

Tennessee Valley Authority, 1101 Market Street, BR 4A, Chattanooga, Tennessee 37402-2801

May 30, 2017

Mr. Vojin Janjić Division of Water Resources Tennessee Department of Environment and Conservation (TDEC) William R. Snodgrass TN Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243

Dear Mr. Janjić:

TENNESSEE VALLEY AUTHORITY (TVA) – KINGSTON FOSSIL PLANT (KIF) – NPDES PERMIT NOS. TN0005452 AND TN0080870 – FORM 2C UPDATE

Please find enclosed a Form 2C update for KIF consisting of EPA Form 1, location Map, EPA Form 2C, and wastewater flow schematic. Although TVA has closed the chemical treatment impoundments which were previously located in the ball field area, TVA would like to retain internal monitoring point (IMP) 005 in the permit to discharge chemical metal cleaning wastewaters.

Wastewaters generated during chemical metal cleaning activities would be directed to a mobile treatment unit or mobile storage, such as frac tanks, where any necessary water treatment would be employed prior to discharging to the polishing pond. Flow data included on the enclosed Form 2C is estimated based on typical volumes of a boiler cleaning and analytical data are for NPDES monitoring from batch discharges of the chemical treatment pond effluent from 2006-2008, before they were closed.

If you have questions or need additional information, please contact Brad Love at (423) 751-8518, or by email at bmlove@tva.gov.

Sincerely,

Terry E. Cheek Senior Manager Water Permits, Compliance, and Monitoring

Enclosures cc: Mr. Michael Atchley Tennessee Department of Environment and Conservation Knoxville Environmental Field Office 3711 Middlebrook Pike Knoxville, Tennessee 37921 TN DEPT. OF ENV. & CONSERVATION

MAY 3 1 2017

DIVISION OF WATER RESOURCES

FORM	aced for elite type, i.e., 12 character		NVIRON	MENTA	L PROTECT	Forr TION AGENCY						
GENERAL	EPA		Cons	olidated	Permits Pro		<u>s</u> F T'N'8'6'4'0'0	0'0'6	6'8	2 T/A 1		
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EPA I.D. NON	(BER /////	'//	//		$^{\prime\prime\prime}$	/////	designated space. Review fully; if any of it is incorrect,					
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V. FACILITY	////////////////////////////////////	///	//	//	//	/////	in the proper fill-in area(s)					
/ WIRGING AL	DRESS	///	11	\mathcal{N}	$^{\prime \prime \prime}$	/////	complete and correct, you Items 1, III, V, and VI (exce					
111,	$\overline{(1/X)}$	///	11		/ / /	/////	completed regardless). Co	omplete a	ill items if	no		
LOCATION	///X///	///	11)	//	/////	label has been provided. F for detailed item description					
1111.	777X7777	1//,	11	11	11	/////	authorizations under which		•			
II. POLLUTAN INSTRUCT	T CHARACTERISTICS IONS: Complete A through J to	o determine wh	ether you	u need t	o submit any	permit application forms to t	he EPA. if you answer "yes" to a	anv quest	tions, you			
must submi	it this form and the supplement	tal form listed in	the pare	enthesis	following the	e question. Mark "X" in the be	ox in the third column if the supp	lemental	form is			
	f you answer "no" to each ques of the instructions. See also, Se						ur activity is excluded from perm	nit require	ements; s	ee		
				MARK					MARK	'X'		
	SPECIFIC QUESTIONS		YES	NO	FORM ATTACHED	SPECIFIC	QUESTIONS	YES	NO	FORM		
	ly a publicly owned treatment						either existing or proposed)	1		ATAON		
(FORM 2A)	ts in a discharge to waters of	the U.S.?		х			animal feeding operation or tion facility which results in		X			
			16	17	18	a discharge to waters of	of the U.S.? (FORM 2B)	19	20	21		
·	ality which currently results in d of the U.S. other than those des		x		х	and a second	i (other than those described vill result in a discharge to	x		х		
	re? (FORM 2C)				1000	waters of the U.S.? (FC		1,1983,1				
E. Does or will	this facility treat, store, or disp	ose of	22	23	24	F. Do you or will you inject	at this facility industrial or	25	26	27		
	wastes? (FORM 3)			X		municipal effluent below	the lowermost stratum con-		X			
			28	29	30	taining, within one quan underground sources of	er mile of the well bore, drinking water? (FORM 4)	31	32	33		
	vill you inject at this facility any					H. Do you or will you inject	at this facility fluids for special		52			
	ner fluids which are brought to t nection with conventional oil or			x			ng of sulfur by the Frasch of minerals, in situ combus-		x			
gas product	tion, inject fluids used for enha	nced		^		tion of fossil fuel, or reco	overy of geothermal energy?		^			
	oil or natural gas, or inject fluid iquid hydrocarbons? (FORM 4		34	35	36	(FORM 4)		37	38	39		
I. Is this facilit	ty a proposed stationary source	ce which is	- 34	- 35			stationary source which is	57	30	39		
	28 industrial categories listed in and which will potentially emit 1			x			trial categories listed in the ill potentially emit 250 tons		x			
	any air pollutant regulated und			^		per year of any air pollut	ant regulated under the Clean		^			
	ct and may affect or be located t area? (FORM 5)	l in an	10		40	Air Act and may affect o area? (FORM 5)	r be located in an attainment					
III. NAME OF F		10-36 St.3	40	41	42			43	44	45		
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15 16-29 30		NAME & TIT	LE (last	first. &	title)			area code	e & no.)			
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VII. SIC CODES (4-digit, in order of priority) A. FIRST	B SECOND
c (specify)	B. SECOND
7 4, 9, 1, 1 Electric Services	7
15 16 - 19	15 16 - 19
C. THIRD	D. FOURTH
c (specify)	c (specify)
7	7
15 16 - 19	15 16 - 19
VIII. OPERATOR INFORMATION	
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C. STATUS OF OPERATOR (Enter the appropriate letter into th	the answer box; if "Other", specify.) D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state)	(specify) c l l l l l l
S = STATE O = OTHER (specify)	F A 81 61 5 71 11 7 21
P = PRIVATE E. STREET OR P.O. BOX	56 15 16 - 18 19 - 21 22
714 SWAN BOND BD	
7, 1, 4, ,S,W,A,N, ,P,O,N,D, ,R,D, , , , , , , , , , , , , , , ,	
F. CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND
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BH,A,R,R,I,M,A,N,	T N 3, 7, 7, 4, 8 YES XNO
15 16	40 41 42 47 - 51 52
X. EXISTING ENVIRONMENTAL PERMITS	
	issions from Proposed Sources)
	A 4 0 1 Title V Air Permit
15 16 17 18 30 15 16 17 18	30
B. UIC (Underground Injection of Fluids) E.	OTHER (specify)
	(specify)
	1 7 3 - 0 0 9 4 Landfill Permit
	30 OTHER (specify)
	I I I I I I I I I (specify)
15 16 17 18 30 15 16 17 18	TMSP, See attachment for additional permits
XI. MAP	등 방법은 것은 것을 가지 않는 것을 해야 한 것을 수요? (Marcal Display New York, C. 2) 등 Sectore 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등
Attach to this application a topographic map of the area extending to at least on	e mile beyond property boundaries. The map must show the outline of the
facility, the location of each of its existing and proposed intake and discharge st	tructures, each of its hazardous waste treatment storage, or disposal
facilities, and each well where it injects fluids underground. Include all springs, for precise requirements.	rivers and other surface water bodies in the map area. See instructions
XII. NATURE OF BUSINESS (provide a brief description)	
Kingston Stream Plant is a fossil fueled, steam electric ge	enerating plant located near Kingston, Tennessee
on Watts Bar Reservoir at approximate Clinch River mile	2.5. The plant has nine coal fired units with a combined rated
generating capacity of 1,600 megawatts.	
	TN DEPT. OF ENV. & CONSERVATION
	TN DEPT. OF ENV. & COMP
	MAY 3 1 2017
	OWISION OF WATER RESOURCES
CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familia that, based on my inquiry of those persons immediately responsible for obtai	ining the information contained in the application. I believe that the
I certify under penalty of law that I have personally examined and am familia that, based on my inquiry of those persons immediately responsible for obtai information is true, accurate and complete. I am aware that there are signific	ining the information contained in the application. I believe that the
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A. NAME & OFFICIAL TITLE (type or print) B. Doug Keeling, Plant Manager TVA Kingston Fossil Plant COMMENTS FOR OFFICIAL USE ONLY C	ining the information contained in the application, I believe that the icant penalties for submitting false information, including the possibility of TURE

