US ERA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 206 Nonwastewaters from Dyes and Pigments 70 FR 9138 – 9180 February 24, 2005 (RCRA Cluster XV, HSWA)

Name of State: Louisiana

State Statutory Authority: Louisiana Revised Statutes Title 30:2001 et. seq. with specific cites of 2174, 2175, 2180

Title of Regulations: Louisiana Environmental Regulatory Code, Part V. Subpart 1 Hazardous Waste and Hazardous

Materials, Effective Date: 2006 edition Date Checklist Completed: May, 2006

	-		STATE ANALOG IS:				
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
PART 261 – 1	DENTIFICATION AN	ND LISTING OF HAZ	ARDOU	JS WAS	ГЕ		
	SUBPART	A GENERAL					
EXCLUSIONS							
revise paragraph (b)(15) to	261.4						
read as follows:							
Leachate or gas condensate	261.4(b)(15)	105.D.2.p	X				
from landfills where certain							
solid wastes are disposed							
_provided that:							
Solid wastes would meet	261.4(b)(15)(i)	105.D.2.p.i	X				
one or more of the listing							
descriptions for Hazardous							
Waste Codes K169, K170,							
K171, K172, K174, K175,							
K176, K177, K178, and							
K181 if these wastes had							
been generated after the							
effective date of the listing;							
Solid wastes in (b)(15)(i)	261.4(b)(15)(ii)	105.D.2.p.ii	X				
were disposed prior to the							
effective date of listing;							
The leachate or gas	261.4(b)(15)(iii)	105.D.2.p.iii	X				
condensate do not exhibit							
any characteristic of							
hazardous waste nor are							
derived from any listed							
hazardous waste;							

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Discharge of the leachate or gas condensate, including that transferred from the landfill to a POTW, is subject to regulation under section 307(b) or 402 of the Clean Water Act.	261.4(b)(15)(iv)	105.D.2.p.iv	X				
As of February 13, 2001, leachate or gas condensate derived from K169 – K172 is no longer exempt if managed in surface impoundment prior to discharge. As of November 21, 2003, leachate or gas condensate from K176, K177, and K178 is no longer exempt if managed in surface impoundment prior to discharge. After February 26, 2007, leachate or gas condensate from K181 will no longer be exempt if managed in surface impoundment prior to discharge. One exception: if surface impoundment is used temporarily in an emergency, provided impoundment has a double liner, and the leachate or gas condensate is managed in compliance w/ b(15)(v) after emergency ends.	261.4(b)(15)(v)	105.D.2.p.v	X				

SUBPART D – LISTS OF HAZARDOUS WASTES

HAZARDOUS WASTES FROM SPECIFIC SOURCES

	I			STATE	ANALOG IS:	
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
amended by designating the	261.32					
existing text and table as (a);						
adding a new entry under						
the heading "Organic						
Chemicals" in the table; and						
adding paragraphs (b), (c),						
and (d) to read as follows:						
261.32(a) reads as follows:	261.32(a)	4901.C.Table 2	X			
Industry and EPA		Hazardous waste				Hazard
hazardous waste No.						code
* *	*	* *		*		*
	Organic	c Chemicals				
* *	*	* *		*		*
comi at the parag (c) le the n criter 265.3 258.4 Subti the p (b)(1 demo to wa 261.3	wastewaters from the product mingled at the point of gener e point of generation, contain graph (c) of this section that evels, as determined on a cal- conwastewaters are: (i) dispo- cia in 258.40, (ii) disposed in 301, (iii) disposed in other St 40, 264.301, or 265.301, or (itle C, or an onsite combustion curposes of this listing, dyes at the onstrating that a facility's no castes that are otherwise ident 33. at the point of generation are any annual mass loading I	ration with nonwastewaters in mass loadings of any of the are equal to or greater than endar year basis. These was sed in a Subtitle D landfill in a Subtitle C landfill units that iv) treated in a combustion on unit that is permitted units and/or pigments production (d) of this section describes inwastewaters are not K181 diffied as hazardous under 2 din. Also, the listing does no	from other constitute corresponding to the procession of the corresponding to the correspondi	er processe eints ident sponding p not be haze of to the d either 264. design crit is permitte ean Air Ad d in parag ess for ting does in .24 and 26	es) that, iffied in paragraph ardous if esign 301or eria in eed under ett. For raph ardous apply \$1.31-	(T)

