

#### **General Information**

ID	Branch	SIC	County	Basin	Start	End
1696	Chemical	2491	Lowndes	Tombigbee River	10/27/1992	

#### **Address**

Physical Address (Primary)	Mailing Address
2300 14th Avenue North	PO Box 268859
Columbus, MS 39701	Oklahoma City, OK 731268859

#### **Telecommunications**

Туре	Address or Phone
Work phone number	(405) 775-5129

#### **Alternate / Historic AI Identifiers**

Alt ID	Alt Name	Alt Type	Start Date	End Date
2808700020	Tronox LLC, Columbus	Air-AIRS AFS	10/12/2000	06/01/2002
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Construction	06/12/1998	
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/06/1997	06/01/2002
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/12/1998	06/01/2002
MSR220010	Kerr McGee Chemical Corporation, Columbus	GP-Wood Treating	10/27/1992	07/13/1997
!	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-EPA ID	10/12/2000	
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-TSD	06/11/2001	04/12/2006
MSD990866329	Tronox LLC, Columbus	Hazardous Waste-TSD	04/13/2006	05/31/2011
1696	Kerr McGee Chemical Corporation	Historic Site Name	10/27/1992	
1696	Tronox, LLC	Official Site Name	04/10/2006	
	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	10/11/1994	10/10/1999
	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	08/23/2000	07/31/2005
ロコンアいかいいし コーニュ	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	10/31/2005	04/12/2006
MSP090021	Tronox LLC, Columbus	Water-Pretreatment	04/13/2006	09/30/2010

#### **Regulatory Programs**

regulatory riograms			
Program	SubProgram	Start Date	End Date
Air	NSPS Subpart Dc	09/12/1990	06/01/2002
Air	SM	+	06/01/2002
Hazardous Waste	Large Quantity Generator	04/01/1997	
Hazardous Waste	TSD - Not Classified	06/11/2001	
Water	PT CIU	10/11/1994	09/01/2003
Water	PT CIU - Timber Products	10/11/1994	09/01/2003

	Processing (Subpart 429)	
Water	PT NCS	09/01/2003
Water	PT SIU	10/11/1994

#### **Locational Data**

Latitude	Longitude	Metadata	S/T/R	Map Links
33 ° 30 '	88 ° 24 '	Point Desc: PG - Plant entrance (General) Data collected by Louis Crawford on 7/11/00. PG - Plant Entrance (General) Data collected by Clift Jeter on 6/13/02. LAT 33deg 30min 36.6sec LON 88deg 24min 35.1sec  Method: GPS Code (Psuedo Range) Differential Datum: NAD83 Type: MDEQ	Section:	SWIMS
38 .51	34 .02		Township:	TerraServer
(033.510697)	(088.409450)		Range:	Map It

10/13/2006 10:29:50 AM

### Kerr McGee Chemical Corporation, Columbus

#### **General Information**

ID	Branch	SIC	County	Basin	Start	End
1696	Chemical	2491	Lowndes	Tombigbee River	10/27/1992	

#### **Address**

Physical Address (Primary)	Mailing Address	
2300 14th Avenue North Columbus, MS 39701	PO Box 268859 Oklahoma City, OK 731268859	

#### **Telecommunications**

Туре	Address or Phone
Work phone number	(405) 775-5110

#### **Alternate / Historic AI Identifiers**

Alt ID	Alt Name	Alt Type	Start Date	End Date
08700020	Kerr McGee Chemical Corporation, Columbus	Air-AIRS AFS	10/12/2000	
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Construction	06/12/1998	
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/06/1997	06/01/2002
168000020	Kerr McGee Chemical Corporation, Columbus	Air-Synthetic Minor Operating	06/12/1998	06/01/2002
MSR220010	Kerr McGee Chemical Corporation, Columbus	GP-Wood Treating	10/27/1992	07/13/1997
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-EPA ID	10/12/2000	Sir
MSD990866329	Kerr McGee Chemical Corporation, Columbus	Hazardous Waste-TSD	06/11/2001	05/31/2011
1696	Kerr McGee Chemical Corporation	Official Site Name	10/27/1992	
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	10/11/1994	10/10/1999
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	08/23/2000	07/31/2005
MSP090021	Kerr McGee Chemical Corporation, Columbus	Water-Pretreatment	10/31/2005	09/30/2010

#### **Regulatory Programs**

Program	SubProgram	Start Date	End Date

Air	NSPS Subpart Dc	09/12/1990	7
Air	SM	06/06/1997	
Hazardous Waste	TSD - Not Classified	06/11/2001	
Water	PT CIU	10/11/1994	09/01/2003
Water	PT CIU - Timber Products Processing (Subpart 429)	10/11/1994	09/01/2003
Water	PT NCS	09/01/2003	
Water	PT SIU	10/11/1994	

#### **Locational Data**

Latitude	Longitude	Metadata	S/T/R	Map Links
33 ° 30 '	88 ° 24 '	Point Desc: PG - Plant entrance (General) Data collected by Louis Crawford on 7/11/00. PG - Plant Entrance (General) Data collected by Clift Jeter on 6/13/02. LAT 33deg 30min 36.6sec LON 88deg 24min 35.1sec  Method: GPS Code (Psuedo Range) Differential Datum: NAD83 Type: MDEQ	Section:	SWIMS
38 .51	34 .2		Township:	TerraServer
(033.510697)	(088.409450)		Range:	Map It

Report Date: 12/16/2005 3:17:08 PM

### INFORMATION REGARDING POTENTIAL RELEASES FROM SOLID WASTE MANAGEMENT UNITS

FACI	LITY NAME:	Kerr-McGee Chemical	Columbus	Facility	
EPA I	I. D. NUMBER:	MSD 990866329	i.u/		3.4
LOCA	TION City	Columbus	.60)		
	State	Mississippi 39701			
	closed) at your fac	ne following solid waste cility? NOTE - DO NOT IN YOUR PART B APPLICATION			
			YES	NO	}-
2. I	Incinerator Storage Tank Storage Tank Container Stor Injection Well Wastewater Tre Transfer Stati Waste Recyclin If there are "Yes" Provide a description Each unit. In part Considered as hazar Include any available dates of dispose	(Above Ground) (Underground) rage Area ls eatment Units	re stored, the hether or no constituent volumes of a descripti	reated or t the was s under R wastes di on of eac	disposed of interval of interval of its would be CRA. Also sposed of and hours and
See	Attachment				
		×			
					<del></del>

Hazardous waste are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII of 40 CFR Part 261.