Form 1 - General Section X - Existing Environmental Permits

1. IDL 73-0211, Coal Combustion Byproduct Disposal Facility - Peninsula Site

2. TNR191557, Ball Field Closure and Flow Management Projects Construction Permit

3. TNR191259, Gypsum Disposal Area and Fly Ash Haul Road Construction Permit

4. TNR191509, Bottom Ash Dewatering Facility Construction Permit

5. NRS16.142 (Pending), Individual Permit to repair Eastern Dike Seepage

6. TNR135050, Stilling Pond Closure Construction Permit

7. NRS17.114 (Pending), General Permit for Construction of Outfall/Intake Structures

TN DEPT. OF ENV. & CONSERVATION

MAY 3 1 2017

DIVISION OF WATER RESOURCES

EPA I.D. NUMBER (copy from Item 1 of Form 1) TN8640006682

Form Approved OMB No. 2040-0086 F 10 4 100

ease print or	type in the unshaded					Approval e	expires 5/31/92					
FORM				APPLICA	Contraction of the second second		INMENTAL PROTECTION AGENCY	TER				
2C	EPA	EVIET							ATIONS			
NPDES		EXIST	ING MAT	UFACIU	KING, CC		CIAL, MINING AND SILVICULT	URAL OPER	ATIONS			
	L LOCATION	STATISTICS.	No. No. 191			Consolida			NIE STATE			
A. OUTFA		and longitur	de of its loca		earest 15 se		the name of the receiving water.					
NUMBER		LATTODE		6. 1	LUNGITUD	-	D. RECEIVING WA	IER (name)				
(list)	1. DEG.	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.						
001	35	54	15	84	30	15	Plant Intake (to Watts Bar Reserve	oir) via Outfall (002			
002	35	53	45	84	31	15	Watts Bar Reservoir					
004	35	53 54	45 0	84 84	31 30	15 0	Watts Bar Reservoir via Outfall 00		000			
006 01a	35	53	45	84	30	15	Plant Intake (to Watts Bar Reservoir) via Outfall 002 Watts Bar Reservoir via Outfall 002					
01a	35	53	30	84	30	45						
IMP 00		53	45	84	30	45	Watts Bar Reservoir (Emergency Only) Internal Discharge to FGD Storm Water Pond (Outfall 01					
IMP 00		54	15	84	30	45	Internal Discharge to Polishing		utian o raj			
11411 000	0 00		10				internal Discharge to Folishing	1 Ond				
. FLOWS	SOURCES, OF F	OLLUTION,	AND TREA	TMENT TEC	HNOLOGIE	ES						
							intake water, operations contributing w in Item B. Construct a water balance o		g by			
showir	ng average flows b	etween intak	kes, operatio	ons, treatment	t units, and	outfalls. If	a water balance cannot be determined	(e.g., for certain	1. See 48.			
							arces of water and any collection or trea o the effluent, including process wastew					
Foroa	ich outian, provide						by each operation; and (3) The treatment		е			
	water, cooling water	er, and storm	n water runo	ff; (2) The ave	erage flow c	contributed		in rootroa by th				
wastev wastev	water. Continue of	n additional s	sheets if neo	cessary.		contributed						
wastev wastev	water. Continue of 2.	operational s	sheets if nec DN(S) CONT		LOW		3. TREATM	ENT	DDES FRO			
wastev wastev 1. OUT- ALL NO (list)	water. Continue o 2. a.	n additional s OPERATIC OPERATIC	sheets if neo DN(S) CONT DN (list)	cessary.	b. AVERA	GE FLOW e units)	3. TREATM a. DESCRIPTION	ENT b. LIST CO	DDES FRO E 2C-1			
wastev wastev 1. OUT- FALL NO (list)	water. Continue o 2. a. Stilling Pond (F	operational s OPERATIC OPERATIC Polishing P	sheets if nec DN(S) CONT DN (list) Pond)	cessary. TRIBUTING F	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes:	ENT b. LIST CC TABL	E 2C-1			
wastev wastev 1. OUT- FALL NO (list)	water. Continue o 2. a. Stilling Pond (F The existing s	n additional s OPERATIC OPERATIC Polishing P stilling pone	sheets if nec DN(S) CONT DN (list) Pond) d provides	cessary. FRIBUTING F	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation	ENT b. LIST CC TABL	E 2C-1			
wastev wastev 1. OUT- FALL NO (list)	water. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro	operation operation operation Polishing P stilling pone area; how	sheets if ned DN(S) CONT DN (list) Pond) d provides wever, this	s pond	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation	ENT b. LIST CC TABL 2 1	E 2C-1 D G			
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wastev wastev 1. OUT- FALL NO (list)	xater. Continue o 2. a. Stilling Pond (F The existing s over a 24 acre will soon be c polishing pone construction a	Polishing P operation Polishing P stilling pone area; how losed and d which is and will hav	sheets if nec ON(S) CONT ON (<i>list</i>) Ond) d provides wever, this replaced currently ve an ope	s treatment by a new under erating	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface	ENT b. LIST CC TABL 2 1 1	E 2C-1 D G U			
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wastev wastev 1. OUT- ALL NO (list)	xater. Continue o 2. a. Stilling Pond (F The existing s over a 24 acre will soon be c polishing pone construction a	Polishing P operation Polishing P stilling pone area; how losed and d which is and will hav	sheets if nec ON(S) CONT ON (<i>list</i>) Ond) d provides wever, this replaced currently ve an ope	s treatment by a new under erating	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002.	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			
wastev wastev ALL NO (list) 001	water. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pond construction a surface area	Polishing P etilling pone area; how losed and d which is and will hav of approxim	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6	s treatment by a new under erating	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002. (6) Reuse of treated effluent	ENT b. LIST CC TABL 2 1 1 2 2	E 2C-1 D G U K			
wastev wastev ALL NO (list) 001	water. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pono construction a surface area Outfall 001 rec	Polishing P etilling pone area; how losed and d which is and will hav of approxim	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6	s treatment by a new under erating	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002.	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			
wastev wastev 1. OUT- ALL NO (list) 001	water. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pond construction a surface area	Polishing P etilling pone area; how losed and d which is and will hav of approxim	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6	s treatment by a new under erating	LOW b. AVERA (include 14.03	GE FLOW e units)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002. (6) Reuse of treated effluent	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			
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waster waster 1. OUT- FALL NO (list) 001	water. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pond construction a surface area o Outfall 001 rec following source (1) Coal yard (a) Coal st	eives flow es:	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6 from the ch include a drainag ea drainag	essary. FRIBUTING F s treatment s pond by a new under erating b acres. ess: e	LOW b. AVERA (include 14.03	MGD MGD MGD MGD MGD) MGD) 54 MGD)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002. (6) Reuse of treated effluent	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			
waster waster ALL NO (list) 001	water. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pond construction a surface area o Outfall 001 rec following source (1) Coal yard (a) Coal si (b) Utility to (c) Fire pro (2) Redwater of	n additional s OPERATIC OPERATIC Polishing P atilling pone area; how losed and d which is and will hav of approxim eives flow es: runoff whic torage are puilding are potection flu wetlands	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6 from the ch includes a drainag ea drainag	essary. TRIBUTING F s treatment s pond by a new under erating b acres. ess: e ge	LOW b. AVERA (include 14.03 0.14.03 0.145 (0.110 (0.035 (0.00006 0.171	MGD MGD MGD MGD MGD) MGD) S4 MGD) MGD	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002. (6) Reuse of treated effluent	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			
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waster waster ALL NO (list) 001	Avater. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pond construction a surface area outfall 001 rec following source (1) Coal yard (a) Coal st (b) Utility t (c) Fire pro (2) Redwater v (a) Comb (b) Precip	n additional s OPERATIC OPERATIC Polishing P stilling pond area; how losed and d which is and will hav of approxim eives flow es: runoff which torage are puilding are puildin	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6 from the ch includes a drainag ea drainag	essary. TRIBUTING F s treatment s pond by a new under erating b acres. ess: e ge	LOW b. AVERA (include 14.03 0.145 (0.110 (0.035 (0.00006 0.171 (0.170 (0.010	MGD MGD MGD MGD MGD MGD) MGD MGD MGD MGD MGD)	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002. (6) Reuse of treated effluent for cooling water	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			
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waster waster 1. OUT- ALL NO (list) 001	xater. Continue o 2. a. Stilling Pond (F The existing s over a 24 acro will soon be c polishing pon- construction a surface area o Outfall 001 rec following source (1) Coal yard (a) Coal si (b) Utility to (c) Fire pro- (2) Redwater o (a) Comb (b) Precip (c) Evapo	n additional s OPERATIC OPERATIC Polishing P atilling pone a area; how losed and d which is and will hav of approxim eives flow es: runoff whit torage are puilding are potection flu wetlands ustion Res itation cal metal c storage are	sheets if nec DN(S) CONT DN (list) Pond) d provides wever, this replaced currently ve an ope mately 6.6 from the ch includes a drainag ea drainag sidual Lea	cessary. FRIBUTING F s treatment s pond by a new under erating b acres. e ge achate	LOW b. AVERA (include 14.03 0.145 0.145 (0.110 (0.035 (0.0000 0.171 (0.170 (0.010 -(0.009 Negli 0.002	MGD MGD MGD MGD) MGD) MGD) MGD) MGD) MGD	3. TREATM a. DESCRIPTION Treatment for 001 includes: (1) Coagulation (2) Flocculation (3) Settling (4) Neutralization (5) Discharge to surface water via Plant Intake Channel via Outfall 002. (6) Reuse of treated effluent for cooling water Treatment occurs in a 4-acre constructed wetlands system;	ENT b. LIST CC TABL 2 1 1 2 4	E 2C-1 D G U K A			