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FEDERAL REQUIREMENTS	F.	EDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
Listing of Specific Definitions: (1) For the purposes of the K181 listing, dyes and/or pigments production is defined to include manufacture of the following classes: dyes, pigments, FDA certified colors classified as azo, triarylmethane, perylene or anthraquinone classes. Azo products include azo, monoazo, diazo, triazo, polyazo, azoic, bensidine and pyrazolone. Triarylmethane products include triphenylmethane products too. Wastes not generated at dyes and/or pigments manufacturing site are not included in the listing.	261.3		4901.C.1.a	X	GENT	GENT		
K181 Listing Levels. Nonwastewaters containing constituents in amounts equal to or exceeding the following levels in a calendar year are subject to K181 listing, unless certain conditions are met.	261.3	32(c)	4901.C.2	X				
Constituent	·	Chemical	abstracts No.	I	Mass leve	els (kg/yı	:)	
Aniline		62-53-3		9,300				
o-Anisidine		90-04-0		110				
4-Chloroaniline		106-47-8		4,800				
p-Cresidine		120-71-8		660				
2,4-Dimethylaniline		95-68-1		100				
1,2-Phenylenediamine		95-54-5		710				
1,3-Phenylenediamine		108-45-2		1,200				

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FEDERAL REQUIREMENTS	CITATION	CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
Procedures for demonstrating that dyes and/or pigment nonwastewaters are not K181. The procedures described in (d)(1)-(d)(3) and (d)(5) establish when nonwastewaters are not hazardous. If the nonwastewaters are disposed in landfill units or treated in combustion units, then they are not hazardous. Generator must maintain documentation described in (d)(4).	261.32(d)	4901.C.3	X				
Determination based on no K181 constituents. Generators that have knowledge that their wastes contain no K181 constituents can use this to make determination. Generator must document annually and keep these for three years.	261.32(d)(1)	4901.C.3.a	X				
Determination for generated quantities of 1,000 MT/yr or less of wastes that contain K181 constituents. If the total annual quantity of dyes/pigments is 1,000 MT or less, the generator can use knowledge of the wastes to conclude that annual mass loadings are below paragraph (c) listing levels. The generator must:	261.32(d)(2)	4901.C.3.b	X				

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FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Each year document the basis for determining the annual quantity will be less than 1,000 MT	261.32(d)(2)(i)	4901.C.3.b.i	X			
Track the actual quantity of nonwastewaters from Jan. 1 – Dec. 31 of each year. If the actual quantity exceeds 1,000 MT, the generator must comply w/ paragraph (d)(3) for remainder of year.	261.32(d)(2)(ii)	4901.C.3.b.ii	X			
Keep a running total of K181 constituent mass loadings over the calendar year.	261.32(d)(2)(iii)	4901.C.3.b.iii	X			
Keep the following records on site for the three most recent years:	261.32(d)(2)(iv)	4901.C.3.b.iv	X			
Quantity of dyes/pigment nonwastewaters generated.	261.32(d)(2)(iv)(A)	4901.C.3.b.iv.(a)	X			
Process information used	261.32(d)(2)(iv)(B)	4901.C.3.b.iv.(b)	X			
Calculations used to determine annual total mass loadings for each K181 constituent.	261.32(d)(2)(iv)(C)	4901.C.3.b.iv.(c)	X			
Determination for generated quantities greater than 1,000 MT/yr for wastes that contain K181 constituents. If the total annual quantity of dyes/pigments nonwastewaters is greater than 1,000 MT the generator must comply w/ (d)(3)(i) – (d)(3)(xi) in order to make determination that waste is not K181.	261.32(d)(3)	4901.C.3.c	X			
Determine which K181 constituents are expected to be present.	261.32(d)(3)(i)	4901.C.3.c.i	X			