NOTE:

3. For the units noted in Number 1 above and <u>also</u> those hazardous waste units in your Part B application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the past or still be occurring.

Please provide the following information

- a. Date of release
- b. Type of waste released
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc)

	o release of hazardous waste constituents has been confirmed at this facility.
_	
	In marrowd he has maken melecone described to the late of the
•	In regard to the prior releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would descrit he nature and extent of environmental contamination that exists as a result such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.
•	(for each unit) any analytical data that may be available which would descrit the nature and extent of environmental contamination that exists as a result such releases. Please focus on concentrations of hazardous wastes or
•	(for each unit) any analytical data that may be available which would descrit he nature and extent of environmental contamination that exists as a result such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.
	(for each unit) any analytical data that may be available which would descrit he nature and extent of environmental contamination that exists as a result such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.
	(for each unit) any analytical data that may be available which would descrit he nature and extent of environmental contamination that exists as a result such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.

#### Signature and Certification

As with reports in RCRA Permit Applications, submittal of this information must contain the following certification and signature by a principal executive officer of at least the level of Vice President or by a duly authorized representative of that person:

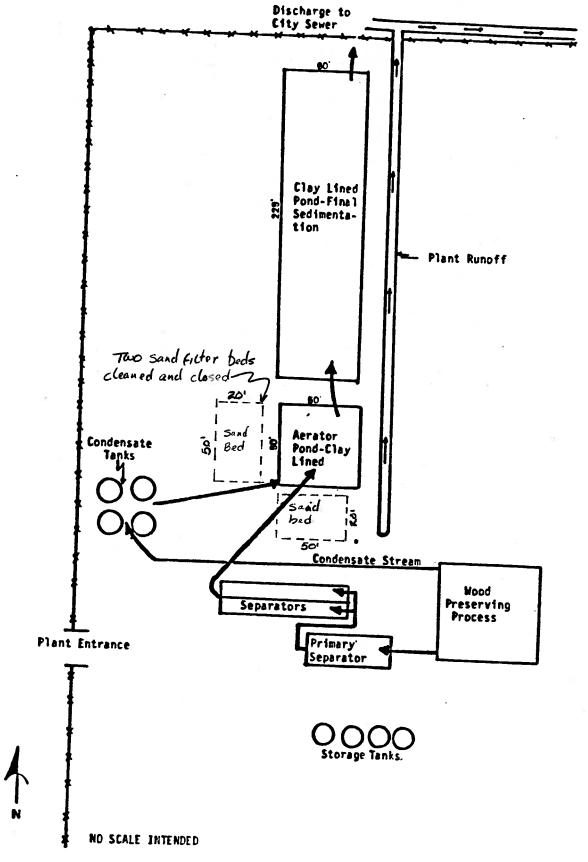
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

R. S. Hahn, Vice-Pres. & Gen. Mgr. of

Name and Title (Typed) Forest Products Div.

# SCHEMATIC DIAGRAM ASTEWATER MANAGEMENT SYSTEM COLUMBUS FACILITY



Kerr-McGee Chemical Corp. Columbus Facility

Paragraph No. 2 continued -

#### Waste piles - (2 sites)

- 1. Site No. 1 is a closed post/pole production site containing wood residue from peeling and debarking operations. This site is not a hazardous waste site. No data available on volume of waste remaining at site.
- 2. Site No. 2 is an active site containing metal bands, wire, sawdust and wood blocks. This site is not a hazardous waste site. No data available on volume of waste at site.

#### Waste Water Treatment Units (3 Units)

- 1. Two sand filter beds were discontinued in 1979 and closed in 1982. The filter beds were non-hazardous. No data available on volume of filtrate remaining after cleaning and closing.
- 2. An aerated lagoon and a settling lagoon are being used in the treatment of waste water from wood preserving processes, which generate hazardous waste KOOl stored in both lagoons. It is estimated the two lagoons contain about 200 cubic yards. See site map from Closure Plan.

#### Waste Recycling Operations

Creosote fluids are recovered periodically from the aerated lagoon.

