFAI scores below this level would require a more in depth look to determine if BIP exist. An inspection of individual RFAI metric results would be an initial step to help identify if KIF operation is a contributing factor. This approach is appropriate if a validated multi-metric index is being used and scoring criteria applicable to the zone of study are available.

Upstream/downstream stations can be used to identify if KIF operation is adversely impacting the downstream fish community. A similar or higher RFAI score at the downstream site compared to the upstream (control) site is used as one basis for determining presence/absence of KIF operational impacts on the resident fish community. Definition of "similar" is integral to accepting the validity of these interpretations. The Quality Assurance (QA) component of VS monitoring deals with how well the RFAI scores can be repeated and is accomplished by collecting a second set of samples at 15-20% of the sites each year. Experience to date with the QA component of VS shows that comparison of RFAI index scores from 54 paired sample sets collected over the past seven years range from 0 to 18 points, the 75th percentile is 6, the 90th percentile is 12. The mean difference between these 54 paired scores is 4.6 points with 95% confidence limits of 3.4 and 5.8. Based on these results, a difference of 6 points or less is the value selected for defining "similar" scores between upstream and downstream fish communities. That is, if the downstream RFAI score is within 6 points of the upstream score, the communities will be considered similar and it will be concluded that KIF has had no effect. It is important to bear in mind that differences greater than 6 points can be expected simply due to method variation (25% of the QA paired sample sets exceeded that value). When such occurs, a metric by metric examination will be conducted to determine what caused the difference in scores and the potential for the difference to be thermally related.

Modifications in the metrics used in RFAI are being evaluated that will make the index even more reflective of reservoir conditions. Future versions of the RFAI will likely include refined metrics. Comparisons will be made between present and improved RFAI scores.

Results

Fish Community

RFAI results from the site downstream of KIF exceeded the 70% BIP criteria, adjusted upward to include sample variability (i.e., RFAI score ≥45), indicating that the resident fish community below the KIF discharge was above the screening level in autumn 2001. Table 1 provides individual metric scores and the overall RFAI score for upstream and downstream stations. These values (46 for downstream and 48 for upstream) were within the 6 point acceptable variation. Resident fish communities at these locations reached 76.6 and 80.0 percent of their potential, respectively. Therefore, it can be concluded that the KIF heated effluent is not adversely impacting the resident fish community in the Tennessee River in the vicinity of the plant discharge. Electrofishing and gill netting catch rates for individual species from both sites are listed in Table 2. No State or Federal protected fish species were collected, or are known to occur in the vicinity of KIF.

RFAI scores obtained from Vital Signs monitoring sites located upstream and downstream of the KIF discharge, though not in the immediate vicinity, over the past several years revealed similar fish community results (Table 3). Since 1993, the average RFAI score for the upstream site on the Clinch River was 44 and the upstream site on the Tennessee River was 43.6 (73.3 and 72.2% of the maximum score, respectively). Averages for two downstream sites were 47.4 and 42.1 (79.0 and 70.2% of the maximum score, respectively). All these scores are higher than the adjusted 70% criteria for designation as BIP. However, the nearer downstream site was approximately 10 river miles below the discharge(CRM 2.7) (10 miles above Transition and 21 miles below MHD), and the above plant site on the Clinch River was 21 river miles upstream, immediately below Melton Hill Dam. These data indicate that the plant discharge is not adversely impacting the broader fish community of upper Watts Bar Reservoir.

Table 1. Individual metric scores and the overall Reservoir Fish Assemblage Index (RFAI) score for upstream and downstream sites of the Kingston Fossil Plant discharge in the vicinity of Watts Bar Reservoir, October, 2001.

			stream	·	tream
			M 1.5		M 4.4
Metric	Sample Gear	Obs	Score	Obs	Score
A. Species richness and composition					
1. Number of species		35	5	35	5
2. Number of sunfish species		6	5	6	5
3. Number of sucker species		4	3	5	3
4. Number of intolerant species		3	3	4	3
5. Percent tolerant individuals	Electrofishing	25.36	1.5	14.07	2.5
	Gill Netting	17.32	2,5	20.19	1.5
6. Percent dominance	Electrofishing	44.92	1.5	51.95	1.5
	Gill Netting	16,88	2.5	33,33	1.5
7. Number of piscivore species		11	5	10	5
B. Trophic composition					
8. Percent omnivores	Electrofishing	25.11	1.5	15.15	2.5
	Gill Netting	45.02	0.5	45.07	0.5
9. Percent insectivores	Electrofishing	63.96	2.5	72.29	2.5
	Gill Netting	11.69	1.5	10.80	1.5
C. Reproductive composition					
10. Number of lithophilic spawning species		5	3	8	5
D. Fish abundance and health					
11. Average number of individuals	Electrofishing	78.07	1.5	61.60	1.5
•	Gill Netting	23.10	1.5	21.30	1.5
12. Percent anomalies	_	0.93	5	1.41	5
RFAI			46		48
			Good		Good

Scored with transition criteria

^{*}Percent composition of the single most abundant species

Table 2. Species collected and catch per effort during autumn electrofishing (catch per 300-m run and per hour) and gill netting (catch per net-night) at the upstream and downstream stations of Kingston Fossil Plant, Watts Bar Reservoir, 2001.

	Do	wnstream Cl	RM 1.5	Upstream CRM 4.4			
	Electr	ofishing	Gill Netting		fishing	Gill Netting	
Common Name	Catch Per	Catch Per	Catch Per Net	Catch Per	Catch Per	Catch Per Net	
	Run	Hour	Night	Run	Hour	Night	
Paddlefish			0.10				
Spotted gar	0.13	0.67					
Skipjack herring			2.10			2.00	
Gizzard shad	16.87	85,19	3.90	5.80	27.27	3.50	
Threadfin shad	0.07	0.34	0.20	0.13	0.63		
Common carp	1.27	6.40	0.10	2.33	10.97	0.80	
Golden shiner	0.60	3.03		0.07	0.31	•	
Emerald shiner	2.93	14.81		0.73	3.45		
Spotfin shiner	3.60	18.18	•	3.67	17.24		
Bluntnose minnow	0.13	0.67	-	0.13	0.63	•	
River carpsucker	0.07	0.34	•			*	
Smallmouth buffalo	0.53	2.69	1.20	0.47	2.19		
Black buffalo			0.30	0.07	0.31	0.20	
Spotted sucker	0.73	3.70	0.30	0.53	2.51	0.90	
Black redhorse	_			0.07	0.31		
Golden redhorse						0.10	
Blue catfish		-	3.20			3.50	
Channel catfish	0.13	0.67	1.70	0.47	2.19	1.60	
Flathead catfish	0.13	0.67	0.40	0.07	0.31	0.30	
White bass	2,22		0.50	0.13	0.63	1.50	
Yellow bass		•	1.90	0.13	0.63	3.60	
Striped bass	•	•	1.40	0,12	0.02	0.20	
Hybrid striped bass	•	•	0.20	• .	•	3.20	
Warmouth	0.13	0.67	0,20	0.07	0.31		
Green sunfish	0.73	3.70	•	0.27	1.25	·	
Bluegill	35.07	177.10	1.40	32.00	150.47	0.30	
Longear sunfish	0.73	3.70	0.10	0.93	4.39	0.50	
Redbreast sunfish	0.33	1.68	0.10	0.20	0.94	•	
Redear sunfish	3.73	18.86	0.30	4.53	21.32	0.50	
Hybrid sunfish	3.75	10.00	0.50	0.07	0.31	0.50	
Smallmouth bass	0.40	2.02	•	0.40	1.88	•	
Spotted bass	1.20	6.06	0.70	1.00	4.70	0.40	
Largemouth bass	6.40	32,32	0.40	5.73	26.96	0.10	
White crappie	0.13	0.67	0.60		20,50	0.10	
Black crappie	0.13	0.34	1.10	0.13	0.63	0.30	
Snubnose darter	0.07		1.10	0.13	0.03	0.0	
Yellow perch	0.20	1.01	•	0.07	1,57	•	
Logperch	0.20	1.68	•	0.33	0.31	•	
Sauger	0.55		0.40		V.J.1	0.90	
Freshwater drum	0.27	1.35	0.40	0.07	0.31	0.50	
			0.00	0.07	4.39	0.50	
Brook silverside	1.13	5.72				21.2	
Totals	78.04	394.24	23.1	61.60	289.63	21.3	
Number Samples	15		10	15		10	
Number Fish Collected	1171		231	924	l	213	

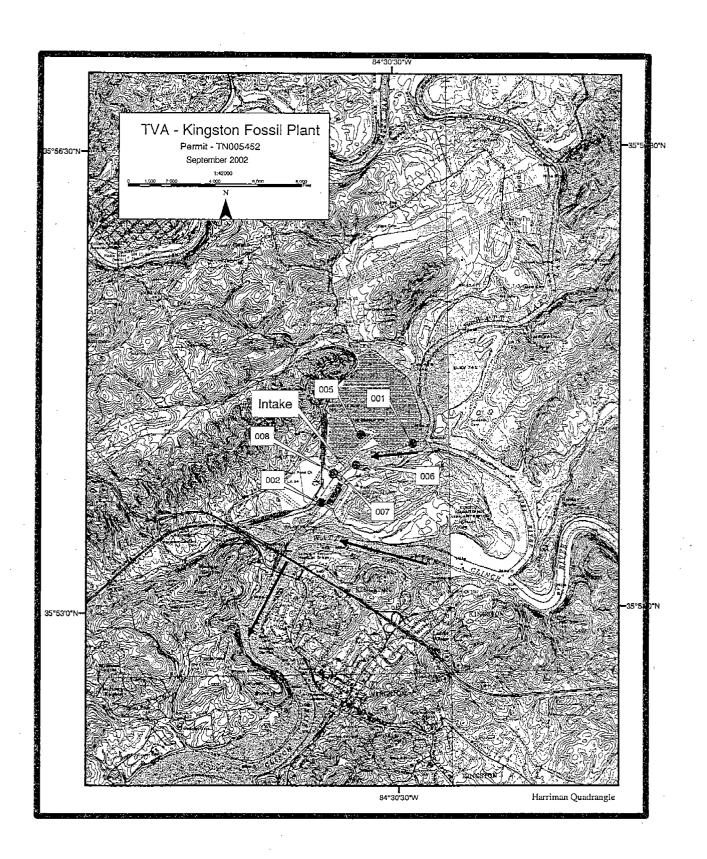
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Table 3. Recent (1993-2001) RFAI scores collected as part of the Vital Signs monitoring program upstream and downstream of Kingston Fossil Plant, Watts Bar Reservoir.

		Year									
Site	Location	1993	1994	1995	1996	1997	1998	1999	2000	2001	Ave.
Upstream	CRM 22	44	40		48		46		42		44
-	TRM 601	38	46		40		50		44		43.6
Downstream	TRM 560.8	53	46		42		48		48		47.4
	TRM 531	39	43		41		45	38	45	44	42.1

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Y TRILIZAT YV Y COR ROOD /	////	/////	////	///	//		label has been provided. Re for detailed item description		
77777	7/7/	////			77,		authorizations under which	this data is	collected.
	T CHARACTI		etermine whether y	ou need to s	ubmit an	permit application forms to	the EPA, if you answer "yes" t	o any quesi	tions, you
must submi	il this form an	d the supplemental fo	orm listed in the pa	arenthesis fol	llowing th	e question. Mark "X" in the	box in the third column if the su	pplemental	l form is
		no" to each question, ons. See also, Sectio					our activity is excluded from per	mit require	ments; see
	·-···	· · · · · · · · · · · · · · · · · · ·		MARK X	1	•	OUECTIONS		MARK 'X'
	argulfiQ	QUESTIONS	YES		ORM ACHED	SPECIFIC	QUESTIONS	YES	NO FORM ATTACHED
		wned treatment wo		·			either existing or proposed)	 	
(FORM 2A)		ige to waters or the	0.3.7	, X			animal feeding operation or tion facility which results in		X
C. Is this a faci	dify which our	rently results in disch	16	17	18	~	of the U.S.? (FORM 2B) (other than those described	19	20 21
		er than those describ			χľ	in A or B above) which v	vill result in a discharge to	1	x
A or B above	e? (FORM 20	C)				waters of the U.S.? (FC	ORM 20)	<u> </u>	
. Does ar will	this facility tr	eat, store, or dispose	22 of	23	24 F	. Do you or will you inject	at this facility industrial or	25	26 27
hazardous	wastes? (FC	экм э)		X		municipal effluent below taining, within one quart	the lowermost stratum con-		X
			28	29	30		drinking water? (FORM 4)	31	32 33
		t this facility any prod n are brought to the s			F		at this facility fluids for special ng of sulfur by the Frasch		
face in conn	ection with co	nventional oil or natu	ırai İ	x			of minerals, in situ combus-	į	x ·
- ,		is used for enhanced pas, or inject fluids for				tion of fossil fuel, or reco (FORM 4)	very of geothermal energy?		
storage of li	quid hydrocar	bons? (FORM 4)	34	35	36	(FORIVI4)		37	38 39
		stationary source wategories listed in the					stationary source which is trial categories listed in the		
		potentially emit 100 to		x	-		rill potentially emit 250 tons		x l
		nt regulated under the ect or be localed in a			-		ant regulated under the Clean be located in an attainment		
	area? (FOR		40	41	42	area? (FORM 5)	De localed in an attaniment	43	44 45
II. NAME OF F			7 7 7						7 7 7 7
SKIP U	<u>s; ;T;\</u>	/¦A¦ ;K;I ;N	1;'G;'S;'T;'O;	<u>N</u> ; ;F;	o;s;s	<u> </u>	N',T', ', ', ', ', ', ', ', ', ', ', ', ', '	· · ·	
15 16-29 30 V. FACILITY C	ONTACT								69
			ME & TITLE (last				B. PHONE (a.		1 1 1 1
	<u>E </u>	<u>\'N¦L¦, ¦M¦A</u>	\'s\o\u\D\	's,'v.	P	- 'o's 's 'I 'L '	O'P 4, 2, 3 7, 5	1 3	
15 16 /. FACILITÝ M	AILING ADDI	RESS					45 46 - 48 49 -	.51 L5	2 - 55
		A	STREET OR P.C						·
3 1, 1, 0,	_1,	\',R,K,E,T,	STRE	<u> </u>	L	, 3,K, , , , , , ,			*
15 16		B. CITY	OR TOWN	 		C. STATE	45 D. ZIP CODE		
4 C H A	1, A, T, T	7 1 1 1 1			1 1	T.N	3, 7, 4, 0, 2		
15 16						40 41 42	47 - 51	************	****
/I. FACILITY L	OCATION	A, STREET, ROUT	TE NO. OR OTHER	R SPECIFIC	IDENTIF	IER			
5 7 1 4	s.w.A			1 1	1 1	1 1 1 1 1 1 1			
15 16							45		
		B. COUNT	TY NAME	<u> </u>		··			
				1 1 1	1 [70			•
R,O,A,	N,E, ,								
R,O,A,	N,E, ,	C. CITY	OR TOWN			. D. STATE	E.ZIP CODE F. C	CUNIY C	ODE
46 T T			OR TOWN	1 1 1	1 1		 	COUNTY C	ODE
	RI MA	C. CITY	OR TOWN	1 1 1	1 1	D, STATE	3, 7, 7, 4, 8 47, 51	52 - 54	

CONTINUED FROM PAGE 1	
VII. SIC CODES (4-digit, in order of priority)	B. CEOCHD
A. FIRST	B. SECOND
[-]	⇒ (`` ''
7 4, 9, 1, 1 Electric Services	7
15 16 - 19 C. THIRD	15 16 - 19 D. FOURTH
C (specify)	C ((specify)
7	-1
	7 15 16 - 19
VIII. OPERATOR INFORMATION	10 10 - 13
A. NAME	B. Is the name listed as
	Item VIII-A also the
TENNESSEE VALLEY AUTHORI	T Y owner?
8	XYES NO
15 16	55 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer bo	
	(specify)
S = STATE	A 4, 2, 3 7, 5, 1 3, 0, 1, 3 15 16 - 18 19 - 21 22 - 25
E. STREET OR P.O. BOX	10 10 10 21 22
	
1, 1, 0, 1, ,M,A,R,K,E,T, ,S,T,R,E,E,T, ,L,P,- ,3,K, ,	
26	<u>1 1 1 1 55</u>
F. CITY OR TOWN	G, STATE H, ZIP CODE IX, INDIAN LAND
	Is the facility located on Indian lands?
B C,H,A,T,T,A,N,O,O,G,A,	T N 3, 7, 4, 0, 2 YES X NO
15 16	40 41 42 47 - 51 52
X. EXISTING ENVIRONMENTAL PERMITS	
A. NPDES (Discharges to Surface Water) D. PSD (Air Emissions from	Proposed Sources)
	1 1 1 1 1
9 N T,N, 0, 0, 0, 5, 4, 5, 2, , , , 9 P , , , , , ,	<u> </u>
15 16 17 18 30 15 16 17 18	30
B. UIC (Underground Injection of Fluids) E. OTHER (so	ecity) (specify)
 	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
9 U R,O,A, 0, 1, 5, , , , , , , , 9 5, 4, 8, 4, 0, 1,	
15 16 17 18 30 15 16 17 18	30
C. RCRA (Hazardous Wastes) E. OTHER (sp. C. T. I.	(specify)
	· · · · · · · · · · · · · · · · · · ·
9 R , , , , , , , , , , , , 9 T,N,R,0,5,1, 15 16 17 18 30 15 16 17 18	710171 1 20
XL MAP	30
Attach to this application a topographic map of the area extending to at least one mile beyon	d property boundaries. The map must show the outline of the
facility, the location of each of its existing and proposed intake and discharge structures, each	h of its hazardous waste treatment, storage, or disposal
facilities, and each well where it injects fluids underground. Include all springs, rivers and or	her surface water bodies in the map area. See instructions
for precise requirements.	
XII. NATURE OF BUSINESS (provide a brief description)	
	'
Kingston Stream Plant is a fossil fueled, steam electric generating	plant located near Kingston, Tennessee
on Watts Bar Reservoir at Clinch River mile 2.6. The plant has ni	
generating capacity of 1,700 megawatts.	
	·
•	
·	į
	,
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familiar with the i	nformation submitted in this application and all attachments and
that, based on my inquiry of those persons immediately responsible for obtaining the in information is true, accurate and complete. I am aware that there are significant penalt	tormation contained in the application, I believe that the
information is true, accurate and complete. I am aware that there are significant penalt fine and imprisonment.	ies for submitterly laise information, including the possibility of
A. NAME & OFFICIAL TITLE (type or print) B. SIGNATURE	C. DATE SIGNED
Masoud Bajestani, Senior Vice President	0. 6/1/0-117/12/02
Fossil Power Group	1 -11/102
COMMENTS FOR OFFICIAL USE ONLY	(/
	/
C , , , , , , , , , , , , , , , , , , ,	<u> </u>
15 16	55
EPA Form 3510-1 (8-90)	



Form Approved OMB No. 2040-0086

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FORM	APPLICATION I	OR PERMIT TO DISCHAR	rander up die Berleg van der Preus Bild der betreite der betreet bestellt der begrete begrete bestellt betreet
2C EPA F			BOUNDING THE ALL COSES THEY S
	XISTING MANUFACTURING,	COMMERCIAL, MINING AN	D SILVICULTURAL OPERATIONS
NPDES		Consolidated Permits Program	
L OUTFALL LOCATION			

I. OUTFALL LO		***************************************					
For each outfall, lis	st the latitude a	and longitude	of its locati	on to the near	est 15 seco	nds and the	name of the receiving water.
A. OUTFALL NUMBER	В,	LATITUDE		C,	LONGITUE)E	D. RECEIVING WATER (name)
(list)	1.DEG.	2. MIN	3 SEC	1. DEG.	2. MIN.	3. SEC.	
001	35	54	15	84	30	15	Plant Intake Canal (to Clinch River)
002	35	53	45	84	31	15	Clinch River
005	35	54	15	84	31	0	Plant Intake Canal (to Clinch River) via Outfall 001
007	35	54	. 0	84	30	0	Plant Intake Canal (to Clinch River)
800	35	54	0	84	30	0	Plant Intake Canal (to Clinch River)
			2172				
	1						

- II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES.