TN DEPT. OF ENV. & CONSERVATION

Page 1a of 4 -

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

TN8640006682

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Form Approved OMB No. 2040-0086 Approval expires 5/31/92

FORM 2C NPDES	EPA		TING MA		TION FO	R PERMI	T TO DISCH	ARGE WASTE		S
		nd longitur	do of its los	ation to the n	areat 15 ac	aanda and t	he name of the	reaciving water		
A. OUTF	ALL B. L		de of its loc		LONGITUD		ine name of the	D. RECEIVING	NATER (name)	
NUMBE			1.							A. A.
(list)	1. DEG.	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.				1.5 19
				×						
II. FLOWS	S, SOURCES, OF POL th a line drawing showing ant, and treatment units	LUTION,	AND TREA	ATMENT TEC	HNOLOGIE	S ources of i	ntaka watar an	arations contributio	a wastewater to the	
show minin B. For e waste waste	ving average flows betwing activities), provide a each outfall, provide a cewater, cooling water, a ewater, cooling water, a ewater. Continue on a	ween intak a pictorial o description and storm dditional s	tes, operation description n of: (1) All water rund sheets if ne	ons, treatment of the nature a operations cou off; (2) The ave cessary.	t units, and and amount ntributing w erage flow c	outfalls. If a of any sour astewater to	water balance ces of water an the effluent, inc	cannot be determin d any collection or t cluding process was n; and (3) The treat	reatment measures. Itewater, sanitary ment received by the	
1. OUT- FALL NO				TRIBUTING F		GE FLOW	Den standing of the	3. TREA	TMENT b. LIST CODES F	DOM
(list)	a. 0	PERATIC				e units)	a	DESCRIPTION	TABLE 2C-1	ROM
001	(6) Water treatm	nent plar	nt wastes	s via	0.267	MGD				
(Con't.)	NLDF Sump	, which i	includes:							
	(a) RO Syste					MGD)				
	(b) RO Syste					MGD)				
	(7) Drainage from					MGD				
	includes: slui	and the second se	the second s	the second se						
	area drainage		the second s		7 740	MOD				
	(8) Station sump					MGD MGD)				
	(a) Ash syste bottom overf				(4.155	(MGD)				
	bearing cooli			5 ID Iall						
	(b) Miscellan			cooling	(3 4 3 8	MGD)				
	and lubrication				(5					
	(c) Fire prote				(0.0000	34 MGD)				
	(d) Floor Wa	shing a	nd other	low	(0.025	MGD)				
	volume wast	tes								
	(e) Roof drai		precipitat	or	(0.018	MGD)				
	(e) Roof drai washdown	ins and p		or						
	(e) Roof drai washdown (f) Boiler wat	ins and p ter leaka	ige		(0.061	MGD)				
	(e) Roof drai washdown (f) Boiler wat (g) Analytica	ins and p ter leaka l proces	age s wastew	vater	(0.061	MGD) MGD)				
	(e) Roof drai washdown (f) Boiler wat (g) Analytica (h) Basemer	ins and p ter leaka I proces nt boiler	age s wastew	vater	(0.061	MGD)				
	(e) Roof drai washdown (f) Boiler wat (g) Analytica (h) Basemer (start up	ins and p ter leaka I proces nt boiler only)	age s wastew blowdow	vater	(0.061 (0.005 Negl	MGD) MGD) igible				
	(e) Roof drai washdown (f) Boiler wat (g) Analytica (h) Basemer	ter leaka I proces Int boiler only) ole statio	age s wastew blowdow	vater n tank	(0.061 (0.005 Negl (0.010	MGD) MGD)				

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Form Approved OMB No. 2040-0086 Approval expires 5/31/92

FORM 2C NPDES	EPA	EXIS	TING MA		TION FO		IT TO DISC	OTECTION AGENCY HARGE WASTEW G AND SILVICULT		
I. OUTFA	LL LOCATION									
A. OUTF	ALL IST THE LATITU	de and longitu B. LATITUDI	ude of its loc		LONGITUD		the name of the	e receiving water. D. RECEIVING WA	TER (name)	
NUMBE		J. LAMOD			LONGITOD			D. RECEIVING W	ATER (name)	
(list)	1. DEG.	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.				
		_								
			ļ							
		DOLLUTION					C. Contractory			
A. Attac	S, SOURCES, OF	nowing the wa	ater flow thr	ough the facil	ity. Indicate	sources of	intake water.	perations contributing w	astewater to th	e
minin B. For e waste	ng activities), provid each outfall, provid ewater, cooling wa ewater. Continue	de a pictorial e a descriptio ter, and storn on additional	description on of: (1) All n water rund sheets if ne	of the nature operations co off; (2) The av cessary.	and amount ontributing w erage flow o	t of any sou astewater t	o the effluent, i	e cannot be determined ind any collection or trea ncluding process waster ion; and (3) The treatme	atment measure water, sanitary ent received by	S.
FALL NO		a. OPERATI		TRIBUTING		GE FLOW		3. TREATM		CODES FROM
(list)		a. OF ERATI	on (iist)		and the second second second	e units)	a.	DESCRIPTION		BLE 2C-1
001	(10) Storm wa	ater runoff f	from FGD	area	0.020	MGD				
(Con't.)	sump									
	(11) AAF area	sump, inc	luding		0.012	MGD				
	precipitat	or wash an	id raw wat	ter						
	leakage									
	(12) Chemical Meta		tewaters (IMP	005)	0.200	MGD				
	(13) Precipitat	the second distance of				MGD				
	(14) Less eva					B MGD				
002	Condenser co	and the second se		and the second se	999.14	4 MGD	Discharge	to surface water	4	A
	channel. Outfa			A REAL PROPERTY AND A REAL						
	(1) Once-thr				997.00	6 MGD				
	the second	luding flow		utfall 001.		1100				
		Boiler blow		- de		MGD				
	(3) Discharg				0.010	MGD				
		fire protec								+
		r leakage,								
	And the second se	And the owner of the owner owner	And the second se	nd switchya	the second s	MOD			_	
		reen backv)4 and FGI			0.252	MGD				
	(5) Discharge				1 605	MGD			_	
	pond (Ou	and the second	Storm Wa	alei	1.005	NGD				+
	(6) Discharge		all 006		0.202	MGD				
	(o) Discharge	, nom Outi			0.203	MOD				
Sec. 1										+
OFFICIAL I	USE ONLY (efflue	nt guidelines	sub-catego	ries)	Shitter .	12 1970-				
			tol and a set					the second and the	and the second second	

TN DEPT. OF ENV. & CONSERVATION

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

TN8640006682

Form Approved OMB No. 2040-0086

FORM 2C	EPA	EXIS	TING MA		TION FO	R PERM	INMENTAL PROTECTION AGENCY IT TO DISCHARGE WASTEWAT	ER	ATIONS
NPDES				and the second		Consolida	ted Permits Program		
	LL LOCATION	and longitu	ide of its loc	ation to the n	earest 15 se	conds and	the name of the receiving water.		
A. OUTFA	ALL B.	LATITUDE		C.	LONGITUD	E	D. RECEIVING WATE	R (name)	and the second s
NUMBE (list)	R 1. DEG.	2. MIN	3. SEC.	1. DEG.		1.050			
(1131)	T. DEG.	Z. MITN	J. JEU.	T. DEG.	2. MIN.	3. SEC.			
		1							
					1				
II. FLOWS	, SOURCES, OF P	OLLUTION	, AND TRE	ATMENT TEC	HNOLOGIE	S	intake water, operations contributing wast		
showi mining B. For ea waste	ing average flows b g activities) , provid ach outfall, provide	etween inta e a pictorial a descriptio er, and storn	kes, operation description n of: (1) All n water rund	ons, treatmen of the nature operations co off; (2) The av	t units, and and amount ntributing w	outfalls. If a of any sou	In Item B. Construct a water balance on the a water balance cannot be determined (e.g. rces of water and any collection or treatment of the effluent, including process wastewater by each operation; and (3) The treatment r	n, for certain nt measures r, sanitary	
1. OUT-				TRIBUTING	FLOW		3. TREATMEN	т	
FALL NO (list)	a.	OPERATI	ON (list)			GE FLOW e units)	a. DESCRIPTION		ODES FROM
004	Intake screen b	ackwash	(raw rive	r water)		MGD	Discharge to surface water	4	A
		00000000000	(iuw nvci	watery	0.202	mod			
006	Electrical contr	ol building	air condi	tioning	0.203	MGD	Discharge to surface water	4	A
	condensate, fin	e protectio	on flushes	and					
	leakage to which	ch no che	micals ha	ve been					
~	added.								
01a	FGD storm wat	ter pond v	which rece	eives flow	1.605	MGD	Treatment occurs in a 6.87 acre		*
	from:				(estimated	d max flow	pond providing:		
					based of	n design)	(1) Coagulation	2	D
							(2) Flocculation	1	G
							(3) Settling	1	U
							(4) Neutralization	2	K
	(4) 505 5			Daac	10.000	1105	(5) Discharge to Surface Water	4	A
	(1) FGD Dewat					MGD)			
	(2) Leachate and the day FOD h		and a second		(0.064	MGD)			
	the dry FGD, b			asn					
	Peninsula Disp (3) Precipitation	a design of the second s	l.		(0.022	MGD)			
	(4) Evaporation					MGD)			
		l.			(-0.010				
					<u> </u>				