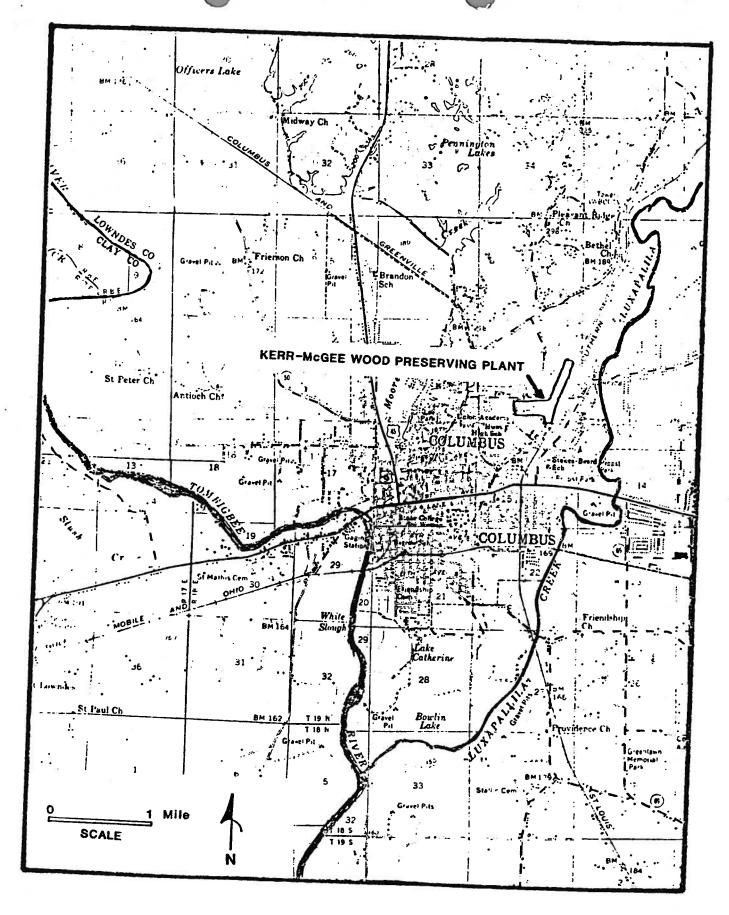


FIGURE 1: KERR-McGEE FACILITY LOCATION

Don-

#### BLUEPRINT

Don Mc Copy 2-13.85

#### For Documenting Compliance with the RCRA Amendments of 1984 February 1, 1985

Facility	Name	: KERR-MCGEE CORPORATION I.D. # MSD 99086632
Mailing	Addre	ss (Facility and Corporate): 507 14th 5t. No.
		Columbus, Ms. 39701
		CORP: KERR-MOGEE CENTER
		Oklahoma City, Oklahoma 7312
Facility	Cont	act: MR. LOWE GILBERT, SUPERINTENDENT
I.	Effe	ct of RCRA Amendments on Facility
	<b>A.</b>	Due to the change in the definition of "regulated unit," is the facility subject to corrective action for groundwater contamination?
		Yes No
		Comments
	В.	Is facility "seeking a permit?"
		YesNo
		If no, is it permitted? Yes No X  Has it closed? Yes No X  Is closure plan approved? Yes X No Seeking "clean" closure? Yes X No
		Comments CP Approved 2-8-85
	C.	Does the corrective action requirement for inclusion into the permit apply?
		Yes No_
		Comments

	D.	Is there any evidence that clean-up beyond the property boundary may be necessary?
		Yes No Don't Know
		Comments
	Ε.	Is the facility subject to the health/exposure assessment requirements?
		Yes No X Don't Know
		If yes, is the due date August 8, 1985?
		YesNo
		If no, when?
	F.	Other effects of amendments on facility:
		NONE
II.	Cur	rent Facility Status, as of February 1, 1985
	Α.	Date of last RCRA inspection: 3-23-84
	В.	Violations found: 265.15; No RECORD OF INSPECTION on Checklist.
		265.56; ARRANGEMENTS NITH LOCAL ANTHORTIES NOT COCHMENTED IN CONTINGENCY PLAN
	c.	Has facility corrected above violations?
		Yes No Don't Know
		Comments KM LTR 6-27-84 RESPONSE TO VIOLATIONS.

	facility has not corrected above violations, as of February 1 5, what enforcement action has been taken? $N/\rho$
Des	cribe nature of action, and dates.
- <del> </del>	**
Is	facility subject to g.w. monitoring requirements?
Yes	No
If ;	yes:  Date of last g.w. inspection:  Tune 1984
b)	Compliance status of g.w. system (see attachment for information requested).
Нас	facility's Part B been called?
	No
71.	yes, describe efforts for obtaining complete Part B.
X	M ChasE To Close in law of Submitting Part B
-	

If facility has submitted intent to close, describe efforts toward obtaining complete closure plan.

If closing, will post closure permit be required?  YesNoDon't Know  Comments  Is facility currently in compliance with the finance requirements for  (a) closure assurance: YesNo  Comments  If yes, when does coverage expire?	PER	MAG BOARD APPROVED 1-22-85
YesNoDon't Know  Comments	<u>B</u> F	C Approved 2-8-85
YesNoDon't Know  Comments		**
YesNoDon't Know  Comments		
YesNoDon't Know  Comments		
YesNoDon't Know  Comments		
Is facility currently in compliance with the finance requirements for  (a) closure assurance: Yes No	If (	closing, will post closure permit be required?
Is facility currently in compliance with the finance requirements for  (a) closure assurance: Yes No  Comments  If yes, when does coverage expire? 9-30-8  (b) sudden insurance? Yes No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes No No N/A  Comments	Yes	No On't Know
Is facility currently in compliance with the finance requirements for  (a) closure assurance: Yes No  Comments  If yes, when does coverage expire? 9-30-8  (b) sudden insurance? Yes No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes No No N/A  Comments	Com	ments
requirements for  (a) closure assurance: Yes  No		
requirements for  (a) closure assurance: Yes  No		
requirements for  (a) closure assurance: Yes  No		
(a) closure assurance: Yes \( \times \) No		· · · · · · · · · · · · · · · · · · ·
If yes, when does coverage expire? 9-30-8  (b) sudden insurance? Yes X No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes X No N/A  Comments	_	
If yes, when does coverage expire? 9-30-8  (b) sudden insurance? Yes X No  Comments  If yes, when does coverage expire? >-1-8  (c) non-sudden insurance? Yes X No N/A  Comments	(a)	closure assurance: Yes X No
(b) sudden insurance? Yes X No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes X No N/A  Comments		Comments
(b) sudden insurance? Yes X No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes X No N/A  Comments		
(b) sudden insurance? Yes X No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes X No N/A  Comments		
(b) sudden insurance? Yes X No  Comments  If yes, when does coverage expire? >-/-8  (c) non-sudden insurance? Yes X No N/A  Comments		
Comments  If yes, when does coverage expire?   One-sudden insurance? Yes   No N/A  Comments		If yes, when does coverage expire? $\frac{9-30-8}{2}$
If yes, when does coverage expire?	(b)	sudden insurance? Yes X No
(c) non-sudden insurance? Yes No N/A Comments		Comments
(c) non-sudden insurance? Yes No N/A Comments		
(c) non-sudden insurance? Yes No N/A Comments		
(c) non-sudden insurance? Yes No N/A Comments		
Comments		If yes, when does coverage expire? $2-1-8$
	(c)	non-sudden insurance? Yes × No N/A
		Comments