	FEDERAL RCRA AN	ANALOGOUS STATE	STATE ANALOG IS:				
FEDERAL REQUIREMENTS	CITATION	CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
If 1,2-phenylenediamine is present, generator can use knowledge or sampling to determine level of constituent in wastes. For determinations based on knowledge, generator must comply w/ (d)(2) and keep records described in (d)(2)(iv). For sampling based determinations, generator must comply w/ requirements described below.	261.32(d)(3)(ii)	4901.C.3.c.ii	X				
Develop a sampling plan. At a minimum, the plan must include:	261.32(d)(3)(iii)	4901.C.3.c.iii	X				
Discussion of number of samples needed;	261.32(d)(3)(iii)(A)	4901.C.3.c.iii.(a)	X				
Sample collection method;	261.32(d)(3)(iii)(B)	4901.C.3.c.iii.(b)	X				
Discussion of how sampling accounts for temporal and spatial variability.	261.32(d)(3)(iii)(C)	4901.C.3.c.iii.(c)	X				
Description of the test methods.	261.32(d)(3)(iii)(D)	4901.C.3.c.iii.(d)	X				
Collect and analyze samples.	261.32(d)(3)(iv)	4901.C.3.c.iv	X				
Sampling and analysis must be precise, unbiased and representative of wastes.	261.32(d)(3)(iv)(A)	4901.C.3.c.iv.(a)	X				
Measurements must be sensitive, accurate, and precise.	261.32(d)(3)(iv)(B)	4901.C.3.c.iv.(b)	X				
Record analytical results.	261.32(d)(3)(v)	4901.C.3.c.v	X				
Record the waste quantity.	261.32(d)(3)(vi)	4901.C.3.c.vi	X				
Calculate constituent- specific mass laodings.	261.32(d)(3)(vii)	4901.C.3.c.vii	X				
Keep total of K181 mass loadings over calendar year.	261.32(d)(3)(viii)	4901.C.3.c.viii	X				

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FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
Determine whether the mass of any K181 constituent generated over the year is below the listing levels.	261.32(d)(3)(ix)	4901.C.3.c.ix	X				
Keep the following records on site for the three most recent years:	261.32(d)(3)(x)	4901.C.3.c.x	X				
Sampling and analysis plan.	261.32(d)(3)(x)(A)	4901.C.3.c.x.(a)	X				
Sampling and analysis results.	261.32(d)(3)(x)(B)	4901.C.3.c.x.(b)	X				
Quantity of dyes/pigment nonwastewaters generated.	261.32(d)(3)(x)(C)	4901.C.3.c.x.(c)	X				
Calculations performed to determine annual mass loadings.	261.32(d)(3)(x)(D)	4901.C.3.c.x.(d)	X				
Nonhazardous waste determinations must be conducted annually to verify they remain nonhazardous.	261.32(d)(3)(xi)	4901.C.3.c.xi	X				
Annual testing is suspended after three consecutive annual demonstrations wastes are nonhazardous.	261.32(d)(3)(xi)(A)	4901.C.3.c.xi.(a)	X				
Annual testing requirements are reinstated if the manufacturing or waste treatment processes are altered.	261.32(d)(3)(xi)(B)	4901.C.3.c.xi.(b)	X				
If testing requirements are suspended, the generator must keep records of the process knowledge used to support nonhazardous determination. If testing is reinstated, a description of process change must be reinstated.	261.32(d)(3)(xi)(C)	4901.C.3.c.xi.(c)	X				