 A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the
- wastewater: Continue on additional sheets if necessary

1.OUT-	2. OPERATION(S) CONTRIBUTING F	LOW	3 TREATMENT		
FALL NO (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION		DES FROM E 2C-1
001	Ash Pond	40.483 MGD	Treatment occurs in a 118 acre		
}			settling pond. Ash and other		
			solids remain in the pond		_
·			and are physically removed		
			periodically.		
ŀ			Treatment for 001 includes:		
			(1) Settling	1	U
			(2) Neutralization	2	K
		·	(3) pH Adjustment (lime addition	X	X
			(4) Discharge to surface	4	Α
			water via Plant Intake		
_	DSN 001 receives flow from the		Channel.		
	following sources:		(5) Reuse of treated effluent	4	С
			for cooling water		
	(1) Redwater wetlands	0.180 MGD			
	(a) Precipitation	(0.010 MGD)			
	(b) Seepage from Ash Pond	(0.170 MGD)			
	(2) Coal yard runoff pond which	0.145 MGD			
	includes:				
	(a) Coal pile area drainage	(0.1045 MGD)			
	(b) Coal Conveyer area Drainage	(0.0055 MGD)			· .
	(c) Utility building area drainage	(0.035 MGD)			
	(d) Fire Protection Flush	(0.000064 MGD)			
OFFICIAL I	JSE ONLY (effluent guidelines sub-categories)	, A. S.			

TN8640006682

Form Approved

OMB No. 2040-0086

Approval expires 5/31/92

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U.S. ENVIRONMENTAL PROTECTION AGENCY FORM. APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EPA 2C EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS NPDES Consolidated Permits Program I. OUTFALL LOCATION For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. A. OUTFALL B. LATITUDE C. LONGITUDE D. RECEIVING WATER (name) NUMBER (list) 1 DEG. 2 MIN 3. SEC. 1. DEG. 2. MIN. 3. SEC II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item 8. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater sanitary wastewater, cooling water, and storm water runoff, (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary, 1. OUT-2. OPERATION(S) CONTRIBUTING FLOW FALL NO a. OPERATION (list) b. AVERAGE FLOW a. DESCRIPTION LIST CODES FROM (list) (include units) TABLE 2C-1 001 Metal cleaning wastes (internal Con't. monitoring outfall 005) which 0.005 MGD includes: (a) Copper treatment pond discharge (0.002 MGD) (i) Chemical metal cleaning {0.001 MGD} and air preheater wastes (ii) Precipitation {0.002 MGD} (iii) Less evaporation {-0.001 MGD} (b) Iron treatment pond discharge (i) Chemical metal cleaning and air preheater wastes (ii) Precipitation (0.011 MGD) (iii) Less evaporation (-0.008 MGD) (4) Nonchemical metal cleaning wastes 0.002 MGD (5) Ammonia storage runoff 0.002 MGD Bottom ash sluice water 6.814 MGD and groundwater (7) 25.178 MGD Fly ash sluice water Water treatment plant wastes via 0.267 MGD NLDF Sump, which include: (a) RO System Reject (0.239 MGD) (b) RO System Backwash (0.028 MGD) OFFICIAL USE ONLY (effluent guidelines sub-categories)

TVA-00026078

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TN8640006682

FORM		APPLICA	NG NYMBA NYMBANANA NA NANANA NY INDRANDRA NA NANANA NA NANANA NA NANANA NA NANANA NA	NMENTAL PROTECTION AGENCY IT TO DISCHARGE WASTEWA	ATER
2C	EPA	EXISTING MANUFACTU		IAL, MINING AND SILVICULT	URAL OPERATIONS
NPDES I OUTFA	LL LOCATION]		Consolida	ted Permits Program	
For each ou	itfall, list the latitude a	nd longitude of its location to the nea		name of the receiving water.	
A. OUTF		LATITUDE C.	LONGITUDE	D. RECEIVING WAT	TER (name)
(list)	1. DEG.	2. MIN 3. SEC. 1. DEG.	2. MIN. 3. SEC.		
					<u>po mijoranico o grapo con consciono con con con con con con con con con </u>
			 	77 2	
·····					
					
· - ···· ·			 		
			 	 	
			 		
					
			 		
II. FLOWS	SOURCES OF POI	<u> </u>	HNOLOGIES		
Attac	h a line drawing show	ing the water flow through the facility,	Indicate sources of inta	ke water, operations contributing wastewa	iter to the
				m B. Construct a water balance on the li	
				ter balance cannot be determined (e.g., for of water and any collection or treatment in	
				effluent, including process wastewater, s	
			age flow contributed by ea	ach operation; and (3) The treatment rece	ived by the:
waste		dditional sheets if necessary: OPERATION(S) CONTRIBUTING I	ELOW!	3. TREATME	-NIT
FALL NO		OPERATION (list)	b. AVERAGE FLOW	a. DESCRIPTION	b. LIST CODES FROM
(list)			(include units)		TABLE 2C-1
001	(9) Station sum	np discharge which	7.712 MGD		
cont.	includes:			•	
	(a) Ash syst	tem leak and boiler	(3.921 MGD)	• •	
	bottom ove	rflow			
	(b) Unit 5-9	ID fan bearing	(0.234 MGD)		
	cooling water	er			
		neous equipment cooling	(3.438 MGD)		
	and lubricat		,		
		tection flush	(0.000034 MGD)		
		ashing wastes	(0.025 MGD)		
	······································	ins and RC precipitator	(0.018 MGD)		
		(including Control	(0.010 (110.0)		
	Room AC)	g John of			
ŀ	 	al process wastewater	(0.005 MGD)	· · · · · · · · · · · · · · · · · · ·	
	* ***	ple stations (Powerhouse	(0.010 MGD)		
ł	and lab)	ipic stations (i owernouse	(0.010 10100)		
	(i) Leakage		(0.061 MGD)		
		nt boiler blowdown tank	0 (Startup Only)		-
ì	() Dasemer	it boiler blowdown tank	O (Startup Offiy)		
}			-		
	(10) Dessi-11-21-		D ETA NOD		
	(10) Precipitatio		0.574 MGD	······································	
	(11) Less Evapo		-0.238 MGD		
}		ige to redwater wetland	-0.170 MGD	·	<u> </u>
		itator washdown	0.012 MGD		
EDICIAL U	SE UNLY (effluent gi	uidėlinės sub-categories)			

Form Approved OMB No. 2040-0086

(5) Precipitator area runoff

(b) Precipitation

OFFICIAL USE ONLY (effluent guidelines sub-categories)

(a) Fire protection flush

Flows are:

Approval expires 5/31/92 Please print or type in the unshaded areas only U. S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER FORM **EPA** 2C EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program NPDES I. OUTFALL LOCATION For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. D., RECEIVING WATER (name) B. LATITUDE C. LONGITUDE A. OUTFALL NUMBER 2. MIN. 3. SEC. (list) 2. MIN 3. SEC. 1. DEG. 1. DEG. II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of: (1), All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary. 2. OPERATION(S) CONTRIBUTING FLOW 3. TREATMENT 1. OUTb. LIST CODES FROM b. AVERAGE FLOW a. DESCRIPTION **FALL NO** a. OPERATION (list) TABLE 2C-1 (list) (include units) 1,296.912 MGD Discharge to surface water 002 Condenser cooling water discharge channel. DSN 002 receives flow from the following sources: Ü South underflow ponds retain 0.010 MGD (1) Runoff from the transformer yard solids (south) and the switchyard (South) via underflow ponds (a) Fire protection flush (0.00008 MGD) (b) Fire protection leakage (0.00092 MGD) (0.009 MGD) (c) Precipitation 0.014 MGD (2)Boiler blowdown Once-through condenser cooling 1,296.627 MGD water (raw river water) 0.243 MGD (4)Intake screen backwash 0.018 MGD

(0.000019 MGD)

(0.018 MGD)

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EPA EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Considerated promote Prospers Couract Action in the published and collected risk begindes to the nonemal is second as a first the published and collected risk begindes to the nonemal is second as a first the published and collected risk begindes to the nonemal first second as a first the published and collected risk begindes to the nonemal first second as a first the second as a firs	FORM					APPLICA			INMENTAL PROTECTION AGENCY IIT TO DISCHARGE WASTEWA		
L. FLOWS, SOURCES, OF POLUTION, AND TREATMENT TECHNOLOGIES ARIAD & INC. C. LONGTUDE L. FLOWS, SOURCES, OF POLUTION, AND TREATMENT TECHNOLOGIES ARIAD & INC. C. LONGTUDE L. FLOWS, SOURCES, OF POLUTION, AND TREATMENT TECHNOLOGIES ARIAD & INC. C. LONGTUDE L. FLOWS, SOURCES, OF POLUTION, AND TREATMENT TECHNOLOGIES ARIAD & INC. C. LONGTUDE L. FLOWS, SOURCES, OF POLUTION, AND TREATMENT TECHNOLOGIES ARIAD & Inc. Crawing Inc. C. LONGTUDE ARIAD & Inc. Crawing Inc. Crawing Inc. C. LONGTUDE For each outful, provide a Recorpision of (1) All ciperations continuing washware to the efficient, and or other inc. Crawing Inc. Crawing Inc. C. LONGTUDE For each outful, provide a Recorpision of (1) All ciperations continuing washware to the efficient including process washware, samilary washware to confine washing inc. C. Crawing Inc. Crawing Inc. C. Company Inc. C. C. C. C. C. C. C. The average flow overthitude of each of the crawing by statement and company in the crawing by statement including process washware, samilary washware to the efficient	il de Taribir.	\	EPA	EXIS	TING MA	NUFACTU	RING, C	A 4 . The Control of the Control	スレー 新聞き こうこうしょうしゅうしゃ 前間 デー・ディス 御歌がたり	RAL OPEF	RATIONS
Althan a line drawing shriving the selection to the nearest 15 seconds and the name of the recoving exelling WATER (name) 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 3. MIN, 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 3. MIN, 3. SEC. 1. DEG. 2. MIN, 3. SEC. 1. DEG. 3. MIN, 3. SEC. 1. DEG. 3. MIN, 3. SEC. 1. DEG. 3. MIN, 3. SEC. 1. DEG. 3. MIN, 3. SEC. 1. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES Althan a line drawing shrivwing the water flow through the facility, infolicities success of intake seater, operatures commonting wastewater to 31th a line and announced in the first of the section of the line and seater of the line drawing by the section of the line and announced any sources of water and any soliticistic a water trained, (2) The average flow contributed by each operation; and (3) The featment received by the wastewater. Continue on edd floors in sheet is freedessary. 1. OUT. 2. OPERATION(9) CONTRIBUTING FLOW 1. AVERAGE FLOW 1. DEGCRIPTION 1. TREATMENT 1. MIN, 1			CATION	Puri-vertical	Steben aber and a promise	Titudi in mark to divi					grafikasi salah di kacamatan di k Salah di kacamatan d
A OUTFALL NUMBER (IIST) 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 2. MIN 3. SEC. 1. DEG. 3. MIN 3. SEC. 1. D											
L. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES Affach a line drawing showing the water flow through the facility, indicate sources of intake water, operations contributing wastewater to the settlement, and treatment units labsed to correspond to the incre detailed description in Item B. Construct a water balance on the line crawing plants and provides a putchial description of the nature and amount of any sources of water and any oxidiction, or treatment measures. For each outlain provide a practicial description of the nature and amount of any sources of water and any oxidiction, or treatment measures. For each outlain provides a practicial description of the nature and amount of any sources of water and any oxidiction, or treatment measures. For each outlain provides a practicial description of the nature and amount of any sources of water and any oxidiction, or treatment measures. For each outlain provides a practicial description of the nature and amount of any sources of water and any oxidiction, or treatment measures. For each outlain provides a practicial description of the nature and amount of any sources of water and any oxidiction, or treatment received by the waterwater. Continue on additional sheet in free description. The average flows between the control of the provides of of th	A. OUTF	ALL								ER (name)	Barrio de la companya della companya de la companya de la companya della companya
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Form Approved OMB No. 2040-0086

Approval expires 5/31/92 Please print or type in the unshaded areas only U. S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER FORM EPA . 2C EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS NPDES. Consolidated Permits Program or each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water. B. LATITUDE C. LONGITUDE D. RECEIVING WATER (name) A. OUTFALL NUMBER (list) 1. DEG. | 2. MIN | 3. SEC. | 1. DEG. | 2. MIN. | 3. SEC. II. FLOWS, SOURCES, OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary 1. OUT- 2. OPERATION(S) CONTRIBUTING FLOW FALL NO a. OPERATION (list) b. AVERAGE FLOW 3 TREATMENT FALL NO b. LIST CODES FROM a. DESCRIPTION (list) (include units) TABLE 2C-1 007 North Parking Area Drainage and 0.052 MGD Discharge to surface water Abandoned Ash Pond Area Seepage at plant intake

OFFICIAL USE ONLY (effluent guidelines sub-categories)

李明芳的激烈 古田 學學學

Form Approved OMB No. 2040-0086

Please print or type in the unshaded areas only

TN8640006682

Approval expires 5/31/92 U. S. ENVIRONMENTAL PROTECTION AGENCY

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wast	ewater	, cooling wate	r, and storm	i water runo	ff; (2) The av	erage flow c	ontributed.	by each operation; and (3) The tree	itment received by t	he
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C. Except for	storm runoff leaks, or spills are any of the X YES (complete the following	le discharges described in Items II-A or B intermittent or seasonal? NO (go to Section III)
1. OUTFALL NUMBER (list). 005	2: OPERATION(s) CONTRIBUTING FLOW (list) Possible contributing flows (a) Batch discharges of boiler cleaning chemicals; (b) raw river water used to wash air preheaters; and (c) Accumulated precipitation.	3. FREQUENCY a. DAYS b. MONTHS PER WEEK PER YEAR (in mgd) (specify (specify average)) AVERAGE Boilers are cleaned on a cycle of approximately two per year. However current procedures recover and dispose the wastewater without sending it to the Cu pond. The pond recieves an average of 0.002 MGD from precipitation, and an annual average loss of 0.001 MGD from evaporation. Approximately eight air preheater cleanings are made per year. Current procedures are to route this wastewater directly to the ash pond. However, the ponds are expected to receive process wastewater over the next five years. The Fe pond receives an annual average loss of 0.008 MGD from evaporation.
III. PRODUCTI A. Does an el		EPA under Section 304 of the Clean Water Act apply to your facility?
Briti Basi	X YES (complete Item III-B)	NO (go to Seation IV)
	YES (complete Item III-C)	expressed in terms of production (or other measure of operation)? X NO (go to Section IV)
C. If you answ	wered "yes" to Item III-B; list the quantity wused in the applicable effluent guideline; at	hich, represents an actual measurement of your level of production, expressed in the terms nd indicate the affected outfalls
		RAGE DAILY PRODUCTION 2. AFFECTED OUTFAILS (Specify) (Ist outfail numbers)
IV. IMPROVEM A. Are you no		authority to meet any implementation schedule for the construction, upgrading or operation
of wastew applicatio	vater treatment equipment or practices or a	ny other environmental programs which may affect the discharges described in this nit conditions, administrative or enforcement orders, enforcement compliance schedule
1. (IDE)	NTIFICATION OF CONDITION, AGREEMENT, ETC. a. NO	Z. AFFECTED OUTFALLS 3. BRIEF DESCRIPTION OF PROJECT PLIANCE DATE
may affect.	L: You may attach additional sheets described in the discharges) you now have underway in actual or planned schedules for constructions.	ibing any additional water pollution control programs (or other environmental projects which or which you plan. Indicate whether each program is now underway or planned, and stion. MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.
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Continue on Page 3

CONTINUED FROM PAGE 2	TN8640006682
V. INTAKE AND EFFLUENT CHARAC	CTERISTICS 12 CALL STATE OF THE
	oceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided. and V-C are included on separate sheets numbered V-1 through V-9.
	the pollutants listed in Table 2C-3 of the instructions, which you know or have reason to believe is orn any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present ir possession.
1. POLLUTANT	2. SOURCE 2. SOURCE
None	
VI. POTENTIAL DISCHARGES NOT C	OVERED BY ANALYSIS
product or byproduct?	ASS (list all such pollutants below)
·	
	, • • • • • • • • • • • • • • • • • • •

EPA I.D. NUMBER (copy from Item 1 of Form 1)

Continue on Page 4

CONTINUED FROM PAGE 3					
VII. BIOLOGICAL TOXICITY TESTING D	ATA elieve that any biological test for acute or ch	ronic toxicity ha	is been made or	any of your dischar	les or
on a receiving water in relation to your disc				, . ,	
					_
X YES (identify	the test(s) and describe their purposes belo	W)		NO (ξ	go to Section VIII)
The current permit requires annua	al chronic toxicity testing at Outfal	1 002.		·	
	he State as required by the permit				
l ·		*			
i					
}					
	•				
		•	•		
VIII. CONTRACT ANALYSIS INFORMATI	ÓN: S				
	ON Viperformed by a contract laboratory or cons	sulting firm?			
	name, address, and telephone number of, a			NO (g	io to Section IX)
analyzed	by, each such laboratory or firm below)				
A. NAME	B. ADDRESS		EPHONE de & no.)	D. POLLUT	ANTS ANALYZED (list)
				20; ************************************	
Test America, Inc.	2960 Foster Creighton Dr.	(615) 7	26-0177	Total Cyanid	e and Total Phenol
	Nashville, TN. 37204-0566				
		ľ	. :		
·	•				
·					
	•				
·					
· .		·			•
AV 2007					
IX. CERTIFICATION Licertify under genalty of law that this docu	ment and all attachments were prepared un	der my directio	n or supervisio	r in accordance with	a system
10.1 P. 10.71 that in the African Conference are a second as a second of the conference of the	el properly gather and evaluate the information	Contraction of the Contraction o		PONON ANALOGO CO CONTRACA MENTE CANTON CA	\$0000000000000000000000000000000000000
	i directly responsible for gathering the inform complete. I am aware that there are signific				
possibility of fine and imprisonment for kno		ant benames ic	ir suprimung ran	se unormanon, mondo	u1g∙u1e
A. NAME & OFFICIAL TITLE (type or pr		<u> </u>	B. PHONE N	IO. (area code & no	.)
. Masoud Bajestani, Seni	or Vice President, Fossil Operation	ns		(423) 751-3	013
C. SIGNATURE			D. DATE SIG	SNED	
M. Kai	2010		12/17	7/67	,
<u>'''' '' '' '' '' '' '' '' '' '' '' '' '</u>	XXX		10/11	102	
//			•		
()					

EPA Form 3510-2C (8-90).