H. Have any other activities occurred, or currently underway, which could affect the compliance status of this facility between now and November 8, 1985?

Yes	No_X	Don't Know
Comments_	<del></del>	
	2.4	

III. Based on (I) and (II) above, what are the current and projected problems at the site with respect to being in compliance on November 8, 1985?

NONE

IV. Based on (I), (II), and (III), what actions (e.g., follow-up inspections, enforcement actions, etc.) should be taken in order to bring the facility into compliance by November 8, 1985? [Be sure to factor in those projected dates set forth in the Implementation Plan, where appropriate.]

NONE

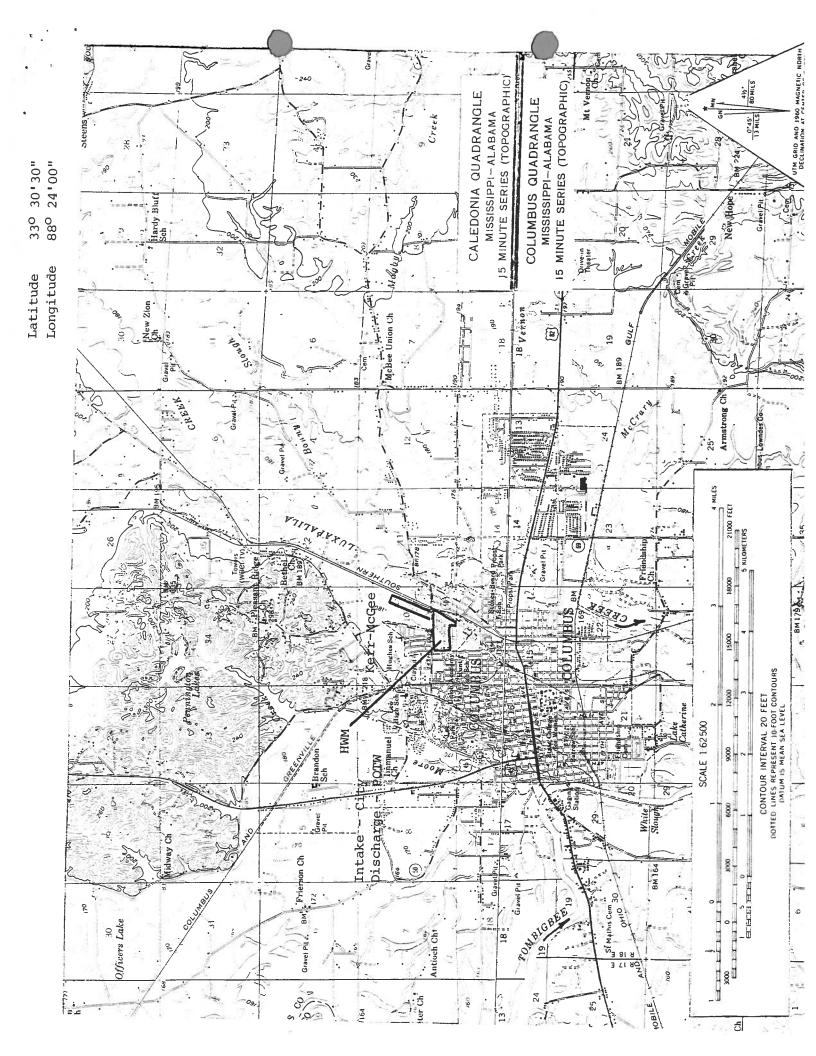
4

10

18 19

	: P	hoto A I:I	<i>сор</i> э. N	y th	is page before completing if BER (enter from page 1)	2	re m	ore	e than	26	wast	es to	_	3 O	FFI	CIA	L US		For	т Арр	rove	ed	01	ИВ	No.	158-	\$800	04
\$ M	S	D	9	9	0 8 6 6 3 2 9 7/4 6	/	1	/	W				D	U	P			T/A 1	2	O U E		1	1	/	/	/	/	//
	DE	SCI	RIP'	TIO	N OF HAZARDOUS WAST	ES	(co	nt			(2)	à Ē					di di		3 23		26							
LINE NO.	EWG	A. EPA HAZARD. B. ESTIMATED ANNUAL WASTENO (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE	°	F M SU F (en t	UNIT MEA- URE inter ode)		1. PROCESS CODES (enter)						D. PRO	D. PROCESSES  2. PROCESS DESCRIPTION (if a code is not entered in D(1))												
1	23	0	0	26	26,400	-	36  P	4	27 S	0 4	27	1 1					r r	9										
2	T				-					1		1 1		Г	1		1 1			39/18/16				200	3-15-7	in-30% š		
3	Γ				The state of the s		Ī			7		1 1		Ţ			1			****	- G		7.			-		
4							Г			7	T	1, 1		1	1		1 1											
5									T			1 1		Т	1		r											*******
6									1	Т-		ı		1	,						-		•			<del></del>		
7										1		1 1		1	1				8						Chi.		% %.	
8												П		1	1		1				er inter-				-			
9										1		Т		1.	Т	T					-							
10										Т-				1	1							777			(-20)		1.51	
11												1		7	1							15-5-2						
12														ı	1		- 1											
13										7					1		-			\$ X						Techie		
14									T	-				ı	1		1											
15										ļ		· ·			ı	-	ď				-							
16					2				T	1		'			1	,				0.2003		100						
17												,		1	r		,			5789000								
18										1.0					1	'	1						5.00		1/50		***	
19							1		8			7 (2)		1														
20										'				_			Г			0000	Facility.							24.28
21														1 -			r		3 53					(9)(2				
22									1				100													- 1//		
23			1						-					_								SILEX				72		950
24					V						5.4 	I		1 3		T	I.											
25											1										•		200				•	
26	23	<u> </u>	2	8 27	35		36		27 -	29	27	- 29	27		- 1		- 29									- 10		and the
PA Fo						-		-	-	-			ببشتشب	-	ابعت				_			_						

Please print or type in the unshaded areas only fill—in areas are spaced for elite type, i.e., 12 ch	h).				Form Approved OMB No. 1	58-Ri	0175	
FORM'	ONM			ECTION AGENCY	I. EPA I.D. NUMBER			
				MATION	911111	1 1	T	J T/A
GENERAL (Read the	Gene	ral Ir	d Permits I structions	rogram " before starting.)	F	40h5/5	(E) (St.)	13 14
I. EPA I.D. NUMBER					GENERAL INSTR	een: p	rovio	ded, affi
UII. FACILITY NAME MSD990866329					it in the designated space. ation carefully; if any of it through it and enter the	t is in	corr	ect, cros
V FACILITY KERR-MC GEE CH	EM 1	CA	L COR	F	appropriate fill—in area bel the preprinted data is abse left of the label space lis	nt (t	e ar	ea to th
V. MAILING ADDRESS, 807 14TH STREE COLUMBUS, MS	1 T 39:				that should appear), please proper fill—in area(s) belo	pro	vide the	it in the