TN DEPT. OF ENV. & CONSERVATION

MAY 3 1 2017

Disconneint or time in the uncheded a

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

TN8640006682

Please print or type in the unshaded areas only

Form Approved OMB No. 2040-0086 Approval expires 5/31/92

FORM 2C NPDES	EPA	EXIS	TING MA		TION FO	R PERMI	IT TO DISCHARGE WASTEWATE	R	ATIONS
I. OUTFA	LL LOCATION	and longitu	ide of its los	ation to the p	paraet 15 cr	conde and	the name of the receiving water.		
A. OUTF	ALL B.			C.	LONGITUD	E	D. RECEIVING WATER	R (name)	
NUMBE	R							- ()	
(list)	1. DEG.	2. MIN	3. SEC.	1. DEG.	2. MIN.	3. SEC.			
_									
IL ELOWO			AND TOP	THENTTE					
A. Attac	, SOURCES, OF P	out of the wa	ter flow thr	ough the facili	ty. Indicate	sources of	intake water, operations contributing waste	water to the	
waste	water, cooling wate water. Continue or	er, and storn n additional	n water rund sheets if ne	ff; (2) The ave	erage flow o		b the effluent, including process wastewate by each operation; and (3) The treatment re 3. TREATMEN	eceived by th	e
FALL NO (list)		OPERATI				GE FLOW e units)	a. DESCRIPTION	b. LIST C	ODES FROM E 2C-1
01b	Emergency over	erflow poin	nt for FGE) Storm	0 N	IGD	Discharge to surface water	4	A
	Water Pond. (N			le in					
	response to a p		naximum						
	precipitation ev								
IMP 009	FGD Dewaterin	ng Facility			0.923	MGD	Treatment occurs in the FGD		
							Dewatering Facility prior to		
							discharge in to FGD storm water		
							pond:		
							(1) Centrifugation	5	D
							(2) Belt Filtration	5	С
							(3) Vacuum Filtration	5	U
							(4) Coagulation	2	D
							(5) Flocculation	1	G
							(6) Settling	1	U
							(7) Neutratlization	2	К
IMP 005	Chemical meta	l cleaning	wastewa	ters which	0.200	MGD	Treatment occurs in mobile unit		
	are collected in						or frac tanks:		
	frac tanks and						(1) Neutralization	2	К
	discharge to the						(2) Mixing	1	0
							(4) Chemical precipitation	2	C
							(5) Settling	1	U
							a second a second s		1
OFFICIAL L	JSE ONLY (effluen	t guidelines	sub-catego	ries)					

TN DEPT. OF ENV. & CONSERVATION

	YES (complete the following			Although and and and	Diff Hand	in white	NO (go to Sec	ction III)
		3. FREQ				4. FLOW	the same of the	
OUTFALL	1 ODERATION/-1	a. DAYS	b. MONTHS	a. FLOW RAT	E		VOLUME	c. DURATIO
NUMBER	2. OPERATION(s) CONTRIBUTING FLOW	PER WEEK (specify	PER YEAR (specify	(in mgd) 1. LONG TERM 2. M	MUMIXAN	1. LONG TERM	2. MAXIMUM	(in days)
(list)	(list)	average)	average)	and the second sec	DAILY	AVERAGE	DAILY	
MP 009	FGD Dewatering Facility	5-7	12		.846	ALLANDE	DAILT	
	r ob bonatoning r dointy	and the second second second		and the second			too E 7 do	
				Dewatering Fa				
				ours per day. T				
				esign flows. The				
		operation ar	nd the daily	maxium flow is	based	on 24 hour	operation.	During off pe
		load season	is such as	spring and fall, I	KIF may	go into "N	ot in Dema	and" status ar
		the plant ma	ay be offline	e for longer dura	ations of	time. On	the other h	and, during
		peak load se	easons suc	ch as late summ	er and v	winter the C	GDF may o	perate more
							,	
MP 005	Chemical Metal Cleaning	1-2	1	~(0.200			
	chemical metal cleaning	12			5.200			
		Chemical	metal clea	ining wastewate	ers are in	nfrequently	generated	as a result o
		chemical wa	ashes of th	e boiler or other	r compo	nents. The	ese washe	s are perform
		1		ely once every 1				
		~		,	- /		3 04	
PRODUCTIC				and all the second				A LADOR AND
Does an er	fluent guideline limitation promulgated	by EPA under Se	ection 304 of t	the Clean Water Ac	t apply to	your facility?		
	X YES (complete Item III-B)	and the second	S. A. S. S. S. B.		-	-	NO (go to Sec	tion IV)
Are the lim	itations in the applicable effluent guide	eline expressed in	terms of proc	fuction (or other me	asure of c	operation)?		
	YES (complete Item III-C)		110000				NO (go to Sec	
and units u	vered "yes" to Item III-B, list the quanti used in the applicable effluent guidelin	ty which represen	ts an actual n	neasurement of you	ir level of	production, e	xpressed in th	he terms
and units c		ERAGE DAILY PRO		iano.			2	AFFECTED
a. QUANTIT			. OPERATION	, PRODUCT, MATER	IAL, ETC.		and the local state of the local state of the second state of the	UTFALLS
				Sector and a			(list o	which it many harman
15,000				(specify)	State of the second	And Internet and Annual Property in the local division of the loca	India	utfall numbers)
				(specity)			Incre	uttali humbers)
				(specity)			(not o	uttaii humbers)
				(specity)			1.000	uttaii numbers)
				(specity)				uttaii humoers)
				(specity)			,	uaaii humbers)
				(specity)				uaaii humbers)
				(specity)				uaaii humbers)
	ENTE			(specity)				uttali humbers)
		cal authority to m	eet anv imple		a for the c	onstruction		
Are you no	w required by any Federal, State or lo			mentation schedule			pgrading or c	operation
Are you no of wastew	ow required by any Federal, State or lo ater treatment equipment or practices	or any other envir	ronmental pro	mentation schedule	affect the	discharges de	pgrading or c	operation
Are you no of wastew application	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to,	or any other envir permit conditions	ronmental pro	mentation schedule	affect the	discharges de	pgrading or c	operation
Are you no of wastew application	ow required by any Federal, State or lo ater treatment equipment or practices	or any other envir permit conditions pan conditions.	ronmental pro , administrativ	mentation schedule ograms which may a ve or enforcement c	affect the	discharges de forcement cor	pgrading or c escribed in th mpliance sch	operation is edule
of wastew application	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to,	or any other envir permit conditions pan conditions.	ronmental pro , administrativ	mentation schedule	affect the	discharges de	pgrading or c	operation is edule
Are you no of wastew application	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to,	or any other envir permit conditions pan conditions.	ronmental pro , administrativ	mentation schedule ograms which may a ve or enforcement c	affect the	discharges de forcement cor	pgrading or c escribed in th mpliance sch	operation is edule n IV-B)
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Are you no of wastew application letters, sti 1. IDEN	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to, pulations, court orders, and grant or lo	or any other envir permit conditions ban conditions.	ronmental pro , administrativ YES (complete to TFALLS	ementation schedule ograms which may a ve or enforcement o the following table)	affect the orders, en	discharges de forcement con	pgrading or c escribed in thi mpliance sch NO (go to Iten	operation is edule n IV-B) 4. FINAL CO
Are you no of wastew application letters, sti 1. IDEN	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to, pulations, court orders, and grant or lo TIFICATION OF CONDITION,	or any other envir permit conditions oan conditions.	ronmental pro , administrativ YES (complete to TFALLS	ementation schedule ograms which may a ve or enforcement o the following table)	affect the orders, en	discharges de forcement con	pgrading or c escribed in thi mpliance sch NO (go to Iten	operation is edule n IV-B) 4. FINAL CO PLIANCE DA
Are you no of wastew application letters, sti 1. IDEN	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to, pulations, court orders, and grant or lo TIFICATION OF CONDITION,	or any other envir permit conditions oan conditions.	ronmental pro , administrativ YES (complete to TFALLS	ementation schedule ograms which may a ve or enforcement o the following table)	affect the orders, en	discharges de forcement con	pgrading or c escribed in thi mpliance sch NO (go to Iten	operation is edule n IV-B) 4. FINAL CO PLIANCE DA a. RE- D. P.
Are you no of wastew application letters, sti 1. IDEN	w required by any Federal, State or lo ater treatment equipment or practices n? This includes, but is not limited to, pulations, court orders, and grant or lo TIFICATION OF CONDITION,	or any other envir permit conditions oan conditions.	ronmental pro , administrativ YES (complete to TFALLS	ementation schedule ograms which may a ve or enforcement o the following table)	affect the orders, en	discharges de forcement con	pgrading or c escribed in thi mpliance sch NO (go to Iten	operation is edule n IV-B) 4. FINAL CO PLIANCE DA a. RE- D. P.
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Are you no of wastew application letters, sti 1. IDEN	TIFICATION OF CONDITION, AGREEMENT, ETC.	or any other envir permit conditions.	ronmental pro , administrativ /ES (complete to ITFALLS DISCHARGE	ementation schedule ograms which may a ve or enforcement o the following table) 3. BRIEF	DESCRIP	discharges de forcement con	Pgrading or c escribed in thi mpliance schi NO (go to Item ECT	pperation is edule <i>n IV-B)</i> 4. FINAL CO PLIANCE DA a. RE- QUIRED JEC
Are you no of wastew application letters, sti 1. IDEN	AGREEMENT, ETC.	escribing any add	ronmental pro , administrativ (FES (complete to TFALLS DISCHARGE	ementation schedule ograms which may a ve or enforcement o the following table) 3. BRIEF	DESCRIP	discharges de forcement con	NO (go to Item ECT	operation is edule 4. FINAL CO PLIANCE DA a. RE- DUIRED JEC QUIRED JEC
Are you no of wastew application letters, sti 1. IDEN OPTIONAL may affect y	TIFICATION OF CONDITION, AGREEMENT, ETC.	escribing any add way or which you j	ronmental pro , administrativ (FES (complete to TFALLS DISCHARGE	ementation schedule ograms which may a ve or enforcement o the following table) 3. BRIEF	DESCRIP	discharges de forcement con	NO (go to Item ECT	operation is edule 4. FINAL CO PLIANCE DA a. RE- DUIRED JEC QUIRED JEC