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all o this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.	PE IN THE UNSH, prate sheets (use II	ADED AREAS ONL 10 samo format) Ins	Y. You may reportead of completing	rt some or all of g these pages,		EPA±B;NUMBER (copy from florm) of Form 1). TN8640006682	186400066	Form (), seed that 3.2				
V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 350 Form 2:5)	JENT CHARACTE	RISTIGS (continued	from page 3 of F	orm 2.0)							OUT	OUTFALL NO. 001
PART A - You must pro	wide the results of	- You must provide the results of at least one analysis for every pollutant in this table.	for every pollutar	of in this table. Com	Complete one table for	each outfall. See Instr	Instructions for additional	8	I SINIL		NTAKE (ontional)	
1 POLLUTANT	a. MAXIMUII	DAILY VALUE	D.MAXIMU	MUM 30 DAY VALUE	c, LONG TE	C, LONG TERM AVRG. VALUE	d NO OF	(specify if blank)	blank	a.LONG	SALONG TERM	b NO. OF
	CONCENTRATION	(2) MASS	(1) CONCENTRA	ON (2) MASS	(1) CONCENTRATION	ON (2) MASS	ANALYSES	a CONCEN- TRATION	b MASS	CONDENTRATION	(2) MASS	ANALYSES
a, Blochemical Oxygen Demand (800)	< 2						1	mg/L		3		1
b. Chemical Oxygen Demand (COD)	48	. :					τ-	mg/L		27		1
c, Total Organic Carbon (TOC)	2.6						1	mg/L		3.2		1
d. Total Suspended Solids (TSS)	24				13.5		13	⊓/gш		8		-
e. Ammonia (as N)	< 0.02						1	mg/L		0.05		- -
Flow	VALUE	42.2	VALUE		VALUE	24.7	53	MGD	Q	VALUE		
g, Temperalure ((vinter)	VALUE		VALUE		VALUE			၁့		VALUE		,
h. Temperature (summer)	VALUE	27.3	VALUE		VALUE		-	ე,	0	VALUE 26.	3.5	-
Fd 1	MINIMUM 6.6	MAXIMUM 8.6	MINIMUM	MAXIMUM			73	STANDAF	STANDARD UNITS			
PARTB Mai	rk "X" in column 2- rer directly, or indire wide quantitative d	a for each pollutant solly but expressly, i ata or an explanatio	you know or have n an effluent limits n of their presenc	reason to believe l's allons guideline, you e in your discharge.	present. Mark "X" must provide the r Complete one tab	Mark IX in column 2 a for each polutant you know or have reason to believe is present. Mark IX in column 2-8 for each pollutant. For other pollutant you know or have reason to believe is present, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a you must provide quantitative data or an explanation of their presence it your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.	n pollulant you b nalysis for that p the instructions	alleve to be abse ollutant. For othe for additional det	nt. If you mark c ar pollutants for w alls and requiren	olumn 2a for any po inich you mark colu nents.	ollutant which is limi mn 2a, you must	pa
1, POLLUT	2. MARK X	a. MAXIMUM DA	LYVALUE	3. E b, MAXIMUM 30	PFLUENT DAY VALUE	6. LONG TERM AVRG. VALUE	RG. VALUE	が の の の の の の の の の の の の の	A. UNITS	(B)	LONG TERM	
	LIEVED LIEVED PRE- SENT SENT O	CONCENTRATION	(2) MASS	(if available) CONCENTRATION	(2) MASS	(1) (if available) (1) (1) (ONOENTRATION	(2) MASS	d NO. OF a. CO. ANAL. TRA YSES	a. CONCEN- TRATION	SS AVERA (1), CONCENTRATION	AVERAGE VALUE 1. (2) MASS TRATION	1. NO OF ANAL YSES
		<2					·	E E	mg/L	< 2		-
b, Chlorine, Total Residual		< 0.05						T mg	mg/L	< 0.05		2
c Color								1 PC1	PC Units	5		-
d Fecal	×	-										
e. Fluoride (16984-48-8)		0:30						1 Mį	mg/L	0.15	·	
f. Nilrate- Nitrite (as M)		< 0.03						- m.	mg/L	0.20		

1. POLLUT - 1. NE	a. MAXIMUM DAILY VALUE DENIAMINUM 30. E Crisicalis CASENTRATION. (2) MASS CONCENTRATION.	3. EFELUENT D. MAKIMUM 30 DAY VALUE (Barahahis) (C) MASS CONCENTRATION	NT JE WASS	OONCE C. LC	C. LONIG TERMANKS. VALUE (frauglable) (?) MASS CONIGENTRATION	d. NO. OF S. ANAL. YSES	a, CÓN TRAT	4. UNITS CERP B. MASS ION	CONC	5. INTAKE (oplonal) a. LONGTERM AVERAGE VALUE (1) (2) MASS ENTRATION	B: NO. OF ANAL- YSES
9, Nutropen, Total Organid (as:N) In Oll and Grease		0.26			< 55	- 5	mg/L mg/L		0.28		
×		0.21				-	mg/L		0.04		-
	×										
\$ \$330.00.	×										
10000000	×										
	×										
×		63				τ-	mg/L		24		-
×		< 0.02	,			-	mg/L		< 0.02		<u></u>
×		0.64				-	mg/L		0.64		-
×		< 0.1					mg/L		< 0.1		-
×		0.99				T	mg/L		0.28		_
×		0.45					mg/L		0.043		τ-
×		0.3				-	mg/L		< 0.2		_
×		< 0.001				Ψ-	mg/L		< 0.001		₹~
×		0.28				7	mg/L		0.21		-
f. Magnesium, Total X (7439:95:4):		11				-	mg/L		6'6		~
×		0.086			_	-	mg/L		< 0.02		+
×		0.034			-	-	mg/L		0.082		-
×		< 0.05				-	mg/L		< 0.05		-
×	·	0.037				·	mg/L		0,0075		<u></u>

such	GC/MS fractions equired GC/MS I r any pollutant,)	s that apply fractions);	such GC/MS fractions that apply to your industry and for Al	LL toxic me r each pollu	ALL toxic metals, cyanidas, and total phenois. If you are not required to mark column.2-a <i>(secondary industries, notacosas</i> wastewater outlants, and for each pollutant you believe is absent. If you mark column 2-c for each pollutant you believe is absent. If you mark column set one analysis for that pollutant, if you mark column 2-t for any pollutant, you must provide the results of at least one analysis for that mark column 2-t for any pollutant, you must provide the results of at least one analysis for that mark column 2-t for any pollutant, you must provide the results of at least one analysis for that mark column 2-t for any pollutant, you must provide the results of at least one analysis for that mark column 2-to any pollutant.	phenols. If you ason to belie ou mark colu	ou are not required eve is present. Mark	to mark colum "X" in column	n 2-a (seci 12-c for ea	ondary Indusi oh pollutant y e results of at	ries, nonproc ou believe is least one an	ess waslewate absent. If you alysis for that p	r ourfalfs, and mark column ollutant if you	
2a for		id isnii no.	nonrequired GCMS fractions), mark "X" in column 2 b for each polition, you know or have leason to believe is present. Wark "X" in column 2,c for each polition, you believe is absent. If you mark column 25 for any polition, you must provide the results of at least one analysis for that pollutant. If you mark column 25 for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark you must provide the results of at least one analysis for that pollutant. If you mark you must provide the results of at least one analysis for that pollutant. If you	st one analys	(で) ながいものと、マスコーのはつないがた。	1. C. U. S. S.	rmi zo for any pollut	ant, you must	provide Int			2		
the recolum	or have reason sults of at least in 2b, you must	to believe i one analys either subm	Know or have reason to believe a will be discharged in concentrations of 10 ppb or greater. If you mark column 25 for accolain, acrylonitile, 2.8-dight opinend, or 2-methyl-4, 6 dinitrophend, you must provide the reasons of a second to pipe or greater. Otherwise for pollurants for which you discharge in concentrations of 100 ppb or greater. Otherwise for pollurants for which you mark column 2b, you must either submit at least one arinysis or breity gisonbethe reasons the pollurant is expected to be discharged. Note that there are 7 begies to this part, please review each carefully.	icentrations ants which y briefly desp	of 10 ppb or greater 1f y out know or have reason i whethe reasons the pollu	you mark coll to believe th; utant is expe	umn 2b for acrolein, at you discharge in a	acrytoniit ile, 2 soricentrations sd. Note that 1	4 dinitropi of 100 ppt here are 7	heriol, or 2-m 5 or greater pages to this	athyl 4, 8 dini Otherwise for part, please	trophenol, you pollutants for review each ca	must provide which you mai prefully.	**************************************
1. POLLUTANT	2. MAF	2. MARK X	ANT 2. MARK'X.	u ucirol ia lo	aguniogal details and require	duirements				STIMILE	TS	T.N.	R WIAKE Confidence	
AND CAS	a. TEST- b. BE- c	C.BE.	a. MAXINUM DAILY	VAIUE	b: MAXIMUM 30 DAY VALUE		C. LONG TERM AVRG. VALUE					a LONG TERM		b. NO. OF
	RE. PRE.	7 AB.	CONCENTRATION	(2) MASS	(1) (2) CONCENTED A TIOM	(Z) MASS	(1) (1) CONCENTON	(2) MASS	L	a concen- TRATION	S A S C	छ। ःः	SS	ANAL
METALS, CYANIDE,	AND TO	HENOLS		1 1 1 1 1 1 1	Section 1998		CONCENTION		YOUN			IKATION		
1M. Anilmony, Total (7440:36-0)	×		0.0073						-	mg/L		< 0.001		
2M. Arsenic, Total (7440-38-2)	×		0.09			<u></u>			-	mg/L		< 0.001		-
3M. Beryllum, Total, (7440-41:7)	×	_	< 0.001						<u>_</u>	mg/L		< 0.001		~
4M. Cadmium, Total (7440-43-9)	×	-	< 0.0001						-	mg/L		< 0.0001		-
5M. Chromlum, Total (7440-47-3)	×		0.007						,	mg/L		< 0.001		-
6M. Copper, Total (7440-50-8)	×		< 0.001						-	mg/L		< 0.001		-
7M. Lead, Total (7439-92-1)	×		< 0.002			-			-	mg/L		< 0.001		-
8M. Mercury, Total (7439-97-6)	×		< 0.0001						-	mg/L		< 0.0001		-
9M, Nickel, Total 7 (7440-02-0)	X		0.002						-	mg/L	-	0.009		-
10M. Selenium, 1 Total (7782-49-2)	×		0.024						-	mg/L		< 0.001		-
11M. Silver, Total (7440-22-4)	×	·-	0.0001						T-	mg/L		< 0.0001		-
12M. Thallium. Total (7440-28-0)	×		< 0.002				-		-	mg/L		< 0.002		-
13M. Zinc, Total (7440,66-6)	×	_	0.014						-	mg/L		0.012		-
14M. Cyanide. Total (57-12-5)	×		> 0,005	·					ν-	mg/L		< 0.005		-
15M. Phenols, Total	×		< 0.005	-					-	mg/L		< 0.005		-
DIOXIN 2,3,7,8-Tetra			DESCRIBE RESULTS											
chlorodibenzo-P		× —												

ERA ID. NUMBER (copy from them 1 of Farm 1) OUTFALL NUMBER 001

NUMBER Office of the control of the	c. BE- LIEVED AB-	a Maximum Dail)	3. EFFLUENT b.MAXIMUM 30 DAY VALUE (ff available)	c: LONG TERM AVRG	LUUE A	4. UN	UITS b. MASS	5. INTAKE (optional a. LONG TERM: AVERAGE VALUE	onail b. NO. OF ANAL
GCMS FRACTION - VOLATILE COMPOUNDS	SENT JUNDS	CONCENTRATION	CONCENTRATION	CONCENTRATION	78 (4) (4) (4) (4) (4) (4) (4)	YSES		(I) CONCEN- (Z) MASS TRATION: (Z)	YSES
1V, Aarolein (107-02-8) X		< 0.001				1 mg/L		< 0.001	-
2V. Acrylanlirile X ((07-13-1)		< 0.001			-	l mg/L		< 0.001	
3V Benzene X		< 0.001				i mg/L		< 0.001	-
4V. Bis (Chlord: methyl) Ether (542-88-1)	×	-							
		< 0.001			`	1 mg/L		< 0.001	<u> </u>
6V, Carbon S. Y. Tetrachloride S. Y. (56-23-5)		< 0.001				I mg/L		< 0.001	-
7V, Chloroberzene (108-90-7) : X		< 0.001				mg/L		< 0.001	-
8V, Chlorodi bromomethane (124-48-1)		< 0.001			-	mg/L		< 0.001	~
9V, Chloroetharie		< 0.001			-	l mg/L		< 0.001	
10V. Z-Cirioto- elbýlýjnyl Ether (110-75-8)		< 0.001			_	mg/L		< 0.001	-
(67-66-3) X		< 0.0005			_	mg/L		< 0.0005	-
12V. Ulchloro- bromomethane: X (75.274)		< 0.001				mg/L		< 0.001	+
diffuctionethane		< 0.001				mg/L		< 0.001	~
ethane (75-34-3)		< 0.001			-	mg/L		< 0.001	-
15V 71.2-Lyenloro- elhane (107-06-2) X		< 0.001			\	mg/L		< 0.001	-
16V 1.1-Dichloro etirylene (75-36:4)		< 0.001				mg/L		< 0.001	-
17V, 1, 2-Dichloro propane (78-87-5) X		< 0.001				mg/L		< 0.001	-
18V. 1,3-Dichloro		< 0.001				mg/L		< 0.001	-
19V, Ethylbenzene (100-41-4)		< 0.001				mg/L		< 0.001	-
zuv. Menyl Bromide (74-83-9) X		< 0.001			-	mg/L		< 0.001	-
21V Methyl Chloride (74:87.3) X		< 0.001				mg/L		< 0.004	7

	E				1	1		Γ	T	1	1		Į.	<u> </u>	I	1	I		ī	 	1	1		· ·
	b NO OF AttAL		-	\ \-	_	-	-	_	V.,	_	-	-		~	-	_	-	_	_	~	-	_	<u></u>	-
	5. INTAKE (option a. LONG TERM WERAGE VALUE.																							
	5. INTAKE (option a Long Term AVERAGE VALUE (1) CONCEN TAMES	TRATION	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.002		< 0.005	< 0.005	< 0.005	< 0.024	< 0.042	< 0.005	< 0.03	< 0.024	< 0,005	< 0.005	< 0.0027
	b. MASS																							
	4. UN 4. CONCEN- TRATION		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
UMBER 001	d NO. OF ANAL	YSES	1	-	-	-	-	-	- -	γ	·-	-		1	-		~	~ -	-	~	—	-	- -	-
OUTFALL'NUMBER 001	တ																							
	c, LONG TERMAVEG, VALUE (if available) (i) (1) (2) MAS	CONCENTRATION									·			-										
984 00066	NT 7 VALUE (2) MASS																							
EPAT.D: NUMBER (copy from them 1 of Form 1) TN8640006682	3 EFFLUENT 5 MAXIMUM 30 DAY VALUE (6 sivalistic) (1)	CONCENTRATION										,												
	DÁILY VALUE																							
,	A MAXIMUM DAILY	ntinued)	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.002		< 0.005	< 0.005	< 0.005	< 0.024	< 0.042	< 0.005	< 0.03	< 0.024	< 0.005	< 0.005	< 0.0027
	X, C, BE LIEVED AB.	OJ SONIO	-		·								8									•		
	2. MARK X b BE UEVED LI PRE-A	COMPC										-	GNUOGN											
AGE V-4	a TEST MG RE.	OLATIE	×	×	×	×	×	×	×	×	×	×	CID COL	\times	×	×	×	×	×	×	×	×	×	×
CONTINUED FROM P	1. POLEUTANT 2. MARK X. AND CAS 1 TEST-16, BE C. BE 1. MAXIMUM NUMBER 1970 (LEVED ILEVED 16. 1986) (If available) RE 1. PRE 18. (1)	GC/MS FRACTION - V	Zzv. Metriylerie Chloride (75:09-2)	23V. 1/1,2,2-Tetra- chloroethane //9-34-57	24V. Tetrachloro- ethylene (127-16-4)	25V. Tolluene (108:88-3)	26V 1,2-Trans- Dichloroethylene (156-60-5)	27V - 1, 1, 1-1 m- chloroethane (71-55-6)	z8v, 1,1,2-in- chloroethane (79:00-5)	29V Trichloro- ethylene (79:01-8)	30V. Frichlaro- fluoromethane (75-69-4)	31V, Vinyl Chloride (75-01-4)	GC/MS FRACTION A	(95.57.8) X	zA. 4.4-Ulchord: phenol (120:83-2)	34, 2,4-DimethyF. phenol (105-67-9)	4A. 4,5-Dinitro-U Cresol (534-52-1)	5A. 7,4-Uinfra. phenol (51-28-5)	6A, 2-Nitrophenol (68-75-5)	/A. 4-Nifrophenol (100:02-7)	6A, P-Uniero-M Gresol (59-50-7)	9A. Pentachloro- phenol (87-86-5)	10A. Phenol (108-95-2)	11A. 2,4,6-Trichloro- phenol (88-06-2)