					complete and correct, you items I, III, V, and VI (	өхсер	t VI	-B which
VI. FACILITY 507 14TH STREE	ΞΤ	DM			must be completed regard items if no label has been the instructions for deta	provi	ded.	Refer to
COLUMBUS: MS	35	70 1			tions and for the legal at which this data is collected.	thori	zatio	ns unde
II. POLLUTANT CHARACTERISTICS				MEDINAL MARKET A STAR				<b>一种人类的</b>
INSTRUCTIONS: Complete A through J to determine v questions, you must submit this form and the supplement if the supplemental form is attached. If you answer "no' is excluded from permit requirements; see Section C of the	tal fo	rm ii ach c uctio	isted in the Juestion, y	e parenthesis following the que ou need not submit any of thes	stion. Mark "X" in the box in se forms. You may answer "no s for definitions of bold—faced	the th	ird c our a	olumn ctivity
A. Is this facility a publicly owned treatment works	-	NO	ATTACHED	B. Does or will this facility		YES	NO	FORM
which results in a discharge to waters of the U.S.?		χ		include a concentrated a	inimal feeding operation or n facility which results in a		Х	1.
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in	16	17 X	10	D. Is this a proposed facility		<u>€10-2</u>	X	152 2100
A or B above? (FORM 2C)	22	27	24	waters of the U,S.? (FOR! F. Do you or will you inject	M 2D)	25	26	27
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	Х			municipal effluent below	the lowermost stratum con-		Χ	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface	28	29	30	H. Do you or will you inject	at this facility fluids for soe-	31	32	33 525
in connection with conventional oil or natural gas pro- duction, inject fluids used for enhanced recovery of		χ		cial processes such as mi process, solution mining	ning of sulfur by the Frasch of minerals, in situ combus-			
oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	34	7 38	36	tion of fossil fuel, or rec (FORM 4)	overy of geothermal energy?	12	X 30	-yella <b>19</b> sc
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will be applied to the instructions are also applied to the instruction and also applied to the instruction are also applied to the instructio				J. Is this facility a proposed NOT one of the 28 indu	strial categories listed in the			
structions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an		х		per year of any air polluta	ill potentially emit 250 tons int regulated under the Clean		χ	
attainment area? (FORM 5)	40	41	42	area? (FORM 5)	r be located in an attainment	43	44	45
III. NAME OF FACILITY				学。1859年第二年第二十二年	· 计算工程》并为18年的			被被決議
1 SKIP								
V. FACILITY CONTACT	S. Turas		ACTION INCOMES			69		
A. NAME & TITLE (last, fir	st &	title			PHONE (area code & no.)			
2 LOWE GILBERT D SI	D F	D D	TNT		1 2 2 0 7 F F 1			
/ FACILITY MAILING ADDRESS					1 3 2 8 7 5 1			
A. STREET OR P.O.	вох	1.50		Assure				
3 15			1 1 1					
B. CITY OR TOWN	ger I	illes.	- 1084 - 1084	C.STATE D. ZIP CODI				
		1 1		.   .				ŭ
I. FACILITY LOCATION				46 41 42 47		qv - s-z		
A. STREET, ROUTE NO. OR OTHER SE	ECIF	IC II	DENTIFIE	R				
116	1		1 1 1		JAN 27 '81			
B. COUNTY NAME			F Jista	48	2 4 5 1			
OWNDES		1 1	111		100			
C. CITY OR TOWN		(51)	spania.	D.STATE E. ZIP CODE	F. COUNTY CODE (if known)			
	3J 8				1 7.54.0			
119				40 41 42 47	11 72 - 14	LELY Y	Fla	125.00