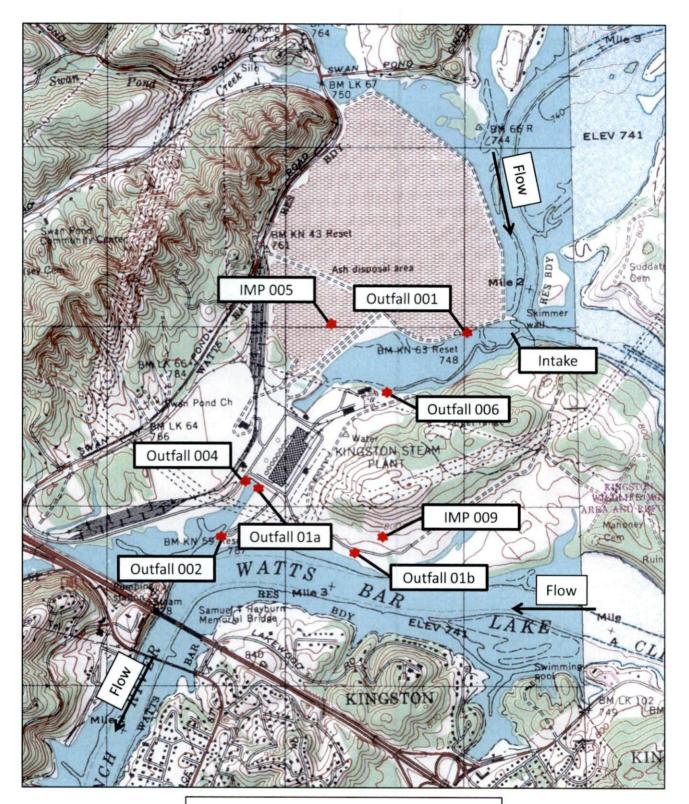
Page 2 of 4

TN DEPT. OF ENV. & CONSERVATION

CONTINUED FROM PAGE 2 V. INTAKE AND EFFLUENT CH	TN8640006682		
	ore proceeding - Complete one set of tables for eac V-B, and V-C are included on separate sheets num		in the space provided.
	ny of the pollutants listed in Table 2C-3 of the instruged from any outfall. For every pollutant you list, brin your possession.		
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Vanadium pentoxide	Selective catalytic reduction (SCR) for NOx air emissions control uses this material as a catalyst.		
1. POTENTIAL DISCHARGES N			
Is any pollutant listed in Item V-C	YES (list all such pollutants below)		an intermediate or final IO (go to Item VI-B)
Is any pollutant listed in Item V-C	C a substance or a component of a substance which		
	C a substance or a component of a substance which		
Is any pollutant listed in Item V-C	C a substance or a component of a substance which		
Is any pollutant listed in Item V-C	C a substance or a component of a substance which	TN DEPT. O	IO (go to Item VI-B)

	scharge within the last 3 years?		
X YES (identify	the test(s) and describe their purposes belo	w)	NO (go to Section VIII)
Foxicity testing is conducted on ef	fluent from Outfall 002 on an annua	al basis in accordance	with Part III of TN0005452 Toxic
est reports have been submitted t	to the State with the associated dise	charge monitoring rep	orts.
III. CONTRACT ANALYSIS INFORMATI	ON		
	NV performed by a contract laboratory or co	onsulting firm?	
X YES (list the r	name, address, and telephone number of, a	nd pollutants	NO (go to Section IX)
A. NAME	by, each such laboratory or firm below) B. ADDRESS	C. TELEPHONE	
	B. ADDRESS	(area code & no.)	D. POLLUTANTS ANALYZED (list)
TestAmerica Laboratories Inc	2960 Foster Creighton Drive	615-726-0177	All parameters except pH, tot
TestAmerica Laboratories, Inc.	2960 Foster Creighton Drive Nashville, TN 37204	615-726-0177	
TestAmerica Laboratories, Inc.	-	615-726-0177	
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
TestAmerica Laboratories, Inc.	-	615-726-0177	residual chlorine, temperature
	-	615-726-0177	residual chlorine, temperature
C. CERTIFICATION	Nashville, TN 37204		residual chlorine, temperature sulfite and flow.
K. CERTIFICATION	Nashville, TN 37204 ument and all attachments were prepared u	nder my direction or superv	residual chlorine, temperature sulfite and flow.
K. CERTIFICATION I certify under penalty of law that this doc designed to assure that qualified persons who manage the system or those persons	Nashville, TN 37204 ument and all attachments were prepared u el properly gather and evaluate the informa s directly responsible for gathering the inform	inder my direction or supervition submitted. Based on mation, the information sub-	residual chlorine, temperature sulfite and flow.
K. CERTIFICATION I certify under penalty of law that this doc designed to assure that qualified personn who manage the system or those persons knowledge and belief, true, accurate, and	Nashville, TN 37204 ument and all attachments were prepared u el properly gather and evaluate the informa s directly responsible for gathering the inform complete. I am aware that there are signif	inder my direction or supervition submitted. Based on mation, the information sub-	residual chlorine, temperature sulfite and flow.
K. CERTIFICATION I certify under penalty of law that this doc designed to assure that qualified persons who manage the system or those persons	Nashville, TN 37204 ument and all attachments were prepared u el properly gather and evaluate the informa s directly responsible for gathering the inform complete. I am aware that there are signif owing violations.	inder my direction or superv tion submitted. Based on m mation, the information sub- icant penalties for submittin	residual chlorine, temperature sulfite and flow.
K. CERTIFICATION I certify under penalty of law that this doc designed to assure that qualified persons who manage the system or those persons knowledge and belief, true, accurate, and possibility of fine and imprisonment for kn	Nashville, TN 37204 ument and all attachments were prepared u el properly gather and evaluate the informa s directly responsible for gathering the inform complete. I am aware that there are signif owing violations.	inder my direction or superv tion submitted. Based on m mation, the information sub- icant penalties for submittin	residual chlorine, temperature sulfite and flow.
K. CERTIFICATION I certify under penalty of law that this doc designed to assure that qualified personn who manage the system or those persons knowledge and belief, true, accurate, and possibility of fine and imprisonment for kn A. NAME & OFFICIAL TITLE (type or put	Nashville, TN 37204 ument and all attachments were prepared u el properly gather and evaluate the informa s directly responsible for gathering the inform complete. I am aware that there are signif owing violations.	inder my direction or supervition submitted. Based on n mation, the information sub- icant penalties for submittin B. PHONE 865-717-23	residual chlorine, temperature sulfite and flow.
K. CERTIFICATION I certify under penalty of law that this doc designed to assure that qualified personn who manage the system or those persons knowledge and belief, true, accurate, and possibility of fine and imprisonment for kn A. NAME & OFFICIAL TITLE (type or put B. Doug Keeling, Plant Manager	Nashville, TN 37204 ument and all attachments were prepared u el properly gather and evaluate the informa s directly responsible for gathering the inform complete. I am aware that there are signif owing violations.	Inder my direction or supervision submitted. Based on mation, the information submitted icant penalties for submittin B. PHONE 865-717-24 D. DATE SI	vision in accordance with a system my inquiry of the person or persons mitted is, to the best of my ng false information, including the NO. (area code & no.) 500