AND CAS a TEST. b. BE: c. BE: a. MAXIMUM DAII NUMBER ING. (LEVED (LEVED (if available) RE: PRE RB. (AURED SENT: CONCENTRATION	a. Test. b. BE- ING LIEVED RE- QUIRED SENT	c BE- LIEVED AB- SENT	a. Maximjum Dajly value (1) (2) Mass	b waximum so Da (if available) (1)	Y VALUE	c.LONG TERM AVR.G. VALUE (If available) (1) (2) MASS	54 P. G. 1840.	d NO OF	a Concent	TS b MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCEN. (2) MASS	AKE (option ERM VALUE 2) MASS	b. NO. OF ANAL YSES
GC/MS FRACTION : B/ 1B. Acenaphthene (83-32-9)	ASEINEUTRAL (COMPOU	1.1					Total			KATION		
2B. Acenaphiylene	: >		, ,					-	1 20 1		< 0.001		-
3B. Anthracene	< :		100.07					-	mg/L		< 0.001		-
(120-12-7) 48 Renzidhe	×		< 0.0007					77	mg/L		< 0.0007		τ-
(92-87-5)	×		< 0.00008					-	mg/L		< 0.00008		-
bb. Benzo (a) Anthracene (56-55-3)	×		< 0.0003					-	mg/L		< 0.0003		-
6B. Benzo (a) Pyrene (50-32-8)	X		< 0.0003					-	mg/L		< 0.0003		-
78. 3.4-8enzo- fluoranthene (205-99-2)	×		< 0.0003					-	mg/L		< 0.0003		\
8B. Benzo (<i>ghl)</i> Perylene (191-24-2)	×		< 0.001					-	mg/L		< 0.001		-
9B. Benzo (k) Fluoranthene (207-08-9)	×		< 0.0003					-	mg/L		< 0.0003		-
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)	×		< 0.005					<u></u>	mg/L		< 0.005		-
11B. Bis (2-Chloro-v.) ethyl) Ether (111-44-4)	×		< 0.00.1					-	mg/L		< 0.001		-
128. Biş (2-Chloró- İsopropyl) Ethèr (102-80-1)	×		< 0.005					-	mg/L		< 0.005		-
13B. Bis (2: <i>Elhyl-</i> h <i>exyl</i>) Phihalate (117-81-7)	×		0.009					-	mg/L		0.007		-
14B. 4-Bromor phenyl Phenyl Ether (101:55:3)	×		< 0.005						mg/L		< 0.005		-
158. Butyl Benzyl Phthalate (85-68-7)	×	,,. <u>.</u>	< 0.005					-	mg/L		< 0.005		-
16B, 2-Chloro- naphthalene (91-58-7)	×		< 0.005					-	mg/L		< 0.005		-
17B, 4-Chloro- phenyl Phenyl Ether (7005-72-3)	×		< 0.005					-	mg/L		< 0.005		-
185. Cmysene (218-01:9)	×		< 0.001					-	mg/L		< 0.001		-
195. Dibelizo (a.n.) Anthracene (53-70-3)	×		< 0.001	·				4	mg/L		< 0.001		-
benzene (95-50-1)	×		< 0.002					·-	mg/L		< 0.002		-
benzene (541-73-1)	×		7										

CONTINUED FROM PA	AGE V-6				Ш	EPATD, NUMBER roopy from tem 1 of Form 1) TN8640006682	(llem 1 of Form 7.) 06682		OUTFALL NUMBER 001	омвек 001		_			
1. POLLUTANT	2	MARK X		STATE OF THE STATE		SCHEPTUENT					4 UN	IITS		KE (optional)	
NUMBER ING	NG ES	UEVED L	EVED	₩		∢ 6		c LONG TERM AVRG. VALUE. (if available)		d NO OF	E CONCEN-	b. MASS	AVERAGE VALUE		NO OF
(if available)	RE- OURED	PRE- 14 SENT S	9 11 11	RE- PRE- (2) MA (2) MA (2) MA (2) MA (2) MA (2) MA (3) MA (3) MA (4) MA	(2) MASS	CONCENTRATION: (2) MASS	CONCENT	10000	(2) MASS	AN'AL.	TRATION		(1) CONCEN- (2) MASS TRATION	2) MASS	YSES
GC/MS FRACTION - B 22B. 1.4-Dichloro-	ASEINEU	IRAL CO	MPOUN	OS (continued)					10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×						
benzene (106-46-7)	×			< 0.0044						-	mg/L		< 0.0044		-
23B. 3.3"Dichlore: benzidine (91-94-1)	×			< 0.025						-	mg/L		< 0.025		* -
24B. Diethyl Phthalate (84-66-2)	×			< 0.0019							mg/L		< 0.0019		-
258 Dimethyl Phthalata (131-11-3)	×			< 0.0016						-	mg/L		< 0.0016		—
268. DI-N-Butyl Phtfialata (84-74/2)	×			< 0.0025						-	mg/L		< 0.0025		-
278: 2:4 Dintro toluene (121-14-2)	×			< 0.001						~	mg/L		< 0.001		
288: 2,6:Dinfro toluene (606-20-2)	×			< 0.005				•		-	mg/L		< 0.005		-
298. DI-N Optyl Phihalate (117.84-0)	×			< 0.01						-	mg/L.		< 0.01		T -
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			×												
310, Fluoranthene (206-44-0)	×			< 0.001						-	mg/L		< 0.001		-
32B. Fluorene (86.73-7)	×			< 0.0003						-	mg/L		< 0.0003		-
33B : Hexachlorobsozene (118-74-1)	×			< 0.001				-		-	mg/L		< 0.001	-	-
34B, Hexa- chlorobuladiene (87-68-31	×			< 0.005			-			-	mg/L		< 0.005		-
35B. (fexachloro- cyclopentadiene (77-47-4)	×			< 0.03						-	mg/L		< 0.03		-
36B Hexachloro- ethane (67.72-1)	×			< 0.0005						-	mg/L		< 0.0005	 -	-
37B. Indena (1,2,3.cd) Pyrene (193-39-5)	×			< 0.001						-	mg/L		< 0.001		-
38B. Isophorone (78-59-1)	×			< 0.005				,	-	-	J/gш		< 0.005	-	-
396: Napithalene (91-20-3)	×			< 0.001						-	mg/L		< 0.001		-
40B. Nitrobprizene (98-95-3)	×		_	< 0.01						-	mg/L		< 0.01		τ-
41B. N-Nitro- sodimethylamine (62-75-9)	×			< 0.001						1	mg/L		< 0.001		-
42B. N-Nitrosodi- Propylamine (621-64-7)	×			< 0.00008				_	_	+	mg/L	-	< 0.00008		-

AND CAS ATEST IN BE GRBE A MAXIMUM NUMBER ING LEYED LEYED S. (1) (If ayallable) RE ONLY AB. (0)	f, b, be- c, be- Lieved Lieved Pre- Ab- Sent Sent	a MAXIMUM DAILY VALUE (1) (2) MASS	b. MAXIN/UM 30 DAY VALUE (If available) (1) (2) MASS	9, EONGTERM AVR (fi available)	3. VALUE O'NO, OF (2) MASS ANAL	F a CONCENT L	D MASS	AVERAGE VALUE (1) CONCEN. (2) MASS	NO. OF ANAL YSES
GC/MS FRACTION BASE/NE 436 N-Nitro:	UTRAL COMPOU	NDS (continued)	1.1		010 T	l/om		NOIN LO	
<u>o</u>		< 0.0007				mg/L	, v	× 0.003	
45B. Pyreine (129-00-0)		< 0.0003				mg/L		0.0003	- -
46B. 1,2.4 - Trl: chlorobenzene: X		< 0.005			-	mg/L) v	< 0.005	-
GC/MS FRACTION - PESTICIDES	JESCON DAYS.					(1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			e e
1P. Aldrip (1999-00-2)	×	< 0.00001			~ -	mg/L	0 >	0.00001	-
2P. α-BHC (319-84-6)	×	< 0.00001			-	mg/L	0 >	0.00001	-
3P. û -BHC (319-85-7)	×	< 0.00001			-	mg/L	× 0.	0.00001	-
4P. Y-BHC (58-89-9)	×	< 0.00001			+-	mg/L	-0 ^	0.00001	-
5P, 8; BHC (319-86;8)	×	< 0.00001		,	-	mg/L	0 0	0.00001	-
6P. Chlordane (57-74-9)	×	< 0.00001			_	mg/L	0 >	0.00001	<u></u>
7P - 4 4-DDT (50-29-3)	×	< 0.00001			-	mg/L	× 0.	0.00001	-
8P. 4,4'-DDE (72-55-9)	×	< 0.00001			-	mg/L	0 >	0.00001	-
9P. 4,4'-DDD (72-54-8)	×	> 0.00001			-	mg/L	0 v	0.00001	-
10P. Dieldrin (60-57-1)	×	< 0.00001			-	mg/L	0 v	0.00001	-
116: α-Endosulfan (115-29-7)	×	< 0.00001			-	mg/L	0 v	0.00001	-
12P. ()-Endosulfan (1(5-29-7)	×	< 0.00001			-	mg/L	0 >	< 0.00001	-
13P., Endosulfan († 5. gulfate († 5. g.) Sulfate († 5. g.) (1031-07-8) (* 5. g.)	×	< 0.00001			-	mg/L	0 V	0.00001	-
14P. Endrin (72-20-8)	×	< 0.00001			-	mg/L) v	0.00001	-
15P Endrin Aldehyde (7421-93-4)	×	< 0.00001			-	mg/L).0 ×	0.00001	-
16P. Heptachlor (76-44-8)	×	< 0.00001			-	mg/L	v 0,0	< 0.00001	_

| CONCENTRATION CONCENTRATION CONCOO CONCENTRATION CONCOO |---|
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PLEASE PRINT OR TO THE INSTITUTION OF SEPTIMENT OF SEE INSTRUCTIONS.	YPE IN THE UNSH arale sheets (use l	IADED AREAS ONL' The same format) inst	PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages SEE INSTRUCTIONS.	all of ges.	EPALD NUMBER (copy from from 16 of Form 1). TN8640006682	y from Item, 1.5 1864000661	/சல்ன் சி. ் 82			
V ÎNJAKE AND EFFL	UENT CHARACTE	ERISTICS (continued	V. INTAKE AND EFFLUENT CHARACTERISTICS (contribed from page 3 of Edith 2-C)						NOUTFALL NO.	o.
PART A - You must on	ovide the results of	at least one analysis	PART A - You must provide the results of at least one analysis for every pollutant in this table.	ble. Complete	Complete one table for each outfalk. See Instructions for additional detalls	ictions for addil	ional detalls.	1 5 2 1 1 2 1 1 1		
1. POLLUTANT	a, MAXIMUI	a, MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY V	ACUE	c. LONG TERM AVRG. VALUE. (If available)	d. NO. OF	20 Z	Quin	4. IN IAKE (optional) a LONG TERM AVERAGE VALUE	l ü
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRA	SS	(2) MASS	1.71	a. CONCEN-	b. MASS	MASS	SES
a Biochemical (Xygen Demand (BOD)	9						mg/L			
b, Chemical Oxygen Demand (COD)	41					-	mg/L			
c. Total Organio Carbon (TOC)	3.9					-	mg/L			<u> </u>
d, Total Suspended. Söllds (TSS)	7.0					-	mg/L			
e, Ammonia (as N)	0.05		-			-	mg/L			
L Flows	VALUE	1389	VALUE	>	VALUE 1316	365	MGD		VALUE	
g. Temperature (Winter)	VALUE	27.1	VALUE	>	VALUE 18.6	182)		VALUE	
h. Témperature (summer)		34.7			VALUE 28.8	183	O,		VALUE	
	MINIMUM 7.0	MAXIMUM 8.2	MINIMUM MAXIMUM	WON		61	STANDARD UNITS	UNITS		
PARTB - Ma ell	ark "X" ir column 2- her directly, or indin vilde quantitative d	a for each pollufantly ectly but expressly, in ata of an explanation	you know or have reason to I nan effluent limitations guide of their presence in your dis	belieye is pres iline, you musi schärge:, Com	ent. Mark "X" in column 2:b for each t provide the results of at least one an ipletelone table for each outfall. See	pollutant you be rafysis for that p the instructions	ollulant. For other pollulant. For other pollulant.	If you mark or ollutarits for want for war and requirem	Mark IX. In column 2 a for each politiant you know of have reason to believe is pessent. Mark IX. In column 2.b for each pollutant you believe is pessent. Mark IX. In column 2.b for each pollutant. For other pollutant, pollutant gradeline, you must provide the results for that pollutant. For other pollutant, for which you mark column 2a you must provide the results for that pollutant. For other pollutant, for mark column 2a you must provide the results of an explanation of their presence in your discharge. Complete one tack for each outsit for each outsit of an explanation of their presence in your discharge. Complete one tack for each outsit for each outsit of a sadditional datalis and requirements.	
L L	2. MARK X	A MAYIMIM DAILY VALID	V-VALUE STATES	XIMIM 30.DAY VALUE	VATUE	Jan all IVA		4, UNITS	5, INTAKE (optional)	
يوفي إلان	LIEVED AB- SENT	(1) CONCENTRATION	ŏ	(if eyaliable)	(1) (1) CONCENTRATION		d NO. OF a CONCENTANAL TRATION	N b MASS	AVERAGE VALUE (2) MASS (2) MASS (2) MASS	b. NO. OF ANAL.
10.5	×	<2					1 mg/L			::
b, Chlorine, S. Total Residual	×	< 0.05					2 mg/L			
c Color	×	5		-			1 PC Unit	=	,	
d, Febal Colliorm	×									
e, Fluoride (16984-48-8)	×	0.10					1 mg/L			
f, Nitrate Nitrite (as N)	×	0.26	· .				1 mg/L			
]

A	II EM V-B CONTINUED PROM PAGE V-1	INUEU PKC	JIK PAGE	٧-٦											
No. Control		a BE. TA	K Y Y	a. MAXIMITIS DAIL	1 YVALUE	3.6 Otoe mismaken H	FFLUENT			The second	4 D	ITS	5. INTAKE		
X 0.29 1 mg/L X < 5 1 mg/L X < 6.04 1 mg/L X < 6.02 1 mg/L	La 33 8 8	LIEVED PRE- SENT	LIEVED AB SENT	(1) CONCENTRATION		(I) (Aveilad	le) (2) MASS	CONTRACTOR	/RG. VALUE (e) (2) MASS	6 NO OF		b. MASS	a.LONG-TERM AVERAGE VALUE (1) (1)	1	b. NO. OF ANAL- YSES
X < < > < > < > < < > < < > < < > < < > < < > < < > < < > < < < > < < > < < < < > < < < < < > < < < < < < < > < < < < < < < < < < < < < < < < < < < <	1.00	×		0.29				CASE TO SOLON.		1			CONCENTRATION	1	tes
X 0.004 1 <td>Oil and irease</td> <td></td> <td>×</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>mg/L</td> <td></td> <td></td> <td></td> <td></td>	Oil and irease		×							_	mg/L				
X X	Phosphorus as Pl, Total 7723-14-0)	×		0.04						-	mg/L				
X	Radioactivity								1.00 km 1.00 km						
X X	otal		×												
X X X X X X X X X X Y	2) Beta otal		×												
X X	3) Radium, otal		×		1										
X 26 Model Model<	1) Radium 26, Tofal		×												
X < 6.002 Mg/L Mg/L X 0.644 Mg/L 1 mg/L X < 0.13	Sulfate is SO [] 1808-79-8)	×		26						-	mg/L			.	
X 0.64 Morth Morth Morth Morth X 0.29 1 mg/L Mg/L X 0.065 0 1 mg/L X <0.065	Sulfide is SJ	×		< 0.02						-	mg/L				
X < 0.029 1 mg/L X 0.055 1 mg/L X < 0.055	Suffite Is SO4) 4265-45:3]	×								_	mg/L				
X 0.055 Mg/L Mg/L Mg/L X < 0.055	Surfactants	×		< 0.1						-	mg/L				
X 0.056 Mode Mod Mode Mode Mo	Aluminum blat 429-90-5)	×		0.29						-	mg/L				
X < 0.02 Mg/L Mg/L X 0.23 Mg/L Mg/L X 11 Mg/L Mg/L X < 0.023	Barlum, otal 440-39-3)	×		0.055						-	mg/L				
X < 0.001 Mg/L X 0.23 1 mg/L X 11 1 mg/L X < 0.066	Boron, otal 440-42-8)	×	-	< 0.2				,		_	mg/L				T
X 0.23 mg/L X 11 mg/L X <0.05	Cobalt, otal 440-48-4)	×		< 0.001						-	mg/L		-		1
X < 0.006 1 mg/L X < 0.006 1 mg/L X < 0.006 1 mg/L X < 0.0083 1 mg/L X < 0.0083 1 mg/L Mg/L Mg/L	fron, Total 439-89-6)	×		0.23						4	mg/L				1
X < 0.02 1 mg/L X 0.066 1 mg/L X < 0.05	Magnesium, otal 439-95-4)	×	,	11						-	mg/L				
X 0.066 1 X < 0.05	Molybdenum, otal 439-98-7)	×		< 0.02						-	mg/L				
X < 0.005 X 0.0083	Manganese otal 439-96-5)	×		0.066							mg/L				
X 0.0083	Tin, Totat 440-31-5)	×								-	mg/L				
AND CONTRACTOR OF THE PROPERTY	.Titanium, Stal 440-32-6)	×		0.0083						-	mg/L				