## THIS FILE IS CLOSED

THE MATERIAL ENCLOSED IN THIS FILE BEGINS ON:

DATE: 198/

AND ENDS ON:

DATE: 1987

THERE IS MORE RECENT INFORMATION IN THE NEXT FILE ON THIS SITE



# MISSISS. PI DEPARTMENT OF NATURAL RESPONSES P.O. Box 20305 Jackson, Mississippi 39209 (601) 961-5000



April 16, 1984



#### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. P. C. Gaskin, Director Environmental and Quality Control Kerr-McGee Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

At its meeting held on Wednesday, April 11, 1984, the Mississippi Commission on Natural Resources considered certain evidence regarding your wood preserving plant located in Columbus, Mississippi. Enclosed is Commission Order No. 697-84, which has been issued as a result of that consideration.

Your cooperation in carrying out the provisions of the enclosed order is encouraged. As you know, appeals can be taken in accordance with the law.

If you have questions, please do not hesitate to contact us.

Sincerely,

Charlie L. Blalock Executive Director

CLB:CHC:mh

**Enclosure** 

BEFORE THE MISSISSIPPI COMMISSION ON NATURAL RESOURCES BUREAU OF POLLUTION CONTROL

IN THE MATTER OF:

MISSISSIPPI COMMISSION ON NATURAL RESOURCES

COMPLAINANT

VS.

ORDER NO. 697 84

KERR MCGEE CHEMICAL CORPORATION

RESPONDENT

#### ORDER

The above styled cause came on this date for hearing and the Commission, having heard and considered the same, finds as follows:

1.

The Respondent, Kerr McGee Chemical Corporation, located in Columbus, Mississippi, owns and operates a wood preserving plant which generates and subsequently manages hazardous waste, and, as such is subject to the provisions of laws of this State governing the treatment, storage, and disposal of hazardous waste, the same appearing as Section 17-17-1, et. seq., and the rules and regulations of the Mississippi Commission on Natural Resources.

2.

The Respondent detected a significant increase in two groundwater contamination parameters, while conducting groundwater monitoring, as required by MHWMR 265.90, and notified the Department on February 8, 1984.

3.

The Respondent submitted an assessment plan, as required by MHWMR 265.93 on March 21, 1984, to determine the cause and extent of the contamination, if any, which may be arising from hazardous waste management operations at the facility.

The assessment plan, which is to be implemented in three stages, should adequately define the extent of the contamination, if any, arising from the regulated units at the facility.

5.

Premises considered, the Commission finds that the Respondent shall implement the assessment plan, on the schedule included therein, and shall report the results of the assessment to the Department as quickly as possible, but not later than three months from the date of this order for Phase I, four months for Phase II, if necessary, and five months for Phase III, if necessary.

Appeal bond from this Order is set at \$500.00.

ORDERED AND ADJUDGED, this the 11th day of April, 1984, by the Mississippi Commission on Natural Resources.

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

RY.

CHARLIE L. BLALOCK EXECUTIVE DIRECTOR





September 9, 1983

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. David E. Lee, Chief
Hazardous Waste Section
Division of Solid Waste Management
Bureau of Pollution Control
Mississippi Department of Natural Resources
P. O. Box 10385
Jackson, MS 39209

1.33 SEP 14 41 9 fiz

RE: Semi-Annual Groundwater
Monitoring Report
I. D. No. MSD990866329
Kerr-McGee Chemical Corporation
Forest Products Division

Forest Products Division Columbus, Mississippi

Dear Mr. Lee:

Attached are analytical results and chain of custody for the first semiannual sampling of groundwater monitoring wells at the Kerr-McGee Chemical Corporation, Forest Products Division, Columbus Facility. The samples were taken July 1, 1983.

Comparison of the data to established first-year background was done, using the Student's T-Test at the 0.01 signficance level as outlined in the Mississippi Hazardous Waste Regulations, Part 265, for interim status facilities.

Statistically significant differences from background were noted in all downgradient monitor wells for specific conductivity and pH.

The monitor well data from the inception of sampling to date has shown these general downgradient well trends for both components when compared to the upgradient well. However, during this period, there is also a discernable downward trend in conductivity values for all wells indicating a gradual approach to background.

We believe the specific conductivity levels may be the result of boiler blowdown, which, in the past, was discharged into a surface drainage ditch in the area. This discharge was stopped some years ago, and the improvement shown by the one and one-half years well monitoring indicates gradual removal of the source.



Mr. David Lee September 9, 1983 Page 2

Concentrations of total organic carbon (TOC) and total organic belogen (TOX) are statistically comparable between the up and downgradient wells. This indicates that hazardous constituents, KOOl are not migrating from the RCRA storage surface impoundment.

We believe resampling the wells for specific conductivity and pH would only confirm what we already know, and the downward trend will continue. We, therefore, propose that further action beyond development of historical background information be postponed until the results of the second semi-annual sampling occurs in December.

Groundwater elevations (MSL) for each monitor well at the time of sampling are as follows:

CMW #1 - 182.25'

CMW #2 - 179.38'

CMW #3 - 178.82'

CMW #4 - 178.66'

Please call if you have any questions.