TN DEPT. OF ENV. & CONSERVATION

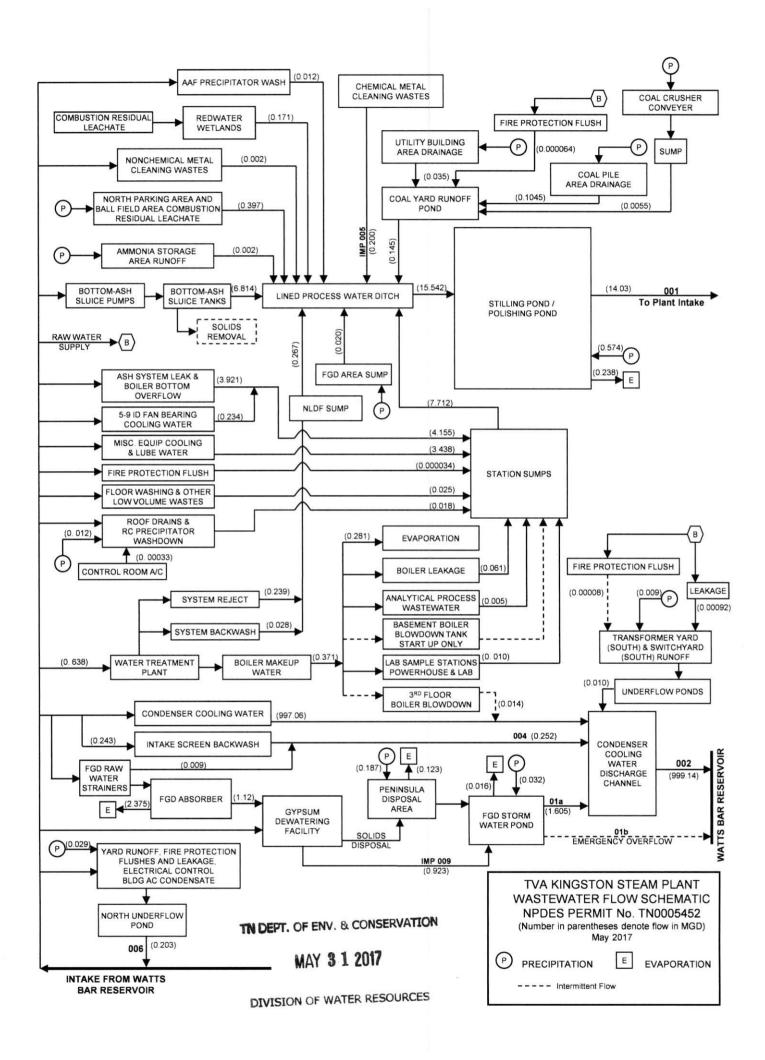


Tennessee Valley Authority Kingston Fossil Plant NPDES Permit No. TN0005452 Roane County, Tennessee

TN DEPT. OF ENV. & CONSERVATION

MAY 3 1 2017

DIVISION OF WATER RESOURCES



PLEASE PRINT Of this information or SEE INSTRUCTION	n sepa				server see the permit server of a proces	port some or all of eting these pages.		EPA I.I	D. NUMBER		rom Item 1 6400066)				
V. INTAKE AND E	EFFLU	ENT CHAP	RACTER	RISTICS (continu	ed from page 3 c	of Form 2-C)										OU	IMP 005
PART A - You mu	st prov	vide the res	ults of a	at least one analy	sis for every pollu	utant in this table. Co		for each o	outfall. See i	instructio	ons for add	litional det	ails.				Sugara and
1. POLLUTANT		a. M/	XIMUM	DAILY VALUE	b. MAXI	2. EFFLUEN MUM 30 DAY VALUE (if available)		G TERM AN	VRG. VALUE		d. NO. OF		3. UNITS (specify if blan	k)	4. I a. LONG AVERAGI		b. NO. OF
Sec. Sec.		(1) CONCENT		(2) MASS	(1) CONCENTRA	(2) MASS	(1) CONCENTR		(2) MASS		NALYSES	A COMPANY OF A COM	NCEN-	D. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD) b. Chemical Oxygen Demand										_			,				
(COD) c. Total Organic Carbon (TOC)								+									
d. Total Suspende Solids (TSS)	be																
e. Ammonia <i>(as</i> N	0																
f. Flow			0.2	200*				0.200)*				MGD				
g. Temperature (winter)																	
h. Temperature (summer)																	
I. pH		MINIMUM		MAXIMUM	MINIMUM	MAXIMUM		>				STA	NDARD U	NITS		><	
PART B -	eithe	r directly, o	r indirec	tly but expressly,	, in an effluent lim	ve reason to believe itations guideline, yo	u must provide th	e results o	of at least on	e analys	sis for that	pollutant.	For other pollu	itants for wh	nich you mark colun		ited
		de quantita MARK 'X'	tive dat	a or an explanati	on of their preser	nce in your discharge 3.	EFFLUENT	able for ea	ach outrall.	See the	Instruction	s for addit		In requirements		INTAKE (option	al)
1. POLLUT-	a. E	BE- b. BE	Sec. 24 - 19, 49, 19, 19	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM :	BO DAY VALUE	C.	LONG TERM		ALUE	Sugar-sy/		Genileus a	a, l	LONG TERM	a and Barrell
ANT AND CAS NO. (if available)	LIEVE PR SEI	E- AB-		(1) NCENTRATION	(2) MASS	(if ava (1) CONCENTRATION	ilable) (2) MASS	CONCE	(if avai (1) ENTRATION		MASS	d. NO. OF ANAL- YSES	a CONCEN- TRATION	b. MASS	G AVE (1) CONCENTRATI	CON CON CONCEPTION CON CONCEPTION CONCEPTICONCEPTICON CONCEPTICONCEPTICONCE CONCEPTICONC	b. NO. OF ANAL- YSES
a. Bromide (24959-67-9)																	
b. Chlorine, Total Residual										DIV		R.				1	
c. Color			1							VISIO		DEPT.					
d. Fecal Coliform							(#)			OF	MAY	OF EN					
e. Fluoride (16984-48-8)										WATER	31	VV. & (
f. Nitrate- Nitrite <i>(as N)</i>										RESC	2017	CONSE					
*Flows estir EPA Form			d on	typical volu	ume of a ch	nemical boile	r wash.	Page	• V-1	URCES		RVATION				CONTINUE O	N PAGE V-2

9.981

ITEM V-B CONT	and the second sec	ARK 'X'	and the second second	States and a		FFLUENT	Strength William State of Carlier	Mar - L. M.		4. UN	ITS	5. INT/	AKE (optional)	Marine 1
1. POLLUT- ANT AND	a. BE- LIEVED	b. BE- LIEVED	a. MAXIMUM DAII	LY VALUE	b. MAXIMUM 30 D (if availab	DAY VALUE	c. LONG TERM AV (if availab		d. NO. OF	a, CONCEN-	b. MASS	a. LONG TE AVERAGE VA	RM	b. NO. OF
CAS NO.	PRE-	AB-	(1)	(2) MASS	(1)	(2) MASS	(1)	(2) MASS	ANAL-	TRATION	D. MASS	(1)	(2) MASS	ANAL- YSES
(if available) g. Nitrogen, Total Organic	SENT	SENT	CONCENTRATION		CONCENTRATION		CONCENTRATION		YSES			CONCENTRATION		
as N) . Oil and		+		1										
Grease														
I. Phosphorus (as P), Total (7723-14-0)									1					
. Radioactivity	And Andrew	and the second	and the second	and a second	all and a state of the		and the second	Sales Parks	1004#15000		a la serie			Part and a state
(1) Alpha, Total														
(2) Beta, Total														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfate (as SO₄)														
(14808-79-8)														
l. Sulfide (as S)														
m Sulfite														
(as SO₄) (14265-45-3)														
n. Surfactants														
o. Aluminum, Total														
(7429-90-5)														
p. Barium, Total (7440-39-3)														
q. Boron,														
Total (7440-42-8)	14													
r. Cobalt, Total (7440-48-4)														
s. Iron,Total (7439-89-6)			2.4	DIV	TN DEPT.		< 0.398		18	mg/L				
. Magnesium,				ISI	ų									
Total (7439-95-4)				NOISI	See See S									
u. Molybdenum, Total (7439-98-7)				OF	OF ENV.									
v. Manganese,				WATER	· · ·									
Total (7439-96-5)				ER 2										
(7439-96-5) w. Tin, Total (7440-31-5)				R RESO	& CONSERVAT									
k. Titanium,				UR	RV									
Total 7440-32-6)				URCE	ATT									

Data provided are from historical discharges from the metal cleaning bonds from 2006-2008. There have not been discharges of chemical metal cleaning waste since pond closure in 2009.