such G nonreq 2a for Know c	SC/MS fractions pured GC/MS fr any pollutant, y or have reason sults of at least	that apoly is ractions), in our must pro	such GCMS fractions that apply to your industry and for ALL tooke metals, eyanides, and total pilenois. If you are not required to mark column 2-c for each pollutain you believe a fractionally mark "X" in column 2-c for each pollutain you believe is absent. However, the column 2-c for each pollutain you believe is absent. If you mark column 2-c for each pollutain you believe is absent. If you mark column 2-c for any pollutain, you must provide the results of atteast one aftalysis for that pollutain. If you mark column 2-c for any pollutain, you must provide the results of atteast one aftalysis for that pollutain.	toxic mel ach pollul	such GCMS factions that apply to your Industry and for ALL took metals, cyanides, and total chemois. If you are not required to mark column 2-a factions), mark "X" in column 2-b for each pollutain you know or have reason, to believe is present. Mark "X" in column 2-c for each poluriant you believe is absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2-b for any pollutant, you must believe it will be discharged in concentrations of 10 pop or greater. If you mark column 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2-b for any pollutant, you must be discharged in concentrations of 10 pop or greater. If you mark column 2-b for any pollutant.	tenols II) son to bell i-mark col	you are not required leve is present. Mari umin 2b for any pollu	to mark colu k *X* in colur	mn 2-a (se nn 2-c for e st provide t	condary Industri ach pollutant yo he results of at Ir	es, fronproc 1 believe is east one and	ess wastew absent. If yo alysis for tha frophenol, yo	ater outfalls, a u mark colum pollutant if y	pu U
Know	or have reason to	to helieve it	- F		of 10 ppb or oreater - If vor	n mark or		fant Louismus			asi Ole are	rysis for mai frophenol, yo	poliutani ii yo	1. 情知是
E TOO	n 2b, you must o	one analysii either subm	know or have (eason to believe it will be discharged in concentrations of 10 ppb or grapile; if you mark column 2b for acroisin, acryonitrile, 2,4 dinitrophenol, or 2 majovi 4, 6 dinitrophenol, or 2 majovi 4, 6 dinitrophenol, you must provide the results of an analysis for each of these pollutarits which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise for pollutarits for which you must provide the reasons the pollutarits for which you may make all their submit at least one analysis or briefly describe the reasons the pollutarits for which you may have a provided to be discharged. Note that there are 7 pages to this part, please review each carefully.	ntrations s which your	ulants which you know or have reason to believe that you discharge in concentrations or 100 ppb or greater. Otherwise for polutiants for which you briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully.	belleve to	lumh 25 for acrolein, hat you discharge in ected to be discharg	acrylonitrile concentration ed Note tha	2,4 dinitro 1s of 100 p t there are	phenol, or 2-mel ob or greater. C 7 pages to this r	nyl-4, 6 gm Inerwise for art, please	pollutants fr review each	u must provid or which you n carefully	¥ m m
1. POLLUTANT	2. MARK X	X X	Complete the layer (4* / pages), to teach guide. See its trupicus for additional getalls and requirements. Ant	clions for	additorial details and regu	urements.				SING P				
AND CAS NUMBER	a, TEST. b. BE-	b. BE- c. BE-	a: WAXIMUM DALLY VALUE	En.	6. MAXIMUM 30 DAY VALUE	<u> </u>	C. LONG TERM AVRG. VALUE	G VALUE		5		No.1.e	a LONG TERM	b NO.OF
	RE. PRE.	PRE: AB.	(1)	(2) MASS		(2) MASS	(1) (1)	(2) MASS		a CONCENT TRATION	D MASS	(1) CONCEN	ONCEN. (2) MASS	YSES
METALS, OYANIDE, AND TOTAL PHENOLS	AND TOTAL P	HENOLS:	CONCERNING		CONCENTRATION		CONCENTRATION		YSES			TRATION		2.00
1M. Antimony, Total (7440-36-0)	X		< 0.001						₹•	mg/L	3.	and the state of t		
2M. Arsenic, Total (7440-38-2)	×		0.0024						-	mg/L				
3M. Beryllum, Total, (7440-41-7)	×		< 0.001							mg/L				
4M, Cadmium, Folal (7440-43-9)	×		< 0.0001						τ-	mg/L				
5M, Chromium, Total (7440-47-3)	×		< 0.001						-	mg/L			_	
6M. Copper, Total (7440-50-8)	×	ļ. 	0,004						-	mg/L				
7M. Lead, Total (7439-92-1)	×		< 0.001						-	mg/L				
8M. Mercury, Total (7439-97-6)	×		< 0.0001						-	mg/L				
9M. Nickel, Tolal (7440-02-0)	×		< 0.001	-		-			-	mg/L				
10M, Selenium, Total (7782, 49-2)	×		0.0028						-	mg/L				
11M, Silver, Total (7440-22-4)	×		< 0.0001			-			-	mg/L				
12M. Thallum. Total (7440-28-0)	×		< 0.002						-	mg/L				
13M: Zinc, Total (7440-68-6)	×		0.012						-	mg/L				
14M. Oyanide Total (57-12-5)	×		< 0,005						-	mg/L				
15M Phenois, Total	×		< 0.005						-	mg/L				
DIOXIN			Presonan and					3 (1) 3 (1) 4 (2)						
chlorodibenzo-P		×	חבסראוםם אבסחרוס											

EPATO NUMBER (copy from tiem 1 of Form 1) 001 FALE NUMBER 002

KINGS ILLEVED LIFEVED OUR RESTRICT OF A SENTENCE OF A SENT	CONCENTRATION CO	(if available) (2) MASS	(if available)	d NO OF	a CONCEN- b MASS		1
Coms Fraction - Vol Affile Compoinds V. Aggielin X Aggielin X Aggielin X V. Aggielin X V. Aggielin X V. Aggielin X V. Agryconitride X X Av. Bis (Chaotomerical X V. Chloroberization V. Chloro	< 0.001	CONCENTRATION	CONCENTRATION (2) MASS		TRATION	(1) CONCENT (2) MASS YSES	ANAL
	< 0.001					A THAT I DIN TO THE TOTAL OF TH	
					mg/L		
North Nort	< 0.001			-	mg/L		
	< 0.001				mg/L		
× × × × × × × × × × × ×							
× × × × × × × × × × ×	< 0.001			-	mg/L		
× × × × × × × × ×	< 0.001			-	mg/L		
× × × × × × × × ×	< 0.001			-	mg/L		
× × × × × × × ×	< 0.001			-	mg/L		
× × × × × ×	< 0.001			-	mg/L		
× × × × × ×	< 0.001			-	mg/L		
× × × × ×	< 0.0005		-	-	mg/L		
× × × >	< 0.001			-	mg/L		
× × >	< 0.001			-	mg/L		
× >	< 0.001			-	mg/L		
> 50	< 0.001				mg/L		
~	< 0.001			\	mg/L		
X	< 0.001				mg/L		
X	< 0.001			-	mg/L		
ene ja	< 0.001			-	mg/L		
X (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	< 0.001			-	mg/L		
21V Methyl Chloride (74.87-3) X	< 0.001			-	mg/L		

CONTINUED FROM PA	tge v4			EPATO: NUMBER (copy from lien 1 of Form 1) TN8640006682	340006E		OUTFALL NUMBER 002	002					
1. POLLUTANT	2. MARK 'X'	1K 'X'						W. 1. 244	STINU .	118	5 1N 5	AKE Jonfood	2
NUMBER ING	A LEST DE BE	o, BE.	a. MAXIMUM DAILY	b. MAXIMUM 30 DAY (if evallable)	WALUE	c LONG TERM AVRG VALUE (fravallable)	, A.	d. NO. OF	a CON	MASS	A LONG TERM	_	b NO OF
(if available)	RE, PRE AB- CUIRED SENT SENT	RED SENT SENT	CONCENTRATION (2) MASS	CONCENTRATION	(Z) MASS	CONCENTRATION	(Z) MASS	ANAL-	TRATION		(1) CONCENT (2) MASS		YSES
GC/MS FRACTION - VC 22V: Methylene	OLATILE COM	SOUNDS (c)	ontinued										
Chloride (75-09-2)	×		< 0.001	-				7 -	mg/L				
23V. 1,12,2-Telra- chloroethane (79-34-5)	×		< 0.0005					-	mg/L				
24V. Tetrachloro- ethylene (127-18-4)	×		< 0.0005					-	mg/L				
25V. Toluene (108-88-3)	×		< 0.001					-	mg/L				
26V. 1,2-Trans- Dichloroethylane (155-60-5)	×		< 0.001					-	mg/L				
27V. 1,1,1-Tri- ctiloroethane (71:55:6)	×		< 0.001			·		-	mg/L				
28V, 1,1,2 Tri- chloroethane (78:00:5)	×		< 0.0002					-	mg/L			,	
29V. Trichloro- ethylene (79-01-6)	×		< 0.001					-	mg/L				
30V. Trichlaro- Nuoromethane (75-59-4)	×		< 0.001					-	mg/L				
31V. Vinyl Chloride (75-91-4)	×		< 0.002					-	mg/L				
GC/MS FRACTION - A	CID COMPOUR	SQ.											0.4000000
(95-57-8) X	×		< 0.005					_	mg/L				
zA, Z,4-Lilohloro- phenol (120-83-2)	×		< 0.005					· -	mg/L				
34, 2, 4:Dimethyl- phenal (105:57.9)	×		< 0.005					-	mg/L				
4A, 4 & Dinitro-O. Cresol (534-52.1)	×		< 0.024					-	mg/L				
54, 2, 4. Dinitra phenol (51-28-5)	×	-	< 0.042					-	mg/L				
6A. 2-Nitrophenol (88-75-5)	×		< 0.005					-	mg/L				
7A. 4.Nitrophenol (100:02:7)	×		< 0.03					-	mg/L				
8A, P-Chloro-M Cresol (59-50-7)	×		< 0.024					—	mg/L				
9A. Penlachloro- phenol (87-86-5)	×		< 0.005					-	mg/L				
10A Phenol (108-95-2)	×		< 0.005					1	mg/L				
114, 24, 6-1 //chloro. phenol (88-06-2)	×		< 0.0027	, .					mg/L		-		

T. POLLUIANI	7	NING.				ט בררנטם	Z	THE STATE OF STREET	1 St. 1 St.		4. UN	CIND	Z .	AKE (options	=
NUMBER	a. Test ING	D. BE- LIEVED	LIEVED	a. MAXIMUM DALLY VALU	uù.	Uki 30 DA Tavallable)	Y.VALUE	10 P	197 m	d No of	a CONCEN-	b MASS	AVERAGE	a LONG TERM	
(if available).	RE- QUIRED 3ASE/NE	PRE SENT UTRAL C	AB- SENT	II avalibble) RE: PRE A8. CONCENTRATION GONG FRATION GOOD REATION GOOD FRATION GOO	(2) MASS	concentration	(2) MASS	1 - Ze	ø2	YSES	TRATION		TRATION (2) MASS	(2) MASS	YSES
1B. Acenaphihene (83:32-9)	×			< 0.001	3			7 5 6 6 7 8	5	-	mg/L	7. V		\$ 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	r Ž
2B, Acenaphtylene (208-96-8)	×			< 0.001						-	mg/L				
3B. Arithracene (120-12-7)	×	ı		< 0.0007						-	mg/L				
4B. Benzidine (92-87-5)	×			< 0.00008							mg/L				
5B. Benzoj(a) Anthracene (56-55-3)	×			< 0.0003							mg/L				
6B, Benzo (a). Pyrene (50-32-8)	×	<u>.</u>		< 0.0003						-	mg/L				
7B. 3.4-Benzo- fluoranthene (205-99-2)	×			< 0.0003						-	mg/L				
8B, Benzo (ghi) Perylene (181-24-2)	×			< 0.001						-	mg/L			·.	
9B. Benzo (kl Fluoranthene (207-08-9)	×			< 0.0003						-	mg/L				
10B, Bis (2-Chiloro- ethoxy) Methane (111-91-1).	×			< 0.005						-	mg/L				
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)	×			< 0.001						-	mg/L				
12B. Bis (2-Chloro- isopropyl) Ether (102-60-1)	×			< 0.005						-	mg/L				
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	×			0.003	·					+-	mg/L				
14B, 4-Broing- phenyl Phenyl. Ether (101-55-3)	×			< 0.005						-	mg/L				
15B. Bulyl Benzyl Phthalate (85-68-7)	×			< 0.005						-	mg/L				
16B. 2-Chloro- naplithalene (91-58-7)	×			< 0.005						-	mg/L				
17B 4-Chloro- phenyl Phenyl Ether (7005-72-3)	×			< 0.005						-	mg/L				
18B_Chrysene (218-01-9)	×			< 0.001						τ-	mg/L				
19B. Dibenzo (a.h). Anthracene: (53-70-3)	×			< 0.001						-	mg/L				
20B, 1.2-Dichloro- benzene (95-50-1)	×			< 0.002						-	mg/L				
21B. 1,3-Dichloro-:- benzene (541-73-1) ··	X			< 0.002						-	mo/L				

ARK X	in in	A MAXIMIM RAILY VALIE	LIN	N864UUU ENT	I N8640U0668Z 002 S. S. EFFUENFORMS SELECTION OF SELECT	(1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	700	4. UNITS	33	N 6	AKE (options	
NT POUN		10. 05. 10. 05	g poddinum au Un II value (f evallable) (2) MASS CONCENTRATION	(2) MASS	CLONG LEFM AVR (If available) (1) CONCENTRATION	g	d NO. OF ANAL: YSES	a CONCEN. b. TRATION	b, MASS	AVERAGE VALUE (1) GONCEN (2) MASS. I RATION	E VALUE E VALUE (2) MASS	b, NO. OF ANAL: YSES
		< 0.0044					-	mg/L				
		< 0.025					-	mg/L				
		< 0.0019					-	mg/L				
		< 0.0016					-	mg/L				
	l .	< 0.0025						mg/L				
		< 0.001					-	mg/L				
		< 0.005					-	mg/L				
		< 0.01					-	mg/L				
×	ı											
		< 0.001					-	mg/L				
		< 0.0003					τ-	mg/L				
		< 0.001						mg/L				
		< 0.005					-	mg/L	-			
		<0.03					-	mg/L				
		< 0.0005					-	mg/L				
		< 0.001						mg/t				
		< 0.005						mg/L				
		< 0.001		-			-	mg/L				
		< 0.01						mg/L				
		< 0.001					1	mg/L				
		< 0.00008						Poca				

1. POLLUTANT 2. MARK XI. AND CAS 8. TEST- 0. BE- 0. BE- 1. WINBER ING LIEVED LIEVED 1. WINBER ING LIEVED 1. WINBER	2, MARK 'X' TEST- 10, BE- 10, BE- 3 LIEVED LIEVED	a.w.k	. [>:- [LONG TERM AVRG V	1 Table 1 Table 1	d. NO. OF.	a CONCEN. b. MASS	9. IN LANE (ODITORIAL) S. LONG TERM AVERAGE VALUE AVERAGE VALUE	ANE (Oplions) TERM EVALUE	b. NO. OF ANAL:
CIMS FRACTION - BASE	I'RED SENT SENT EINEUTRAL COMPOL	JNDS (contin	(1) NTRATION (2) MASS NTRATION (2) MASS	CONCENTRATION (2)	(Z) MASS CONG	CONCENTRATION.	(Z) MASS	ANAL		(1) CONCENTER TRATION	(2) MASS	YSES
43B N-Nifro- sodiphenylamine (86-30-6)	×	v V	< 0.005					-	mg/L			
44B. Phenanthrene (85-01-8)	×	,0 ×	< 0.0007				-	-	mg/L			
458. Pyrene (129-00-0)	×	\ \ \ .0 \	< 0.0003						mg/L			
46B. 1,2,4 - Tri- chlorobenzene (120.82-1)	×	0 >	< 0.005						mg/L			
GC/MS FRACTION - PESTICIDES	TICIDES				(1) 10 10 10 10 10 10 10 10 10 10 10 10 10		7.1 17.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2					
1P. Aldrin (309-00-2)	×	> 0.0	< 0.00001		· · · · · · ·		·	-	mg/L			
2P. œ BHG (319-84-6)	× 	< 0.0	< 0.00001		•				mg/L			
3P. 0 -BHC (319-85-7)	×	< 0.0	< 0.00001					₹	mg/L			
4P. y- BHC (58-69-9)	×		< 0.00001					~	mg/L			
5P, 5-BHC (319-86-8)	×)'0 >	< 0.00001					-	mg/L			
6P. Chlordane (57-74-9)	×	> 0,0	< 0.00001					-	mg/L			
7P 4,4'-DDT (50-29-3)	×	> 0.0	< 0.00001					-	mg/L			
8P: 4,4".DDE (72-55-9)	×		< 0.00001					<u>_</u>	mg/L			
9P. 4,4'-DDD (72-54-8)	×	!	< 0.00001					-	mg/L			
10P, Dieldrin (60-57-1)	×	<u> </u>	< 0.00001					-	mg/L			
11P. α-Endosulfan (115-29-7)	×	· ·	< 0.00001					-	mg/L			
12P_0-Endosulfan (115-29-7)	×	٧	0.00001				<u>-</u>	-	mg/L			
13P Endosulfan Sulfate (1031-07-8)	×		< 0.00001					7-	mg/L			
14P Endrin (72-20-8)	×		< 0.00001						mg/L		_	
159, Endrin Algelyde (7421-93-4)	×		< 0,00001					-	mg/L			
16P Heptachlor (76-44-8)	×		< 0.00001					- -	mg/L			