Sincerely yours,

KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. Gaskin

Environmental & Quality Control

PCG:jw Attachments

cc: B. W. Boisseau

lst

#### GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES

EPA Fac. No. MSD990866 329

Company Well Number CMW-3 Gradient

Semi-Annual

(INTERIM PERMIT STATUS)

ANNUAL

KERR-McGEE CHEMICAL CORPORATION 328-7551 601 y Company Name: Phone: 14th Ave. & 20th St. North, Columbus, MS 39 70 1 Business Address: Zip: TABLE 1 CONTEMINATION INDICATOR PARAMETERS: FIRST SEMIANNUAL MEASUREMENTS SAMPLE DATE SAMPLE METHOD GROUND WATER SAMPLE PERIOD MMDDYY ELEV. (FT.) 178.82 BAILER 1 070183 PARAMETER CONDUCTIVITY SAMPLE pН TOC TOH PERIOD UNITS UNITS umhos mg/lmg/l 5.9 1 REPLICATE 1 336 1.8 0.05 0.06 5.7 336 2.4 1 REPLICATE 2 1 5.9 336 2.4 < 0.05 REPLICATE 3 5.B 336 2.2 0.05 1 REPLICATE 4 336 2.2 5.8 0.05 1 MEAN 1 VARIANCE 0.009 0 0.08 0.00003 5.534 6.629 0.917 -2.191 1 T VALUE TABLE 2 CONTAMINATION INDICATOR PARAMETERS: SECOND SEMIANNIAL MEASUREMENTS SAMPLE SAMPLE DATE SAMPLE METHOD GROUND WATER PERIOD MMDDYY ELEV. (FT.) 2 SAMPLE PARAMETER PH CONDUCTIVITY TOC TOH PERIOD UNITS UNITS **umhos** mg/l mg/l 2 REPLICATE 1 2 REPLICATE 2 2 3 REPLICATE 2 REPLICATE 4 2 MEAN 2 VARIANCE 2 T VALUE TABLE 3 GROUNDWATER QUALITY INDICATOR PARAMETERS: ANNUAL MEASUREMENTS SAMPLE DATE SAMPLE SAMPLE METHOD GROUND WATER PERIOD MMDDYY ELEV. (FT.) SAMPLE PARAMETER CHLORIDE IRON MANGANESE PHENOLS SCOTUM SULFATE PERIOD UNITS mg/l mg/l mg/l mg/lmg/lmg/l

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents. I believe that the submitted information is true, accurate, and complete.

P. C. GASKIN

Prepared By

Signature of Authorized Agent

. Report for: 1st 19 83 Semi-Annual



#### GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES (INTERIM PERMIT STATUS)

ANNUAL



EPA Fac. No. MSD 990 866 329 Company Well Number CMW-2 Gradient **U**p \_\_\_

Company	v Name:	KERR-McGEE CHE	MICAL CORPORAT	TION	Phone:	(601)	328-7551
	ss Address:	14th Ave. & 20	th St. North.	Columbus, M	Zip:	39701	
TABLE ]	<b>.</b> -						
CONTAM	NATION INDIC	ATOR PARAMETERS: F	TRST SEMIANNUAL M	EASUREMENTS		_	
SAMPLE	SAMPLE DATE	E SAMPLE METHOD	GROUND WATER			-	
PERIOD	MMDDYY		ELEV. (FT.)	_			
1	070183	BAILER	179.38	_	2	2	
SAMPLE	PARAMETER	pН	CONDUCTIVITY	TOC	TOH		
PERIOD	UNITS	UNITS	μπhos	mg/l	mg/l		
_1	REPLICATE :	6.4	309	۷۱	<0.05		
_ 1	REPLICATE 2	2 <b>6.3</b>	309	<u>دا</u>	40.05		
1	REPLICATE :	3 6.2	309	۷۱	40.05		
1	REPLICATE 4	6.4	309	۷ ا	0.06		
1	MEAN	6.3	309	1	0.05		
1	VARIANCE	0.009	0	0	0.00003		
1	T VALUE	(-7.816)	(-5.482)	1.302	-2.191		
TABLE 2					<del> </del>		
CONTAM	NATION INDICA	NTOR PARAMETERS: S	ECOND SEMIANNUAL	MEASUREMENTS			
SAMPLE	SAMPLE DATE	E SAMPLE METHOD	GROUND WATER				
PERIOD	MMDDYY		ELEV. (FT.)	-			
2				_			
SAMPLE	PARAMETER	PH	CONDUCTIVITY	TOC	TOH		
PERIOD	UNITS	UNITS	μπhos	mg/l	mg/l		
2	REPLICATE ]						
2	REPLICATE 2	2					
2	REPLICATE 3	3					
	REPLICATE 4						
	MEAN		··· · · · · · · · · · · · · · · · · ·	<del></del>			
2	VARIANCE			··	<del></del>		
	T VALUE	<del></del>					
TABLE 3		<del></del>					
		INDICATOR PARAMETER	rs: Annual Measu	REMENIS			
SAMPLE	SAMPLE DATE		GROUND WATER				
PERIOD	MMDDYY		ELEV. (FT.)				
				•			
SAMPLE	PARAMETER	CHLORIDE	IRON	MANGANESE	PHENOLS	SODIUM	SULFATE
PERIOD	UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
	<del>-</del>						
Tonanti	G. Abat Than	n newsonalle				ا جائم ما	all ottoched
		e personally examine that the submitte				in this and	all attached
		e uat the summer		/ Accurate	an copiete.		lolan
P. C.	GASKIN		_ / /	1 NOW			17/83
	Prepared	l By	✓ Sig	nature of Autho	rized Agent		Date

Rept. t for: 1st 19 83

, Semi-Annual



ANNUAL

GROUND WATER MONITORING REPORT
FOR HAZARDOUS WASTE FACILITIES
(INTERIM PERMIT STATUS)