	FEDERAL RCRA	ANALOGOUS STATE	STATE ANALOG IS:				
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Recordkeeping for the landfill disposal and combustion exemptions. The generator must maintain on site for three years documentation demonstrating that each shipment of waste was received by a landfill unit that is subject to or meets design standards in the listing description, or was treated in combustion units in listing description.	261.32(d)(4)	4901.C.3.d	X	GENT	GLAT		
Waste holding and handling. The generator is responsible for storing wastes appropriately. If wastes are hazardous and generator has not complied w/ Subtitle C requirements, the generator could be subject to an enforcement action.	261.32(d)(5)	4901.C.3.e	X				
add the following entries in alphanumeric order to read as follows:	261 Appendix VII	Ch.49.Table 6	X				
EPA hazardous waste No.	Ha	zardous constituents f	or which	n listed	•		
*	*	*			*		
K181*	Aniline, o-anisidine, 4 phenylenediamine, 1,3		dine, 2,4	l-dimethy	ylanilin *	e, 1,2-	
add the following entries in	261 Appendix VIII	Ch.31.Table 1	X				
alphabetical order to read as follows:	201 Appendix VIII	CII.J1.1aulC 1	Λ				
Common name	Ch	emical abstracts name		Chemi abstra No.	cts	Hazardous waste No.	
* *	*	* *		*		*	
o-Anisidine (2-methoxyanilin	e) Benzenami	ne, 2-Methoxy*		90-04 *	-0 .	*	

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FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
p-Cresidine*	. 2-Methoxy-5-methyl	benzenamine*	1	20-71-8	••••	*
2,4-Dimethylaniline (2,4-		methyl	9	95-68-1		
xylidine)*	· *	* *		*		*
1,2-Phenylenediamine			(95-54-5		4.
* * *	*	* *	•••	*	•••••	*
1,3-Phenylenediamine	*	* *		08-45-2	••••	*
	PART 268 – LAND DIS					
	BPART C – PROHIBIT				PEG	
WASTE SPECIFIC PROHIB	1110NS-DYES AND/C		1	ON WAS	IES	<u> </u>
amended by adding 268.20 and adding and reserving	208.20	2208	X			
268.21 through 268.29 to						
read as follows:						
Effective August 23, 2005,	268.20(a)	2208.A	X			
K181 waste and soil, debris,						
or radioactive waste mixed						
with this waste are						
prohibited from land						
disposal.						
The requirements of	268.20(b)	2208.B	X			
paragraph (a) of this section						
do not apply if:	260 20(1)(1)	2200 D 1	37			
The wastes meet the	268.20(b)(1)	2208.B.1	X			
applicable treatment standards specified in						
subpart D.;						
Persons have been granted	268.20(b)(2)	2208.B.2	X			
an exemption pursuant to a						
petition under 268.6;						
Wastes meet treatment	268.20(b)(3)	2208.B.3	X			
standards pursuant to a						
petition under 268.44;						
Hazardous debris has met	268.20(b)(4)	2208.B.4	X			
the treatment standards in						
268.40 or in 268.45; or						

order the entry for K181 to

read as follows:

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FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Persons have been granted	268.20(b)(5)	2208.B.5	X			
an extension to the effective						
date of a prohibition						
pursuant to 268.5.						
To determine whether a	268.20(c)	2208.C	X			
hazardous exceeds the						
treatment standards in						
268.40, the initial generator						
must test a sample of the						
waste, or the generator may						
use knowledge of the waste.						
If the waste contains						
constituents in excess of						
subpart D levels, it is						
prohibited from land						
disposal and all requirement						
of part 268 apply.			DC			
ADDI ICADII ITV OF TREA		ATMENT STANDAR	שמ			
APPLICABILITY OF TREA		1	v	1		
the Table of Treatment	268.40/ Treatment	Ch. 22.Table	X			
Standards is amended by	Standard Table					
revising the entry for F039 to add constituents in						
alphabetical sequence and						
by adding in alphanumeric						