PLEASE PRINT OR THE III'S INFORMATION ON SEPTIME INSTRUCTIONS.	PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same formal) instead of completing these pages. SEE INSTRUCTIONS.	AREAS ONI <i>e format)</i> ins	.Y. You may restead of comple	port some or all o ling these pages.	ا ا	EPA (D.	EPALD: NUMBER/CODY FOR LIGHT 19(Form 3) TN8640006682	i from Item 1 c 364000668	(Form 1) 12				
V. INTAKE AND EFFL	V. INTAKE AND EFFLUENT CHARACTER STICS (continued from page 3 of Folm 240	S (continue	d Irom page 3	at Form 2:C.)								OUTFALL NO.	N. ro
PART A. You must pri	PARTA. You must provide the results of at least one analysis for every polludant in this table. Complete one table for each outfall. See	one analysis	for every pollo	tant in this table	Complete on	table for each o	ulfall See Inst	Instructions for ad	additional details				
1. POLLUTANT	A. MAXIMUM DAILY	VALUE	b. MAXIM	MUM 30 DAY VALUE	<u>.</u>	ONG TERM AVRO		20 GE	s units (specify if blank)	ank)	4. INTAKE (optional	pfloral)	
	(1) CONCENTRATION	(Z) MASS	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	ANALYSES	a CONCEN. TRATION	b, MASS	AVERAGE VALUE: (1) (2) MASS CONCENTRATION	ASS	ANALYSES
a Biochemical Oxygen Demand (800)													
b. Chemical Oxygen Demand (COD)													
c. Total Organic Carbon (TOC)													
d. Total Suspended Solids (TSS)					-							-	
e. Ammotila (as N)													
í Flow	VALUE 3.2		VALUE		VALUE	!		-	MGD	_	VALUE		
g Temperature (winter)	VALUE		VALUE		VALUE				ပ္		VALUE		
h. Temperature (summer)	VALUE		VALUE		VALUE				ပ္		VALUE		
Hd -	MINIMUM MAXIMUM	иом	MINIMUM	MAXIMUM	/ \	$\left \right\rangle$	\/		STANDARD UNITS	UNITS	\int_{0}^{∞}	$-\frac{1}{2}$	
PARTS Man elln prov	k 'X''in column 2-a for eac ar directly, or indirectly but ide quantitetive data or an	h pollutant y expressiy, in explanation	ou know or hav an effluent lim of their presen	e reason to bellev Italions guideline, se in your dischar	re is present yau must pro ge. Complete	Mark "X" in colur vide the results o one table for eac	nn 2-b for each of at least one a ch oulfall, See	pollulant you nafysis for that the instruction	belleve to be abse pollutant. For oth s for additional del	it. If you mar er pollutants fi ells and requir	Mark "X" in column 2 a for each pollutant you know or have reason to believe is piesent. Mark "X" in column 2 b for each pollutant. For other pollutant is column 2 a for any pollutant which is limited either growing guideline, you must provide the results of at least one analysis for which you mark column 2 a you must provide quantitative data of an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.	. which is limited a, you must	/ B
1, POLUUT. 3 BE. ANT AND LIEVED	2. MARK X. 8. 8E. b. 8E. a. MA IBVED LIEVED	a. MAXIMUM DAILY VALUE	CVALUE	3. b. MAXIMUM (if av	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available)	IOT 9	G LONG TERM ÄVRG. VALUE (# ava/lab/e)	VALUE	NO OF BLCONGEN	UNITS N- b. MASS	5, INTAKE (ODII a LONG TERM AVERAGE VALUE	(optional)	90, OF
	SENT SENT CONCENTRATION		(Z) MASS	(1) CONCENTRATION	(2) MASS	S (1) CONCENTRATION		(2) NASS	ANAL: TRATION YSES		CONCEN	og og	ANAL- YSES
(24959-67-9)									·				
b, Chlorine. Total Residual													
o. Color						,							
d. Fecal Collform													
e. Fluoride (16984-48.8)													
f. Ntrate. Ntrite (as N)													
													7

	1, POLLUT. 1, BE 15, BE: ANT AND LIEVED LIEVED CAS NO. RRE AB- (If evailable) SENT SENT		Grease Grease	1. Phosphórus (as P). Total (7723-14-0):	dioactivity	lpina,	(2) Beta Total	(3) Radium, Total	(4) Radium 226. Tolal	k. Sulfate (as SO /) (14808-79-8)	linde:	m Suffie (as SO /) (14265-45:3)	n. Surfactants	o. Aluminum Total (7429-90-5)	p. Bárium, Tótal (7.440-39-3)	iron, 3-42-8)	r. Coball, Fotal (7440-48-4)	n Total 9-89-6)	gnesium. 9:95-41	u, Molybdenum Total (7439-98-7)	anganese, - -	W. Tin, Total (7440-31-5)	
K X.	b BE LIEVEO AB- SENT																						
ŀ	a. MAXIMUM DAILY VALUE (1) (2) M							,										0.19					
	ALY VALUE (2) MASS					_													,				
3. 1	√ §																						
EFFLUENT	B. MAXIMUM 30 DAY VALUE (If available) (1) (CENTRATION																,						
	C TONG TERMAVRG VALUE ((revallable) (1) (C) MAS	NOTION BROWN																		-			
	RG VALUE 6) (2) MASS																						
-	d. NO. OF a. C. ANAL- TE																	2					
4 UNITS	a. CONCEN. b. M TRATION																	mg/I					
R. C.	D MASS AVERA	CONCENTRATION															,						-
INTAKE ZABISABA	3. IN TAKE (oplional) a.LONG-TERM AVERAGE VALUE (1) (1)	NG																					_
11 000					10 mg/s						Į.						}						

EPA Form 3510-2C

The set of the control of the contro	PART C. Il you are a primari such GC/MS frash notinequired GC/M 2a for any pollution know or have reas the results of at lea column 2b, you mu	y industry a	and this copily to you mark		/astewater /	efer to Table 2c-	S. IA THE PERFECT				vou must test fo	or. Mark "X"			
The control of the co	norrequired Scymology (2) to any pollution (2) to the reast the results of a full column (2b. you mit Complete one stable		y mark	outall contains probessy our industry and for ALL t	oxic metals, o	cyanides, and tot	al phenols. If y	ions to determine whi ou are not required to	ch of the GC/W mark column	IS fractions 2-a (second	ary Industries, r	и ssedovdnor	n collumn 2-a fo əsterrələr outta	its and	
The control of the	50.010.010.01	S nations, S nations,	ve it will it	A in coupling to tot ear the results of at least on be discharged in concert each of these pollutarits last one analysis of bridge	in polititatiny a sanalysis for trations of 10 Williams of 10 Williams of 10 Williams for salari and trations for salari and t	ou know or have rithat pollutant. If pipb or greater, low or have reaso the reasons the particle of the parti	reason to belle you mark color if you mark color in to believe the colorium to believe the colorium to expe	vers present, mark mn 2b for any polluter umn 2b for acrolein, a umn 2b for acrolein, a tryou discharge in co	X. In column X. It, you must pricylonitrile, 2.4 ncentrations of	c for each poyide the re- dinitropher (100 ppb or ere-are 7 pa	ollurant you bei sults of at least of or 2-methyl- greater. Cities ges to this part	lieva s abser one analysis 4. 6 dinitropi vise for pollu please revie	II. If you mark for that pollutar lend, you must trants for which weach careful	column It if you provide You mark	
Control Cont	1. POLLUTANT 2. N	IARK X		AR WILLIAM TOWN	מווק ומ	3. EFFL	EN1				NO 4	15	5. INT	AKE (options	
Control Cont	AND CAS & TEST. b	BE CE	BE	a. MAXIMUM DAILY VAI	30°	b. MAXIMUM 30 E	AY VALUE	C. LONG TERM AV	RG. VALUE	JO CI	NUCHOUS .	HAOG	a LONG		D. NO. O
Aito Total Priestous 0.066 0.066 2 mg/l	RE.	Aug.				(1) ONCENTRATION		(1) CONCENTRATION			TRATION	100		(2) tAASS	YSES
	ETALS, CYANIDE, AND TOTA	L PHENOI								200			50.5		
0.066	1M. Antimeny, Total (7440-36-0).														
0.066	l. Arsenic, Total 140-38-2)														
0.066	1. Beryllum, (1440-41.7)														
0.068	/ Cadmium, naj (7440-43-9)														}
2 2	1. Chromium, tal (7440:47:3):			,											
Lead Total Sa-Sz-1)	. Copper Total: 40:50:8)		<u> </u>	0.066						2	mg/l				
Weicum Tale	L.Lead Tolai 139-92-1)		-												
Nickel Trial Mickel Trial Mick	.Mercury. Total: (39-97-6)														
M. Siver: Total 440-22-4) M. Siver: Total 440-22-4) M. Thaillium: Lat (7440-28-0) M. Zino: Total M. Oyanide Lat (57-12-5) M. Phenols:	1. Nickel. Total 440-02-0)											····			
M. Siyer, Total (40-22-4) M. Thaillim, M. Zhe, Total M. Zhe, Total M. Zhe, Total M. Zhe, Total M. Zhe, Total M. Cyanide	M. Selenlum, tal (7782-49-2)														
M. Triallium, fig (7440:28-0), M. Zinc, Total M. Cyanide, M. Cyanide, M. Cyanide, M. Cyanide, M. Phenois, M. Phenois, M. Oxini	M. Silver, Total 440-22-4)														
M. Zinc, Total 440_66_6) M. Cyanide M. Cyanide M. Cyanide M. Phenols. M. Phenols.	M. Thaillum. rtal (7440-28-0)									·					
M. Cytaride (a): (57:12-5) M. Phenois dal Cytaride	M. Zinc. Total 44065-6)														
M Phenois.	M. Cyanide, lai (57:12-5)														
NIXO	M. Phenois,														
	NIXO										-		•		

AND CAS	a TEST: N. BE.	98 E	a. NAXIMUM DAILY	VALUE	b RAXIMUM 30 DAY	VALUE	C. CONG TERM AYRG VALUE	G VALUE		4. UNITS		5, IN a, LONC	TAKE (option)	na/) Is NO O
(fravolable) RE- RRE- A8- CURED SENT SENT	RE- PRE- QUIRED SENT	LIEVED AB- SENT	CONCENTRATION.	(2) MASS	(f) (2) MASS CONCENTRATION	(2) MASS	(ff.evallable) (1) CONCENTRATION	(2):MASS	ANAL-	a CONCEN- TRATION	b, NASS	(1) CONCENT (2) MASS YSES	E VALUE (2) MASS	YS
GC/MS FRACTION IV. Acrolein	VOLATILE COMPO	SONO							3	4400000		IRSHOT		
(107-02-8)		•			-						-		_	
2V. Acrylonitrije (107-13-1)														
3V. Benzene (71-43-2)									-					ļ
4V. Bis (Chloro- melhyl), Ether														ļ
54.2-64-11 5V. Bromoform (75:25-2)														
6V. Carbon Tetrachlojide														
20-22-01 7V. Chlorobenzene (108-90-7)														
8V. Chlorodi: bromomethane (1724.48.1)				-						-				
9V. Chloroethane (75-00-3)									1					
10V, 2 Chloro ethylwinyl Ether (110-75-8)														
11V. Chloroform (67-66-3)	Saturation Access													
12V. Dicitiora: bromomethane (75-27-4):	Satura e e													
13V_Dichlorg difluoromethane (75-71-8)	& A. 147													
14V. 1.1-Dichloro- etharie (75-34-3).	88 M													
15V 1,2-Dichloro ethane (107-06-2)					-									
16V 1.1-Dichloro: ethylene (75-35-4)														
17X 12-Dichloro- propane (78-87-5)														
18V, 1.3:Dichloro- propylene (542-75:6)					-									
19V. Ethylbenzene (100-41-4)														_
20V. Methyl Bromide (74-83-9)	esser i P													
21V. Methyl Chloride (74-87-3)														\perp

DOD LOGAL	CONTINUED FROM PAGE V4	GE V4					EPA1.0: (MUMBER (eloy from tem 1 ar Form 1) TN8640006682	ciopy from Item 18640006		OUTFALL NUMBER 005	NUMBER 005					
Profit Both Outes Course C	1. POLLUTANT AND CAS NUMBER	a. TEST	MARK b. BE LIEVED	c. BE	B. MAXIMU	VALUE	3. EFFLU) b. MAXIMUM 30 DF (d'avadable	ENT XY VALUE	c LONG TERM AV	G VALUE	d NO OF	S C S	IITS Hass	5. INTAKE (oplonal) a LONG TERM	KE (öptiona ERM) b. NO. OF
	(if available)	RE. OUIRED	PRE. SENT	SENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(z) MASS	ANAL YSES	TRATION) 2 3	(ii) CONCER-	(2) MASS	YSES
	V. Methylene fonde (75:09-2)	יבאוורב		200	numina)											
	23V 1,1.2.2-Telra-															
	oroethane 3-34-51							·						• • •		•
ACID COMPOMENTS	18-4)					•			·							
	:												-			T
	V. 1,2-Trans- chloroethylene 56-60-5)															
ACID COM POUNDS.	V. 1.1.1-Trik oroethane (55.6)															
ACID ECOMPOGNDS																
ACID COMPOUNDS.	V. Trichloro- lylene (79:01-6)							-								
ACID COMPOUNDS.	V. Trichloro ordmethane -69-4)															
ACID COMPOUNDS	V. Vinyl toride. (75-01-4)															
	MS FRACTION - AC	DCOMP	SOUNDS			WINESE CO.					3.1.38.7.8		* 400-200	200000000000000000000000000000000000000		300000000000000000000000000000000000000
	2-Chlorophenol -57-8)	• • • • • • • • • • • • • • • • • • • •			·											
	.z.4-Dichloro- enol (120-83-2)															
	2,4-Dimethyl- enol (105-67-9)				,	,			i							Ī
	4,6 Dinitro-0- esol (534-52-1)												-			
							,									
	2-Nitrophenol -75-5)															
															-	
	Pentachlora. anol (87-86-5).															
2. 2.4.6. Tritaltono: niol (48-06-2)	k. Phenol 8-95-2)															
State of the state	A 2,4,6-Trichloro- riol (88-06-2)															

CONTINUED FROM	PAGE V-5	181	a apple of the second		200 E	. A. 1 4 2								
AND CAS	a TEST- h BE-	c BE	A MAXIMUM DALLY VALUE	. VALUE	15. MAXIMUM 30 DAY VALUE	4Y VALUE	⊊ LONG TERM AVRG VALUE			4	SLIND	5. INT	AKE (cottona	b NO. OF
(if available)	KE PRE	AB	CONCENTENTION	(2) MASS	(mavayao)e)	(2) MASS	(T. available	ıσ	ANAL.	a. CONCEN- TRATION	D. MASS	(1) CONCEN (2) WASS YS	VALUE 2) MASS	ANAL- YSES
GC/MS FRACTION:	BASE/NEUTRAL	COMPOL	JNDS		CONCENTRATION		CONCENTRATION		YSES			TRATION		
1B. Acenaptitiene (83-32-9)														
2B. Acenaphtylene (208-96-8)									•					
38. Алфітаселе (120-12-7)														
4B. Bertzidine (92-87-5)														
5B. Benzo (a) Anthracene (56-55-3)														
68. Benzo (a) Pyrene (50-32-8)														
78. 3.4 Benzo- fluoramhene (205-99-2)													-	
88. Berizo <i>(ghi)</i> Perylene (191-24-2)														
98. Benzo (k) Fluoranthene (207:08-9)														
10B. Bis (2:Chloro: ethoxy) Methane (111-91-1)														
11B. Bis (2: <i>Chleno</i> - ethyl) Elher (111-44-4)														
12B. Bis <i>12: Chiloro-</i> isopropyl) Ether (102-60-1)														
13B_Bis_(2:Elf/yt. nexy/)_Pnthalate (117-81-7)														
14B. 4-Bromo. phenyl Phenyl Ether (101-55-3)														
15B. Butyl Benzyl Phthalate (85-68-7)														
16B, 2-Chlürö- naphthalene (91,58-7)					,									
17B. 4 Chloro- phenyl Phenyl Ether (7005-72-3).				-										
18B. Chrysene (218-01-9)														
19B. Dibenzo (a.n) Anthracene (53:70:3)	;													
20B. 1.2-Dichloro benzene (95:50-1)														
21B. 1.3-Dichloro- bertzene (541-73-1)														
				1							1	-		

S. C. T. WIES	(1 aveilable)																					
Y VALUE	IEVED	43B NAUfrice Special Commonwealth (45B NAUfrice Section (45B NAUfr	44B. Phenaultirene (85-01-8)	45B. Pyrene (129-00-0)	468, 1/2, 4 - Tri- chloroberzene (120-82-1)	GCMS FRACTION: PESTICIDES	(30g:00-2)	28: w-BHG (319-84:6)	3P. J. BHG (319:85-7)	4P BHG. (58:89.9)	5P. & BHC (319-86-8)	99. Chlordane (57:774.9)	7F 4 4:9D1 (50:29-3)	8P. 4.4.00E (72-55-9)	9P. 4.4:000 (72:54:8)	(07, Dieldrin (60-57-1)	119- z.£ridōsilfan: (115-29:7)	12P_0-Endosullain (115-29-7)	13P, Endositition Salfate (1031:07-8)	14P, Eridrin (72-20:0) (72-20:0) (72-20:0)	15P. Endiffi Addinyde (7421:93-4):	16P Heptachior

	b, NO. OF ANAL: YSES									-	
	offione SS										
	5. INTAKE (0 a. LONG TERM AYERAGE YALUÉ (1) CONCEN- IN (2) MA	(333): 4 (5) -									
	w										
	그렇게 뛰는	TRATION									
UMBER 005		YSES									
OUTFALL NUMBER 005	S.VALUE (2) MASS							·			
1	c. LONG TERM AVRG. VALUE (f. available) (1)	CONCENTRATION									
lem 1 of Fon 36682		SONCE									
Teopy from N86400(UENT DAY VALUE Ide) (2) MASS				-						<u> </u>
EPA LD: NUMBER (copy from them 10) TN8640006682	S. EFFLUENT b. MAXIMUM:30 DAY VALUE (if existable) (1) (2) MAS	CONCENIRATION									
EPA	98) 						-			
	X X X X X X X X X X	NATION.						-			
-											
	RK 'X'	continued)	·								
1GE V-8	2.MARK 'X' a. TEST. 6.8E. 6. ING LIEVED LI RE. PRE. A.	ESTICIDES (.	
CONTINUED FROM PAGE V-8	1. POLLUTANT AND CAS NUMBER (If available)	GC/MS: FRACTION - PESTICIDES (continued)	I7B. Heplachlor Epoxide	18P_PCB-1242 (53469-21-9)	19P, PCB-1254 (11097-69:1)	20P, PCB-1221 (11104-28-2)	21P, PCB-1232 (11141-16-5)	(12672-29-6)	(11096-82-5)	(12674-11-2)	(8001-35-2)
CON	,	CC/II	178. Hep Epoxide	18P (5346	19P (1109	20P (1110	(114 31 14	(1267	90 J	(1267) <u>8</u>