CONTINUED FROM	DAGE 3		12-0				N8640006	682		IMP 00	5				
PART C - If you such 2a fo know the re colun	are a prin GC/MS fra equired GC r any pollu r or have re esults of al nn 2b, you	nary indus actions th C/MS frac tant, you eason to l least one must eith	stry and th at apply to tions), m must prov believe it v e analysis her submil	b your industry and for lark "X" in column 2-b t ride the results of at lea will be discharged in co for each of these pollu	ALL toxic me for each polle ast one analy pricentrations itants which or briefly des	etals, cyanides, and utant you know or ha visis for that pollutani of 10 ppb or greate you know or have re cribe the reasons th	total phenols. ave reason to b t. If you mark o er. If you mark ason to believe te pollutant is e	uctions to determine w If you are not required elieve is present. Mark column 2b for any pollut column 2b for acrolein, e that you discharge in xpected to be discharg ts.	to mark colu "X" in colum tant, you mus acrylonitrile, concentration	mn 2-a (sea nn 2-c for e st provide th 2,4 dinitrop ns of 100 pp	condary indust ach pollutant y he results of all ohenol, or 2-m ob or greater.	tries, nonpro rou believe is least one a ethyl-4, 6 din Otherwise f	ocess wastewate s absent. If you nalysis for that p nitrophenol, you or pollutants for	er outfalls, an mark column pollutant if you must provide which you ma	
1. POLLUTANT AND CAS		MARK		a. MAXIMUM DAIL		3. EFFL b. MAXIMUM 30	UENT	NT		1	4. UI		5. INTAKE (option a. LONG TERM		b. NO. C
NUMBER (if available)	ING RE-	PRE-	LIEVED AB-	(1)	(2) MASS	(if availa (1)	(2) MASS	(if available (1)) (2) MASS	d. NO. OF ANAL-	a. CONCEN- TRATION	b. MASS	AVERAGE (1) CONCEN- TRATION	E VALUE (2) MASS	ANAL- YSES
TALS, CYANIDE	QUIRED		SENT	CONCENTRATION		CONCENTRATION		CONCENTRATION	Action	YSES	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100		TRATION		1.00
1M. Antimony, Total (7440-36-0)	AND TO		NULS												
2M. Arsenic, Total (7440-38-2)									-						
3M. Beryllium, Total, (7440-41-7)															
4M. Cadmium, Total (7440-43-9)															
5M. Chromium, Total (7440-47-3)															
6M. Copper, Total (7440-50-8)				0.24				< 0.0378		18	mg/L				
7M. Lead, Total (7439-92-1)															
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)			2				and a								
10M. Selenium, Total (7782-49-2)						DIVISION	N DE								
11M. Silver, Total (7440-22-4)						M	PT. 0								
12M. Thallium, Total (7440-28-0)						MAY 3	FENV								
13M. Zinc, Total (7440-66-6)						312 WATER	8 C(
14M. Cyanide, Fotal (57-12-5)						2017 R RESOURCE	ONSE								
15M. Phenols, Total						URCE	TAV								
DIOXIN		S. Produces	Les Print	the second	-1		Q	San States and States of		S. Marker	AND A REAL	Section 1993	a Postali		1. 2 C
2,3,7,8-Tetra- chlorodibenzo-P Dioxin (1764-01-6)				DESCRIBE RESULT	S		~								

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

Data provided are from historical discharges from the metal cleaning ponds from 2006-2008. There have not been discharges of chemical metal cleaning waste since pond closure in 2009.

CONTINUED FROM F				_									UITO		TAVE	
1. POLLUTANT AND CAS		b. BE-	C. BE-	a. N		LY VALUE	3. EFFLUE b. MAXIMUM 30 DA		C. LONG TERM AVR	G. VALUE	1	4. U		a. LONG	TAKE (option	b. NO. OF
NUMBER (if available)	ING RE-	LIEVED PRE-	LIEVED AB-		(1)	(2) MASS	(if available (1)		(if available) (1)		d. NO. OF ANAL-	a. CONCEN- TRATION	b. MASS	AVERAG	E VALUE	ANAL- YSES
The of the second	QUIRED	SENT	SENT	CONC	CENTRATION	(2) MAGG	CONCENTRATION	(2) 1000	CONCENTRATION	(2) 10/00	YSES	INATION		TRATION	(2) 10/00	TOLO
GC/MS FRACTION - V 1V. Acrolein	VOLATILI	E COMPO	UNDS	and a start of		Martine Martine	and the second	my - gate		State of States	1-19/0-19/20	and the se	A La Alta	Store Store 12 Parts	ALCONT DOLL	119 2422
(107-02-8)																
2V. Acrylonitrile (107-13-1)																
3V. Benzene (71-43-2)																
4V. Bis (Chloro- methyl) Ether (542-88-1)																
5V. Bromoform (75-25-2)																
6V. Carbon Tetrachloride (56-23-5)																
7V. Chlorobenzene (108-90-7)																
8V. Chlorodi- bromomethane																
(124-48-1) 9V. Chloroethane (75-00-3)																
10V. 2-Chloro- ethylvinyl Ether (110-75-8)																
11V. Chloroform (67-66-3)																
12V. Dichloro- bromomethane (75-27-4)																
13V. Dichloro- difluoromethane (75-71-8)																
14V. 1,1-Dichloro- ethane (75-34-3)																
15V. 1,2-Dichloro- ethane (107-06-2)						3										
16V. 1,1-Dichloro- ethylene (75-35-4)				NOISIN		DEP										
17V. 1,2-Dichloro- propane (78-87-5)				ON O	MAY	0										
18V. 1,3-Dichloro- propylene (542-75-6)				×.	8	ENV										
19V. Ethylbenzene (100-41-4)				ER RE	2017	CON										
20V. Methyl Bromide (74-83-9)				ATER RESOURCES	~	CONSERVATION										
21V. Methyl Chloride (74-87-3)				CES		TIO										

CONTINUED EDOM DAGE V 3

CONTINUED FROM P	AGE V-A					EPA I.D. NUMBER (C	topy from Iter 18640006	n 1 of Form 1) 6682	OUTFALL N	IMP 00	5				
	and the second	2. MARK	'X'	Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec.		3. EFFLUE b. MAXIMUM 30 DA	INT			Autorias	4. UI	VITS	5. INT	TAKE (optional)	a/)
1. POLLUTANT AND CAS NUMBER	a. TEST- ING	b. BE- LIEVED	c. BE- LIEVED	a, MAXIMUM DAIL	YVALUE			c. LONG TERM AVRO (if available)		d. NO. OF	a. CONCEN-	b. MASS	a. LONG AVERAGE	TERM	b. NO. OF ANAL-
(if available)	RE- QUIRED	PRE- SENT	AB- SENT	(1) CONCENTRATION	(2) MASS	(if available (1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	D. MASS	(1) CONCEN- TRATION	(2) MASS	YSES
GC/MS FRACTION - V 22V. Methylene Chloride (75-09-2)	OLATILE	COMPOU	INDS (con	tinued)											Construction de la
23V. 1,1,2,2-Tetra- chloroethane (79-34-5) 24V. Tetrachloro- ethylene (127-18-4)															
25V. Toluene (108-88-3)															
26V. 1,2-Trans- Dichloroethylene (156-60-5) 27V. 1,1,1-Tri- chloroethane (71-55-6) 28V. 1,1,2-Tri- chloroethane (79-00-5) 29V. Trichloro- ethylene (79-01-6)															
30V, Trichloro- fluoromethane (75-69-4) 31V, Vinyl Chloride (75-01-4)							-								
GC/MS FRACTION - A	CID COMP	OUNDS	a charge and	and the second second		And the second second	No. La Callana			Service VI	Mal Town	1 579 50 3	CARSE AVENUE	March 201	A Martin and
1A. 2-Chlorophenol (95-57-8)	17														
2A. 2,4-Dichloro- phenol (120-83-2)															
3A. 2,4-Dimethyl- phenol (105-67-9)															
4A. 4,6-Dinitro-O- Cresol (534-52-1)	1														
5A. 2,4-Dinitro- phenol (51-28-5)			IC	TN											
6A. 2-Nitrophenol (88-75-5)				DEPT.											
7A. 4-Nitrophenol (100-02-7)			NOF												
8A. P-Chloro-M Cresol (59-50-7)			WAI	3 1											
9A. Pentachloro- phenol (87-86-5)			EK KESOUH	G											
10A. Phenol (108-95-2)			100	2017											
11A. 2,4,6-Trichloro- phenol (88-06-2)				ATIO											