			ANALOGOUS STATE		ATE ANALOG IS:	
FEDER	RAL REQUIREMENTS	FEDERAL RCRA CITATION	CITATION	ALENT STI	ESS MORE RIN- STRIN- ENT GENT BROADER IN SCOPE	
	TRE	ATMENT STANDARDS	FOR HAZARDOUS	WASTES		
		[Note: NA mean	s not applicable]			
Waste code Waste description and treatment/regulatory subcategory ¹		lous constituent	Wastewate Concentrati in mg/ L ³ o	Concentration in		
	Common name			noted as "mg/L TCLP", or technology code		
*		* *	*	*	*	
F039	Leachate (liquids that	* * * * *				
have percolated through land disposed wastes) resulting from the	methoxyaniline) * * * * *	90-04-0	0.010	0.66		
	disposal of more than or restricted waste classifie as hazardous under		120-71-8	0.010	0.66	
Subpart D of this part. (Leachate resulting from the disposal of one or	2,4-Dimethylaniline (2,4-xylidine) * * * * *	95-68-1	0.010	0.66		
	more of the following EPA hazardous Wastes and no other Hazardous Waste retains its EPA Hazardous Waste Number(s); F020, F021, F022, F026, F027, and/oF028).	,	108-45-2	0.010	0.66	
*	*	* *	*	*	*	
K181	Nonwastewaters from the production of dyes and/o pigments (including		62-53-3 90-04-0	0.81 0.010	14 0.66	
	nonwastewaters	4-	106-47-8	0.46	16	
	commingled at the point of generation with	p-	120-71-8	0.010	0.66	
	nonwastewaters from other processes) that, at the point of generation,	Cresidine	95-68-1	0.010	0.66	
	contain mass loadings of any of the constituents identified in paragraph (of section 261.32 that are equal to or greater than the corresponding paragraph (c) levels, as determined on a calendary year basis.	f 1,2-Phenylenediamine	95-54-5	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	

FEDERAL REQUIREMENTS		ANALOGOUG GTATE	STATE ANALOG IS:						
	UIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	STRIN- STRIN- IN S	BROADER IN SCOPE		
1,3-			108-45-2	0.010 0.66					
Phenylenediamine									
*	*	* *	*	:	*		*		

Footnotes to Treatment Standard Table 268.40

- 1 The waste descriptions provided in this table do not replace waste descriptions in 40 CFR Part 261. Descriptions of Treatment/ Regulatory Subcategories are provided, as needed, to distinguish between applicability of different standards
- 2 CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- 3 Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- 4 All treatment standards expressed as a Technology Code or combination of Technology Codes are explained in detain in 40 CFR 268.42 Table 1- Technology Codes and Descriptions of Technology-Based Standards.
- 5 Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration units operated in accordance with the technical requirements of 40 CFR part 264, Subpart O or 40 CFR part 265, Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.

UNIVERSAL TREATMENT STANDARDS								
amended by adding in	268.48/ Universal	2299.Table 7	X					
alphabetical sequence the	Treatment Standards							
following entries under	Table							
organic constituents:								

Universal Treatment Standards [Note: NA means not applicable]

Regulated constituent common name			CAS ¹ number	Wastewater standard Concentration in mg/L ²	Nonwastewater standard Concentration in mg/kg³ unless noted as "mg/L TCLP"		
*	*	*	*	*	*	*	
o-Anisidine (2-methoxyaniline)			90-04-0	0.010	0.66		
*	*	*	*	*	*	*	
p-Cresidine				120-71-8	0.010	0.66	
*	*	*	*	*	*	*	
2,4-Dimethylanilin	,4-Dimethylaniline (2,4-xylidine)			95-68-1	0.010	0.66	
*	*	*	*	*	*	*	
1,3-Phenylenedian	nine						
*	*	*	*	*	*	*	

FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:			
			EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE

- 1 CAS means Chemical Abstract Services. When the waste code and/ or regulated constituents are described as a combination of a chemical with its salts and/ or esters, the CAS number is given for the parent compound only.
- 2 Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR Part 264, Subpart O, or Part 265, Subpart O, or substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.