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same formal) instead of completing these pages. SEE INSTRUCTIONS.	YPE IN THE UNS arate sheets (use UENT CHARACT	HADED AREAS ON the same format) in ERISTICS (continue	LY. You may reporstead of completing	t some or all of these pages. orm 240;		EFA.I.D.:NUMBER.(copy)from (lein.1.of Form 1) TN8640006682	opy (roin them.t.) N86400066	of Form 1) 82			OUTFALL NO.
PART A: You must provide the results of at least one analysis for every pollulant in this.	ovide the results o	if at least one analysi	s for every pollutant	able	nplete one table f	Complete one table for each outfall. See instructions for additional details.	instructions for ac	tdillonal detai	S	1	200
1. POLLUTANT	a. MAXIMU	a: MAXIMUM DAILY VALUE	b. MAXIMUM	ALUE	C. LONG TE	TERM AVRG. VALUE	CZ T	specs)	uniis Ily if blank)	4. INTAKE (ophoral) a LONG TERM	Orial)
	CONCENTRATION	N (2) MASS	(1) (1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	ON (2) MASS	ANALYSES	a, CONCEN- TRATION	- b MASS	(1) (2) MASS CONCENTRATION	
a. Brochemical Oxygen Demand (ROD)	\$		_				-	∏/gш			
b. Chemical Oxygen Demand	39							mg/L			
o, Total Organio Carbon (TOC)	2.9						-	mg/L	,		
d Total Suspended Solids (TSS)	50						-	mg/L			
e, Ammonia (as M)	0.63				 		-	mg/L			
Flow	VALUE	0.51	VALUE		VALUE		-		MGD	VALUE	
q. Temberaluje (winter)	VALUE		VALUE		VALUE				ပ္	VALUE	,
n Temperalure summed	VALUE	25.7	VALUE		VALUE		2		ပ္	VALUE	
Hď :	MINIMUM 5.9	MAXIMUM 6.5	MINIMOM	MAXIMUM	//		12	STAND	STANDARD UNITS		
PARTB. Ma elt pro	rk "X" in column 2 ner directly, ar indi vide quantitative o	Mark IX, in column 2:a to each collutaint you know or have leason to believe in printer directly, or indirectly but expressly, in an effluent limitations guideline, you provide quantitative data or an explanation of their presence in your discharge. S	you know or have in an effluent limital n of their presence	eason to believe is Itons guideline, yo iti your discharge.	spresent. Mark" u must provide th Complete one ta	X*In column 2-b for e results of at least o ble for each outfall	each pollutant yo ne analysis for th See the instructio	a believe to be et pollutant. F rus for edditio	e absent If you'me for other pollutants nat details and requ	ison lo beleve is present. Mark "X" in column 2-b for each polititarit you believe to be abaint. If you mark column 2a for any pollutarit which is fimited in guideline, you must provide the results of at teast one analysis to that pollutarit. For other pollutarits for which you mark column 2a, you must your discharge. Complete one table for each outfail. See the instructions for additional details and requirements.	iich is limited ou must
1. POLLUT. a ANT AND UE	2. MARK 'X' 8E b 8E- VEO LIEVED RE- AB-	a MAXIMUMIDAL	LY VALUE (2) MASS	3. E b. MAX(MUM 30 (If availa	3. EFFLUENT (MUM 30 DAY VALUE (If available) (2) MASS	c CONGITERM AVRO	VRG. VALUE Ma) (2) MASS	d NO OF	4. UNITS a. CONCEM b. MASS TRATION	5. INTAKE (option a 1.0NG TERM as AVERAGE (ALC) [1]	prional) b. NO. DF MASS ANAL:
		CONCENTRATION <2	_	(2)		CONCENTRATION		 	mg/L	CONCENTRATION	
b. Chlorine Total Residual	×	< 0.05						2	mg/L		
c Color	×	45						1 P	PC Units		
d Fecal Colligim	×										
e. Fluoride (16984-48-8)	×	0.24						—	mg/L		
f. Nitrate. Nitrite (as N)	×	0.03						-	mg/L		
EPA Form 3510-2C (8-90)	0-2¢ (8-90)		•			Page V-1				CONTIL	CONTINUE ON PAGE V-2

	NO OF	ANAL- YSES				30 Se 10 s																		
	\perp			-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		<u> </u>	_	-	-		-							_		
100 miles	TERM (OD	VALUE (2) MASS			<u> </u>				-				ļ			ļ <u>.</u>	-			<u> </u>	-	<u> </u>		
100	n II	AVERAGE VALUE (2) MASS				2000 St. 2000																		
2 20 20 20 20 20 20 20 20 20 20 20 20 20		1 100	:						_		-	ļ												_
A LIMITE	<u> </u>	b. MASS																						
= =	7	a CONCENTRATION	mg/L	mg/L	mg/L						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	l/om
		d. NO. OF ANAL- YSES	_	-							-	-	-	-	-	-	-	-	τ	-	-	-	-	-
		92											-											
1	C. LONG TERM AVRG. VALUE	(if available)							<u> </u>						 									
	C LONG	CONCENTRATION																						
UENT	VALUE	(2) MASS:																						
3. EFF	AUM 30: DAY	(// available)																				_		ļ., <u>.</u>
	b. MAXII	(// aveilable) (1) (2) MASS CONCENTRATION				A. 1986 D.			,									١						
		(2) MASS										·												
	A MAXIMUM DAILY VALUE	-				200 ACC					_					~							2	_
ı	a MAXIN	(1) CONCENTRATION	0.1	< 5	0.05						490	< 0.02	0.64	< 0.1	1.3	0.043	1.5	0.0017	55	27	0.04	2.4	< 0.05	8000
3K X	D BE			×	×		×	×	×	×			_											
2. MA	a BE	LIEVED LIEVED PRE AB: SENT SENT									×	×	×	×	×	×	×	×	×	X	×	×	×	>
Z. MARK XV	OLLUT	CAS NO.	ogen, Organic	and e	Phosphorus (as P), Total (7723,14:0)	oactivity	oha,	ta,	Unip Unip	dum	ate 3.7 3.79-8)	ə p	n Sulfite as SO 4 14265-45-3	n. Surfactents	minum. <u>90</u> -5)	Jum. 39-3)	on, 42.8)	all, 48-4)	.Tolal 89-6)	Magnesium, otal 439-95-4)	u. Molybdenum, Tolal (7439:98:7)	y. Manganese, Total (7439-96-5)	, Total 31-5)	Engl
	—————————————————————————————————————	₹0 €	g. Nith Total ((as N)	h. Oil and Grease	(as.P). (7773;	. Radi	(1) Alpha Total	(2) Beta. Total	(3) Radium Total	(4) Radium 226, Tolal	K. Sulfate (as:SO ₄) (14808-79-8	(as.S)	m Sulfite (as SO ₄) (14265-45-3	n. Suri	o, Aluminum Total (7429-90-5)	p. Bari Total (7440-	q. Bofon Total 7440-42-8)	Total (7440-	s ron.Tola (7439-89-6)	t Mag Total (7439-	u. Molybde Tolal (7439-98-7	y. Mai Total (7439-	w. Tirt, Total (7440-31-5)	X. Titanium. Total

EPA Form 3510-2C

Part Continue Part JED F	PAGE 3 OF F	ORM 2-C				70000000000000	700		200						
Proceedings Proceedings Procedings P	PART C- If you such (are a primary GC/MS fraction quired GC/MS any pollutant	Industry an Its that applifractions), fractions),	nd this outfall contains proce by to your Industry and for A mark "X" in column 2-b for rrovide the results of at leas	ass wastewa LL foxic me r each pollut it one analys	iter, refer to Table 2c tals, cyanides, and to fant you, know or neve sis for that pollulant.	2 In the instrational instraction of the instruction of the instruction of the instruction of the instraction of the instruction uctions to determine with your are not required affects to resent. Mari	hich of the G to mark colur k "x" in colum ant volums	CIMS fraction 2-a (second 2-a	ns you must ondary indusi ch pollutant y	lest for Mar ries, nonproc ou believe is	K "X" in colum sess wastewa absent. If you	in 2-a for all lifer outfalls, a u mark colum		
Name of the control	know the re comp	or have reason sults of at leas n 26, you must lete one table (n to believe if one analy l'either sub (all 7 pages	it will be discharged in con rsis for each of these political milital least one analysis of s) for each outdalf. See that	icentrations ants which y briefly desc tructions for	of 10 ppb or greater out know or have leas ribe the reasons that additional details and	If you mark of son to believe polluiant is ex	column 25 for acrotein that you discharge in pected to be discharg	acrylonitrie, concentration ad Note that	2.4 dinitrop is of 100 ppl there are 7	nenol, or 2-m b or greater pages to this	ethyt-4 6 dini Otherwise for part, please	irophenol, yo r pollutants fo review each	u must provid ar which you n carefully.	. m . m
The part of the	1. POLLUTANT	2.MA	RKX			3 EFFLUE	Į.				3	TS.	W. S. 12 13 14	JTAKE Tonin	(Jeu
Market M		a TEST. ING	4000			6 NAXIMUM 30 DA		C. LONG TERM AVR		100 100 100 100 100 100 100 100 100 100	-		NOT e	GTERM	
MAD MAD	(if available)	RE	90		(2) MASS	(p)	(2) MASS	(1)	(Z) MASS	ANAL		`l·_	(1) CONCEN	11 -	YSES
X 0.0037 1 X 0.031 1 X 0.00058 1 X 0.0001 1 X 0.0001 1 X 0.0008 1 X 0.0001 1 X 0.0002 1 X 0.048 1 X 0.005 1	METALS, CYANIDE	AND TOT	PHENOLS	닦음		CONCENTRATION		CONCENTRATION				30.0	TRATION		
0.031	1M. Antimony, Total (7440:36-0)	×				-				-	mg/L				
Continued by the continue of	2M. Arsentc, Total (7440-38-2)	×		0.031						-	mg/L				ļ
Note	3M, Beryllum, Total, (7440-41-7)	×	<u> </u>	< 0.001						-	mg/L				
<pre></pre>	4M, Cadmium, Total (7440-43-9)	×		0.00058						—	mg/L				
X < 0.001 1 1 1 1 1 1 1 1 1	5M. Chromlum, Total (7440-47-3)	×		< 0.001					-	-	mg/L				
X X X X X X X X X X	6M, Copper, Total (7440-50-8)	×	-	< 0.001						-	mg/L				
X < 0.008	7M. Lead, Total (7439-92.1)	×		< 0.001						-	mg/L				
X < 0.008 1 X < 0.0001 1 X < 0.002 1 X < 0.048 1 X < 0.005 1	8M. Mercury, Total (7439-97-6)	×		< 0.0001						-	mg/L				
X < 0.0001	9M. Nickel, Total (7440-02-0)	×	 <u>-</u> -	0:008						-	mg/L			,	
X < 0.0001	10M. Selenium (×		< 0.001						-	mg/L				
X < 0.048 1 X < 0.005 1 X DESCRIBE RESULTS 1	11M Silver Total (7440-22-4)	×		< 0.0001						-	mg/L				
X 0.048 1 X < 0.005 1 X < 0.005 1 X < DESCRIBE RESULTS 1	12M Thallium, Total (7440-28-0).	×		< 0.002						-	mg/L				
X < 0.005	13M. Zinc, Total (7440-66-6)	×		0.048						-	mg/L				
X	14M. Cyarilde, Tolai (57.12-5)	×		< 0.005						-	mg/L				
×	(5M. Phenois Total	×		< 0.005						-	mg/L				
×	NIXOIO						100	·	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			A Company			
	2,3,7,8-Tetra- chlorodibenzo-P Dioxin (1764-01-6)		×												8) 8) 9)

EPA LD. NUMBER/copy, from flein of Form () OUTFALL NUMBER 007

AND CAS a, NUMBER	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	C BE- LIEVEC	a; MAXINUM DAIL	VALUE	b. MAXIMUM 30 DAY VALUE (If ayalable)	Y VALUE	c. LONG TERM AVRG. VALUE		d NO.OF		b MASS	a LONG TE AVERAGE VA	RM (oplioni	įΣ. ≅ia
(fl.avallable) RE PRE AB- GOMS FRACTION VOLATILE COMPOUNDS	PRE PRE	AB- SENT	(1) CONCENTRATION	(2) MASS	CONGENTRATION	(2) MASS	(1): CÓNCENTRATION	(Z)MASS	YSES	TRATION	13.00	(1) CONCEN- (2) MASS YSES	MASS	``
1V. Acrolein (107-02-8)	×		< 0.001					100	-	mg/L				
2V. Acrylonitrile (107-13-1)	×		< 0.001						-	mg/L				1
3V. Benzena (71-43-2)	×	ļ	< 0.001						-	mg/L				
4V. Bis (Chloro- methyl) Ether (542-88-1)		×									-			
5V, Bromoform (75-25-2)	×		< 0.001						-	mg/L				1
6V. Carbon Teirachloride. (56-23-5)	×		< 0.001						-	mg/L	_			
7V. Chlorobenzene (108-90-7)	×		< 0.001						-	mg/L				
8V. Chlorodi- bromomethane. (124-48-1)	×		< 0.001						-	mg/L				
9V Chloricethane (75-00-3)	×		< 0.001						-	mg/L				-
10V, 2-Chloro- ethylvinyl Ether (110-75-8)	×		< 0.001						-	mg/L				
11V, Chloroform (67-66-3)	×		< 0.0005	-					-	mg/L				
12V. Dichloro- bromomethane (76-27-4)	×		< 0.001						-	mg/L				1
13V. Dichlgra- difuoromethane (75-71-8)	×		< 0.001				,		-	mg/L	-			
14V. 1,1-Dichloro- elhane (75-34-3)	×		< 0.001						-	mg/L				}
15V 1,2-Dichloro- ethane (107-06-2)	×		< 0.001						-	mg/L				
16V. 1,1-Dichloro- eliýlene (75-35-4)	×		< 0.001						-	mg/L				
17V. 1.2-Dichloro- propane (78-87-5)	×		< 0.001						-	mg/L				
18V. 1,3-Dichloro: propylene (542,75-6)	×		< 0.001						-	mg/L				
19V, Ethylbeirzene (100-41.4)	×		< 0.001						_	mg/L]
20V. Methyl Bramide (74-83-9)	×		< 0.001				,			mg/L				
21V. Methyl										-	-			l

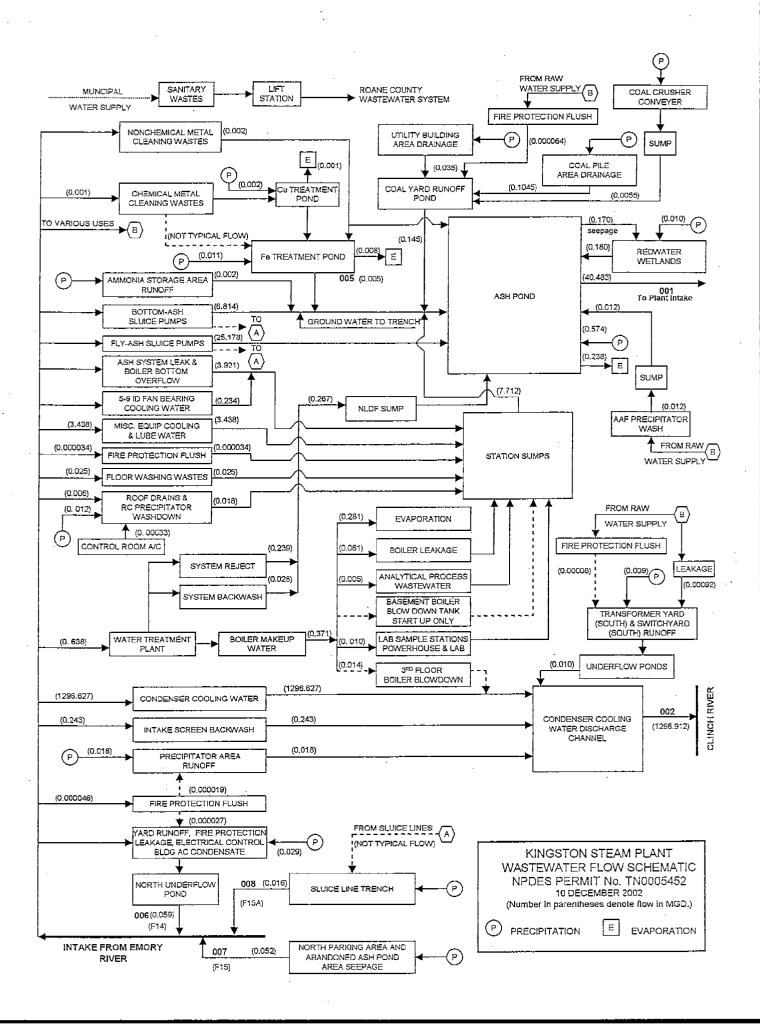
CONTINUED FROM PAGE V4	GE V-4	X			EPA.(D. NUMBER (copy reginal and 10 from 1)	3000 from Item 186400061		OUTFALL NUMBER 007	NUMBER 007		1		
AND CAS NUMBER	b. BE- LIEVED	c BE	a. MAXIMUM DAILY VALUE	VALUE	b. MAXIMUM 30:0AY VALUE	WALUE	6. LONG TERM AVRG. VALUE	G. VALUE	GZ GZ	A UN		S. INT.) b. NO. OF
(if available)	PRE. SENT	SENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(Z) MASS	(1) CONCENTRATION	(2):MASS	ANAL	TRATION	ti mass	CONCENT (2) MASS TRATION:	ANAL. YSES
22V. Methylene, Chloride (75-89-2)	×		< 0.001						_	mg/L			
23V 1,1,2,2-Tetra- chloroetharie 79-34-51	×		< 0.0005						-	mg/L			
24V. Tetrachloro- ethylene (127+18-4)	×		< 0.0005						-	mg/L			
25V. Toluene (108-88-3)	×		< 0.001						-	mg/L			
26V 12-Trans- Dictrioroethylene (156-60-5)	×		< 0.001						-	mg/L			
27V. 1,1,1-Trit chloroethane (71-55-6)	×		< 0.001						-	mg/L			
28V: 1, 1, 2: Tri: chloroethane (79:00-5)	×		< 0.0002						۲	mg/L			
29V. Frichloro- ethylene (79:01:6)	×		< 0.001						-	mg/L			
30V. Trichlorg. fluoromethene (75-69-4)	×		< 0.001						-	mg/L			
31V. Vinyl Chloride (75-61-4)	×		< 0.002						-	mg/L			
GC/MS FRACTION ACID COMPOUNDS	IDCOMPOUNDS							9.400000000					
(95-57-8)	×		> 0.005						_	mg/L			
2A, 2,4-Dichlero- phenol (120-83-2)	×		< 0.005						-	mg/L			
34, 2,4-Dimethyl: phenol (105-67-9)	×		< 0.005						~	mg/L			
4A. 4.6 Diritto O Cresol (534-52-1)	×		< 0.024						-	mg/L			
5A: 2,4-Divitro- phenol (51-28-5)	×		< 0.042						-	mg/L			
6A, 2:Nifrophenof (88-75-5)	×		< 0.005						-	mg/L			
7A. 4:Nitrophenol (100-02-7)	×		< 0.03						-	mg/L			
8A P.Chloro-M Cresol (59-50-7)	×		< 0.024						-	mg/L			
9A. Pentachloro. phenol (87-86-5)	×		< 0.005						-	mg/L			
10A. Phenol (108-95-2)	×		< 0.005						-	mg/L			
11A. 2,4,6-1 richloro- phenol (88-06-2)	·×		< 0.0027						-	mg/L			