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1. POLLUTANT	PAGE V-	5 MADK	IVI I			3. EFFLUI	INT		and the second second	11.75-14 V.V. 10	4. UN	ITS	5.0	NTAKE (option	nall
AND CAS	a. TEST-	b. BE-	C. BE-	a. MAXIMUM D	AILY VALUE b. MAXIMUM 30 DAY VALUE		C. LONG TERM AVR	Constanting of	4. 01	110	a. LONG TERM		b. NO. OF		
NUMBER	ING	LIEVED	LIEVED		the state of the	(if available)	(if available,	Planet la	d. NO. OF		b. MASS	AVERAG	EVALUE	ANAL-
(if available)	RE- QUIRED	PRE-	AB- SENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANAL- YSES	TRATION		(1) CONCEN- TRATION	(2) MASS	YSES
CIMS FRACTION -	BASE/N	EUTRAL	COMPOU	NDS	and the second second	CONCENTION	and the second	CONCENTION	Constant and	TOLO	and a state of the		Thermony	A State of State	1
B. Acenaphthene	1		T												
(83-32-9)							1 1						1		
- A AND BOR THE															
2B. Acenaphtylene							1 1								
(208-96-8)							1 1								
3B. Anthracene													1		
(120-12-7)	8														
and the second		1			_										
4B. Benzidine															
(92-87-5)							1 1								
5B. Benzo (a)		+							1				1		1
Anthracene		1											1		
(56-55-3)		1			_										
6B. Benzo (a)															
Pyrene (50-32-8)		1													
7B. 3,4-Benzo-		1	-					-	1				1		
fluoranthene		1	1												
(205-99-2)															
8B. Benzo (ghi)															
Perylene	8														
(191-24-2) 9B. Benzo (k)	-														<u> </u>
Fluoranthene															
(207-08-9)															
10B. Bis (2-Chloro-									E.						
ethoxy) Methane	2														
(111-91-1) 11B. Bis (2-Chloro-	-													+	<u>↓</u>
ethyl) Ether															
(111-44-4)															
12B. Bis (2-Chloro-															
isopropyl) Ether							1 1								
(102-60-1)					_										
13B. Bis (2-Ethyl- hexyl) Phthalate														1	
(117-81-7)															
14B. 4-Bromo-						1			1						
phenyl Phenyl															
Ether (101-55-3)													l		
15B. Butyl Benzyl		1	9		S										1
Phthalate (85-68-7)			CIATO												
16B. 2-Chloro-		1	1 9		9				1				1	1	1
naphthalene		1	NOM												1
(91-58-7)					2				L						
17B. 4-Chloro-			1		<u>n</u>										1
phenyl Phenyl Ether (7005-72-3)			NA V	69	ENV								1		
18B. Chrysene		1	1 -	1	20	1			t				1		1
(218-01-9)			יבא א											1	1
Contraction of the second			2	2017	CONSERVATIO										
19B. Dibenzo (a,h)			1	7	ŝ						×				
Anthracene		1	ğ	2	5								1		1
(53-70-3) 20B. 1,2-Dichloro-		+	E300NCE3	5	<		<u>├</u>		l						
benzene (95-50-1)			1 2	2	T										
			6	i i	õ										
21B. 1,3-Dichloro-					2										
benzene (541-73-1)		1	1	1		1									

						×	EPA I.D. NUMBER (TN	copy from Ite 18640006		OUTFALL	NUMBER	5				
1. POLLUTANT	PAGE V-6	2. MARK	'X'	THE REAL PROPERTY	CALCULATION OF	11.11.2. A.A.	3. EFFLU	ENT	the state of the state of the state	CONTRACTOR OF	State State II	4. U	NITS	5. IN	TAKE (option	al)
AND CAS	a. TEST-	b. BE-	c. BE-	a. MAXI	MUM DAIL	Y VALUE	b. MAXIMUM 30 D/	AY VALUE	c. LONG TERM AVR	G. VALUE		and the second second	Section Dec	a. LON	TAKE (option G TERM	
NUMBER (if available)	ING RE- QUIRED		AB- SENT	(1) CONCENT	RATION	(2) MASS	(if available (1) CONCENTRATION	(2) MASS	(if available (1) CONCENTRATION	(2) MASS	d. NO. OF ANAL- YSES	a. CONCEN- TRATION	b. MASS	(1) CONCEN- TRATION	E VALUE (2) MASS	ANAL- YSES
GC/MS FRACTION - I 22B. 1,4-Dichloro-	BASE/NEI	UTRAL C	OMPOUN	IDS (continu	ied)	- 13. H. S. 21		and the second			CHARLES ST					ALC: NO
benzene (106-46-7)																
23B. 3,3'-Dichloro- benzidine (91-94-1)																
24B. Diethyl Phthalate (84-66-2)																
25B. Dimethyl Phthalate (131-11-3)																
26B. Di-N-Butyl Phthalate (84-74-2)																
(04-74-2) 27B. 2,4-Dinitro- toluene (121-14-2)		1	1													
28B. 2,6-Dinitro- toluene (606-20-2)																<u> </u>
29B. Di-N-Octyl Phthalate																<u> </u>
(117-84-0) 30B. 1,2-Diphenyl- hydrazine (as Azo-																+
benzene) (122-66-7) 31B. Fluoranthene (206-44-0)			+													+
32B. Fluorene (86-73-7)			+													
33B. Hexachlorobenzene (118-74-1)																
34B. Hexa- chlorobutadiene																
(87-68-3) 35B. Hexachloro- cyclopentadiene																+
(77-47-4) 36B. Hexachloro- ethane (67-72-1)					ž											
37B. Indeno (1,2,3-cd) Pyrene			SINIC		DEPT.											
(193-39-5) 38B. Isophorone (78-59-1)		-	DIVISION OF	MAY	9											
39B. Naphthalene (91-20-3)		-		69	ENV.											
40B. Nitrobenzene (98-95-3)		+	WATER RESOURCES	1 2017	% CO											
41B. N-Nitro- sodimethylamine			ESO(2	CONSERVATIO											
(62-75-9) 42B. N-Nitrosodi- Propylamine		\vdash	RCE		TTAVIS											
(621-64-7)			S		Ö											

1. POLLUTANT	2. MARK 'X'				A water and the	3. EFFLU	ENT				4. UI	NITS	5. INT	d)	
AND CAS NUMBER	a. TEST-	b. BE- LIEVED PRE-	c. BE- LIEVED AB-	a. MAXIMUN	DAILY VALUE	b. MAXIMUM 30 D. (if available	AY VALUE	c. LONG TERM AVR (if available)		d. NO. OF	a, CONCEN-	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-
(if available)	ING RE-			(1)	(2) MAS	S (1)	(2) MASS	(1)	(2) MASS	ANAL-	TRATION	D. WASS	(1) CONCEN-	(2) MASS	YSES
GC/MS FRACTION - I	QUIRED	ISENT	SENT	CONCENTRAT		CONCENTRATION		CONCENTRATION	10 10 10 10 10 10 10 10 10 10 10 10 10 1	YSES	a destablished as		TRATION	1-3-31-2255	
43B. N-Nitro- sodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
45B. Pyrene (129-00-0)															
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)															
GC/MS FRACTION - I 1P. Aldrin	PESTICID	ES I	1-25-27	The state of the sector			A DATE OF A	Contrapolation of the second second	Contraction of the second	No. V. Street	A Providence and				AND LOUGH
(309-00-2)															
2P. α–BHC (319-84-6)															
3P. β -BHC (319-85-7)															
4P. y- BHC (58-89-9)								18							
5P. 8- BHC (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)			5	2	N										
11P. α-Endosulfan (115-29-7)			OTCTAT		DEPT										
12P. β-Endosulfan (115-29-7)				MAY	OF ENV.										
13P. Endosulfan Sulfate (1031-07-8)			WATE	3.1	20										
14P. Endrin (72-20-8)			KES	2017	CONS										
15P. Endrin Aldehyde (7421-93-4)			DURC		CONSERVATION										
16P. Heptachlor (76-44-8)			5		NOL										

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER TN8640006682 IMP 005

CONTINUED FROM PAGE V-8 4. UNITS 1. POLLUTANT 2. MARK'X' 3. EFFLUENT 5. INTAKE (optional) a. MAXIMUM DAILY VALUE C. LONG TERM AVRG. VALUE AND CAS a. TEST- b. BE- c. BE-ING LIEVED LIEVED b. MAXIMUM 30 DAY VALUE a. LONG TERM a. LONG TERM b. NO. OF d. NO. OF AVERAGE VALUE AVERAGE VALUE NUMBER (if available) (if available) ANAL-(if available) RE- PRE-QUIRED SENT AB-(2) MASS (2) MASS (2) MASS ANALa. CONCEN- b. MASS (1) CONCEN-(2) MASS YSES (1) (1) (1) SENT TRATION CONCENTRATION CONCENTRATION CONCENTRATION YSES TRATION GC/MS FRACTION - PESTICIDES (continued) 17B. Heptachlor Epoxide (1024-57-3) 18P. PCB-1242 (53469 - 21 - 9)19P. PCB-1254 (11097-69-1) 20P. PCB-1221 (11104-28-2) 21P. PCB-1232 (11141-16-5) 22P. PCB-1248 (12672-29-6) 23P. PCB-1260 (11096-82-5) 24P. PCB-1016 (12674-11-2) 25P. Toxaphene (8001-35-2)

DIVISION OF WATER RESOURCES

MAY 3 1 2017

TN DEPT. OF ENV. & CONSERVATION