1 POLLITANT	NAMM C	1.31		2000	NOLL PERSON	-		N. 12 (No. 12 to		WALL CASE OF STREET	ľ		1.00 mm	
AND CAS A TEST B NUMBER ING LIE	a. TEST. B. BE. C. ING UEVED LIE	c. BE- LIEVED	a MAXIMUM DAILY VALUE	VAILUE	b. MAXIMUM 30 DAY VALUE	VALUE	C. LONG TERM AVRG. VALUE	3 1 3			SAM	5. INTA 8. LONG TE AVERAGE V	KE Coplons	Nonal) b. No. OF
(if available)	RE. PRE- QUIRED SENT	SENT.	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2):MASS	ANAL-	TRATION		(1) CONCEN- (2) MASS TRATION	MASS	YSES
GCMS FRACTION - BASENEUTRAL COMPOUNDS: TB. Acenaphthere	AASE/NEUTRAL	COMPOL	JNDs.							n n				
2B. Acenaphtylene	; ;								-	ָּ . נ				
(208:96-8)	×		< 0.001						-	mg/L				
38. Anthracene (120-12-7)	×		< 0.0007			,			-	mg/L				
4B. Benzidine (92.87-5)	×		< 0.00008						-	mg/L				
5B. Benzo <i>(a)</i> Anthracene (56-55-3)	×		< 0.0003	,					-	mg/L				
6B. Benzo <i>(a)</i> Pyrene (50-32-8)	×		£0000'0 >						-	mg/L				
76. 3.4-Berizo- Nuoranthene (205-99-2)	×		£0000'0 >						-	mg/L				
88. Benzo <i>(ghi)</i> Perylene (191-24-2)	×		< 0.001						-	mg/L		į		
98. Benze (kl. Flüoranthene (207-08-9)	×		< 0.0003						-	mg/L				
108. Bls (?- <i>Chlore.</i> ethoxy) Methane (111491-1)	×		< 0.005						-	mg/L				
11B. Bis <i>12-Chlore-</i> ethyl): Ether (111-44-4):	×		< 0.001					_	_	mg/L				
12B. Bis <i>(2:Chloro-</i> sopropyt) Ether 102-60-1)	×		< 0.005						-	mg/L				
13B_BIs <i>(2-Ehvit</i> hexyl) Phihalate (117-81-7)	×		0.015		٠				-	mg/L				
14B 4-Bromo: phenyl Phenyl Ether (101-55-3)	×	-	< 0.005						-	mg/L		:		
15B. Butyl Benzyl Prithalate (85:68-7)	×		< 0.005			-			~	mg/L				
168.2-Chloro- naphthalene (91-58-7)	×	-	> 0.005						~	mg/L				
178, 4-Chlore- pnenyi Phenyi Ether (7005-72-3)	×		< 0.005						-	mg/L				
8B. Chrysene 18:01-9)	×		< 0.001						-	mg/L				
19B. Dibenzo <i>(a.h)</i> Anthracene (53-70:3)	×		< 0.001						-	mg/L				
20B. 1.2-Dichlora- benzene (95-50-1)	×		< 0.002							mg/L				
218, 1.3-Dichloro- benzene (541-73-1)	×		< 0.002							mg/L				

TINUED FROM PA														
NUMBER REST. (If available)	a TEST- b. BE- ING. PRE- C BE-	a. TEST- b. BE- (a. MAXIMUM DALLY VV. ING. LIEVED LIEVED (C. C. Y VALUE 5, MAXIMUM 30 I	비중 활	<u>ω</u>	c. LONG TERM AVRG. VALUE (If available) (1) (2) MAS	92	6. NO. OF ANAL	a. CONCEN- TRATION	o MASS	5, INTAKE (OBIO 8, LQNG TERM AVERAGE VALUE (1) CONCEN (2) MASS	AKE (opilona TERM VALUE (2) MASS	h NO. OF ANAL- YSES		
GC/MS FRACTION - BA	ASE/NEUTRAL	COMPOU	NDS (continued)	JINGANON STREET	NO.		CONCEIN MALION		1353			NO.		
benzene (106-46-7)	×		< 0.0044						,- -	mg/L				
23B. 3.3-Dichloro- benzidine (91-94-1)	×	:	< 0.025						-	mg/L				
24B, Diethyl Phthalate (84-66-2)	×		< 0.0019						-	mg/L				
25B. Dimethyl Phihalate (131-11-3)	×		< 0.0016						-	mg/L				
26B. DI-N-Butyl Phthalate (84-74-2)	×		< 0.0025						-	mg/L				
278. 2.4-Dinitro- tolugne (121-14-2)	×		< 0.001						-	mg/L				
28В. 2,6-Diniro- toluene (608-20-2)	×		< 0.005						-	mg/L	-			
Philhalaie (117-84-0)	×		> 0.01						₩-	mg/L				
30B. 1,2-Diphenyl. hydrazine (as Azo-) benzene) (122-86-7)		×												
31B. Fluoranthene (206-44-0)	×		< 0.001						1	mg/L				
32B. Fluorene (86-73-7)	×		< 0.0003		·				-	mg/L				
33B. Hexachlorobenzene (118-74-1)	×		< 0.001						-	mg/L				
34B, Hexa- chlorobutadiene (87-68-3)	×		< 0.005			:			-	mg/L				
35B. Hexachloro- cyclopentadlene (77-47-4)	×		<0.03						₩.	mg/L				
36B. Hexachloro ethane (67-72-1)	×		< 0.0005	-					1	mg/L				
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	×		< 0.001	,					-	mg/L				
38B, Isophorone (78-59-1)	×	,	< 0.005						-	mg/L				
39B. Naphthalene (91-20-3)	·X		< 0.001						-	mg/L				
40B, Nitrobenzene (98-95-3)	×		< 0.01			1	-		_	mg/L				
41B. N-Nitro- sodimethylamine (82-75-9)	×		< 0.001						-	mg/L				
42B. N-Nitrosodi. Propylamine	>		00000											

AND CAS STEST NUMBER NG (If available) QUIRED.	TEST DE BE- IG LIEVED S PRE UIRED SENT ENABLITANI CY	C. BE. LIEVED AB. SENT	a: TEST b. BE. C. BE. A MAXIMUM DALLY VALUE. NG. UIEVED LIEVED RE. PRE AB. (2) MASS RUNGED, SENTE SENTE. SENTE AB. CONCENTRATION RASEMENT SENTE SENTE.	b. MAXIMUM 30 DAY VALUE: (I aranaba) (OONCENTRATION	C, LONG TERM AVRG VALUE (f. available) (1) (2) MAR CONCENTRATION	VALUE G. NO. OF (2) MASS ANALE WSES	a. CONCI	D. MASS	5. INTAKE (option at LONG TERM AYERAGE VALUE (1) CONCEN (2) MASS TRATION	5. INTAKE (optional) LONG TERM DERAGE VALUE SEN TON (2) MASS TON	b, NO. OF ANAL- YSES
43B, N-Nilro; sodiphenylamine, (88-30-6)	×		< 0.005				mg/L				
44B, Phenanthrene (85-01-8)	×		20000 >			-	mg/L				
45B. Pyrene. (129-00-0)	×		< 0.0003			-	mg/L				
46B, 1,2,4 r Trit- chlorobenzene (120-82-1)	×		< 0.005			-	mg/L				
GC/MS FRACTION - PESTICIDES	TICIDES	17. 90		8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		A property of				1. A. 1. A. 1. E.	
1P. Aldon (309-00-2)		×	< 0.00001				mg/L				
2P. a-BHC (319-84-6)		×	< 0.00001				mg/L				
3P. B -8HC (319-85-7)		×	< 0.00001			-	mg/L				
4P, y- BHC (58-89-9)		×	< 0.00001			-	mg/L				
5P. N- BHC (319-86-8)		×	< 0.00001			-	mg/L				
69, Chlordane (57,74-9)		×	< 0.00001			-	mg/L				
7P. 4,4-00T (50:29-3)		×	< 0.00001			-	mg/L				
8P. 4,4-DDE (72:55-9)		×	< 0.00001			-	mg/L				
9P. 4,4-DDD (72-54-8)		×	< 0.00001			-	mg/L				
10P. Dieldrin (60-57-1)		×	< 0.00001			-	mg/L				
11P. α-Endosulfan (115-29-7)		×	< 0.00001		,	-	mg/L				
12P_B-Endosulfan (115-29-7)		×	< 0.00001	-		-	mg/L		,		
Sulfate (1031-07-8)		×	< 0.00001			-	mg/L				
14P. Endrin (72-20-8)		X	< 0.00001			~	mg/L				
15P. Endrin Aldehyde (7421-93-4)		X	< 0.00001				mg/L				
16P. Heptachlor (76-44-8)		×	< 0.00001		•		ma/L				

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1. POLLUTANT 2. AND CAS. (a. TEST.	a, TEST- 6, BE-	'X' C, BE	E SE	ALUE	S S S S EFFLUENT.	VALUE	L CLONGITERMAYRG: VALUE	I S:WALUE] 	TS.	S. S.INTAKE	S.INTAKE (optional	al)
NUMBER (if available)	ING LIEVED LEVED RE-PRE-AB- OUIRED SENT SENT	LIEVED AB- SENT	(1) GONCENTRATION	(Z) MASS	(f) ayailable)	(Z) MASS	(II ayallable)	d NO OF	ANAL-	a. CONCEN-	VALUE:	AVERAGE VALUE	VAĽUE (2) MÁSS	ANAL
GC/MS FRACTION - PESTICIDES (continued).	PESTICIDES (co.	rtinued).		The state of the s	EDI GILLIDIO		NOTING INTO A TOTAL		- T 0E 0	NOI S		IKAIION		
17B. Heptachlor Epoxide (1024-57-3)	v	×	< 0.00001				A		_	mg/L	10.00			
18P. PCB 1242 (53469:21-9)	de C	×	< 0.00005						-	mg/L				
19P_PCB-1254 (11097-69-1)		×	< 0.00005							mg/L				
20P, PCB-1221 (11104-28-2)	** e.c.	×	< 0.00005						-	mg/L				
21P. PCB-1232 (11141-16-5)	4.08 · · · · ·	×	< 0.00005						-	mg/L				
22P, PCB-1248 (12672-29-6)		×	< 0.00005						-	mg/L				
23P, PCB-1260 (11096-82-5)		×	< 0.00005						-	mg/L				
24P. PCB-1016 (12674-11-2)		×	< 0.00005						-	mg/L				_
25P. Toxaphene (8001-35-2)		X	< 0.0005						-	mg/L				



	.	EPA ID Number	(copy from Item	1 of Form 1)	Form Approved	. -
Please type or print in the unshaded a	areas only.		AL7640006675		OMB No. 2040- Approval expire	0086
2E EPA Fa	,				ess Wastewa	
For this outfall, list the latitude ar Outfall Latitude I		me of the receiving			<u></u>	
Number (list) Deg Min Sec Deg 006 35 54 00 84	Min Sec	intake canal (E				
II. Discharge Date (If a new discharge						
A. Check the box(es) indicating the ge Sanitary Wastes B. If any cooling water additives are used.	eneral type of wastes Restaurant or Cafe	discharged. eteria Wastes	A/C Cooling Wa	ater from Electric	cal Control Bldg Othe ater Wasi is available.	
IV. Effluent Characteristics 阿索維 A. Existing Sources - Provide authority (see instructions). B. New Discharges - Provide e authority. Instead of the nu	measurements for the panestimates for the panestimates	ne parameters lister rameters listed in the	ed in the left-han he left-hand colu	d column below, u imn below, unless	waived by the permitti	ermitting
Pollutant or	(1) Maxin			2) ge Daily	(3) (c Number of	or) (4) Source of
Parameter	Daily V (include	/alue units)	Value (la	ast year) le units)	Measurements Taken	Estimate (if new
Biochemical Oxygen Demand (BOD)	Mass	Concentration < 2 mg/L	Mass	Concentration	(last year)	discharger)
Total Suspended Solids (TSS)		< 1 mg/L			1	
Fecal Coliform (if believed present or if sanitary waste is discharged)		N/A				
Total Residual Chlorine (if chlorine is used)		< 0.05 mg/L Cl			2	
Oil and Grease		< 5 mg/L			1	
*Chemical oxygen demand (COD)		34 mg/L			1	
*Total organic carbon (TOC)		3.7 mg/L			1	
Ammonia (as N)		0.02 mg/L			1	
Discharge Flow	Value 0.52 M	//GD			1	
pH (give range)	Value 7.45 -	7.92			13	
Temperature (Winter)		°C		°C		
Temperature (Summer)	33.7	°C		°C	2	
*If noncontact cooling water is discharg	ed		·			

EPA Form 3510-2E (9-86)

Page 1 of 2

Except for leaks or spills, will the disc f yes, briefly describe the frequency o	of flow and duration.		Yes	X No
		•		
•				
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Treatment System (Describe briefly	any treatment system(s) used or to be used)	(G#AAAAAA)		ender der Salt er er gegen kan er in ein. 20
Teachert Gystem (Describe briefly a	my treatment system(s) used or to be used)	[6425-maxiles	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	losatilist Tollosatis, the lyangito
NONE				
NONE	•			
				1
		•		
Other Information (Optional)				
Use the space below to expand upo	n any of the above questions or to bring to the	attention of the revie	wer any other informa	tion you feel
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Certification I certify under penalty of law that this a system designed to assure that que person or persons who manage the is to the best of my knowledge and it.	n any of the above questions or to bring to the permit limitation. Attach additional sheets, if permit limitation. Attach additional sheets, if a document and all attachments were prepared talified personnel properly gather and evaluate system, or those persons directly responsible to belief, true, accurate, and complete. I am await	attention of the reviencessary. I under my direction of the information submore gathering the information that there are significant that there are significant that there are significant that there are significant that there are significant that there are significant that there are significant that there are significant that there are significant that there are significant that the s	or supervision in acconitted. Based on my immation, the information	rdance with nauiry of the on submitted
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DEPARTMENT OF ENVIRONMENT AND CONSERVATION

NPDES PERMIT APPLICATION ADDRESSES

All addresses must be o	completed even if the same address is used:
NPDES PERMIT NU	MBER: TN0005452
CORPORATE HEAD	OQUARTERS (where permit should be sent):
CONTACT PERSON:	Janet K. Watts, Manager, Environmental Affairs TELEPHONE: (423) 751-7292
COMPANY NAME;	Tennessee Valley Authority – Kingston Fossil Plant
STREET AND/OR P.C). BOX: 1101 Market Street, LP 5D
CITY: Chattanooga	STATE TN ZIP CODE: <u>37402</u>
PERMIT BILLING A	ADDRESS (where invoices should be sent):
CONTACT PERSON:	Janet K. Watts, Mgr. Environmental Affairs TELEPHONE: (423) 751-7292 Name Title
FACILITY NAME:	Tennessee Valley Authority – Kingston Fossil Plant
STREET AND/OR P.O	D. BOX: 1101 Market Street, LP 5D
CITY: Chattanooga	STATE: TN ZIP CODE: 37402
FACILITY LOCATION	ON (actual location of permit site):
CONTACT PERSON:	Linda Campbell, Program Administrator (Environmental) Name Title
FACILITY NAME:	Tennessee Valley Authority – Kingston Fossil Plant
STREET AND/OR P.O	D. BOX: 714 Swan Pond Road
CITY: Kingston	STATE: <u>TN</u> ZIP CODE: 37748
COUNTY: Roane Co	unty TELEPHONE: (865) 717-2157
——————————————————————————————————————	ORESS (where preprinted Discharge Monitoring Reports should be sent):
CONTACT PERSON:	Linda Campbell, Prog. Adm. (Environmental) TELEPHONE: (865) 717-2157 Name Title
FACILITY NAME: _	Tennessee Valley Authority - Kingston Fossil Plant
STREET AND/OR P.O	BOX: 714 Swan Pond Road
CITY: Kingston	STATE: <u>TN</u> ZIP CODE: <u>37748</u>
CN-1090	RDAs 2352 AND 2366