L CORPORATION

EPA Fac. No. MSD 990866 329

Company Well Number CMW-1

Gradient Up X Down

Phone: (601) 328-7551

Company Name:	KERR-McGEE	CHEMICAL CORPORA	TION	Phone:	(601) 3	28-7551
Business Address	14th Ave. &	20th St. North,	Columbus, MS	Zip:	39701	
ARLE 1						
·	· ·	FIRST SEMIANNUAL	MEASUREMENTS		-	
AMPLE SAMPLE I ERIOD MINDDY		DD GROUND WATER ELEV. (FT.)				
	((*))		<del>-</del>			
1 07018	3 BAILER	182.25	_			
ample paramete	PR pH	CONDUCTIVITY	TOC	TOH		
ERIOD UNITS	UNITS	punhos .	mg/l	mg/l		
1 REPLICATE	1 4.7	232	1.6	<0.05		
1 REPLICATE	2 4.6	232	1.8	40.05		
1 REPLICATE	3 4.6	232	1.8	40.05		
1 REPLICATE	4 4.7	232	1.6	10.05		
1 MEAN	4.65	232	1.7	0.05		
1 VARIANCE	0.00	3 <i>O</i>	0.013	0		
1 T VALUE	-0.172	-2.210	1.077	0		
ABLE 2						
		SECOND SEMIANNUAL	MEASUREMENTS			
AMPLE SAMPLED						
ERIOD MMDDYY	<u>'</u>	ELEV. (FT.)	_			
2	· · · · · · · · · · · · · · · · · · ·		<del>-</del>			
AMPLE PARAMETE	R PH	CONDUCTIVITY	TOC	TOH		
ERIOD UNITS	UNITS	μπhos	mg/l	mg/l		
2 REPLICATE	1					
2 REPLICATE	2					
2 REPLICATE	3					
2 REPLICATE	4					
2 MEAN						
2 VARIANCE						
2 T VALUE						
ABLE 3		-				
	IY INDICATOR PARAME		REMENIS			
MPLE SAMPLED						
RIOD MMDDYY		ELEV. (FT.)	-			
MITE NAME						
AMPLE PARAMETE ERIOD UNITS	R CHLORIDE mg/l	IRON mg/l	MANGANESE	PHENOLS mg/l	SODIUM	SULFATE
CILIS	iig/ t	119/2	mg/l	ng/k	mg/l	mg/l
certify that I	nave personally exa	mined and am famili	ar with the info	mation submitted	in this and a	ll attached
ocuments. I bel	ieve that the submi	tted information is	true, accurate	and complete.		
. C. GASKIN		$\nearrow$	0 /0/4	· ·	91	9/83
	red By	— (/sig	nature of Author	ized Agent	·	Date
-	-	<b>→</b> J		<b>J</b>	<del>-</del>	

1st 1983 Report for:

Prepared By

Semi-Ammual

#### ANNUAL

FOR HAZARDOUS WASTE FACILITIES (INTERIM PERMIT STATUS)

PA		No. m50990866	32
	1	Company Moll Namb	

Gradient

GROUND WATER MONITORING REPORT

mpany Nam	e: KE	RR-McGEE CHEN	IICAL CORPORAT	LON	Phone:	( <u>601</u> ) <u>328</u> 39701	_ T
siness Ad	dress: 14	th Ave. & 201	th St. North, (	Columbus, MS	Zip: _	39701	
			THE TAXABLE ME	PACT THEMENTIC		-	
		R PARAMETERS: F	IRST SEMIANNUAL ME	ASUREMENTS			
	MPLE DATE	SAMPLE METHOD	GROUND WATER ELEV. (FT.)				
RIOD	MMDDYY						
1 0	70183	BAILER	178.66				
MPLE P	RAMETER	pН	CONDUCTIVITY	TOC	TOH		
	UNITS	UNITS	μπhos	mg/l	mg/l		
	ICATE 1	5.6	408	2,8	0.05		
	IOATE 2	5.7	408	5.0	0.05		
		5.6	408	4.8	10.05		
1 REP	ICATE 3		201	4.6	40.05		
1 REP	LICATE 4	5.6	408	4.3	0.05	•	
1 MEA	N	5.6	408		0	•	
1 VAR	IANCE	0.003	0	1.03			
1 TV	ALUE	(-4.638)	(-9.688)	0.244	0	•	
2 MPLE I	ARAMETER	PH	CONDUCTIVITY	TOC	TOH		
eriod Eriod	UNITS	UNITS	μ <b>mh</b> os	mg/l	mg/l	-	
5						<u>.</u>	
2 REI	LICATE 2			<del>,</del>		-	
2 RE	LICATE 3					<del></del>	
2 RE	LICATE 4					-	
2 ME	AN					_	
2 VA	RIANCE					<del>-</del>	
2 T	VALUE					_ ,	
ABLE 3							
		NDICATOR PARAME		OKUMENTO			
	SAMPLE DATE	SAMPLE METHO	ELEV. (FT.)				
ERIOD	MMDDYY		FLEV. (11.)	_			
				<del>_</del>			SULFATE
SMPLE	PARAMETER	CHLORIDE	IRON	MANGANESE	PHENOLS	SODIUM mg/l	mg/l
PERIOD	UNITS	mg/l_	mg/l	mg/l	mg/l_	щух	
			mined and am fami	liar with the in	formation submitt	ed in this and a	all attached
I certify	that I have	e personally exa	tted information:	is true, accurat	e and complete.		
documents	. I believe	e that the summ		100 La/	1	9/9	9/83
	ACIZTN		//	~ NXX	/		<u>/</u>
. C. G.	Prenamed		— <del>- U</del>	ignature of Auth	porized Agent		Date



#### HARMON ENGINEERING AND TESTING

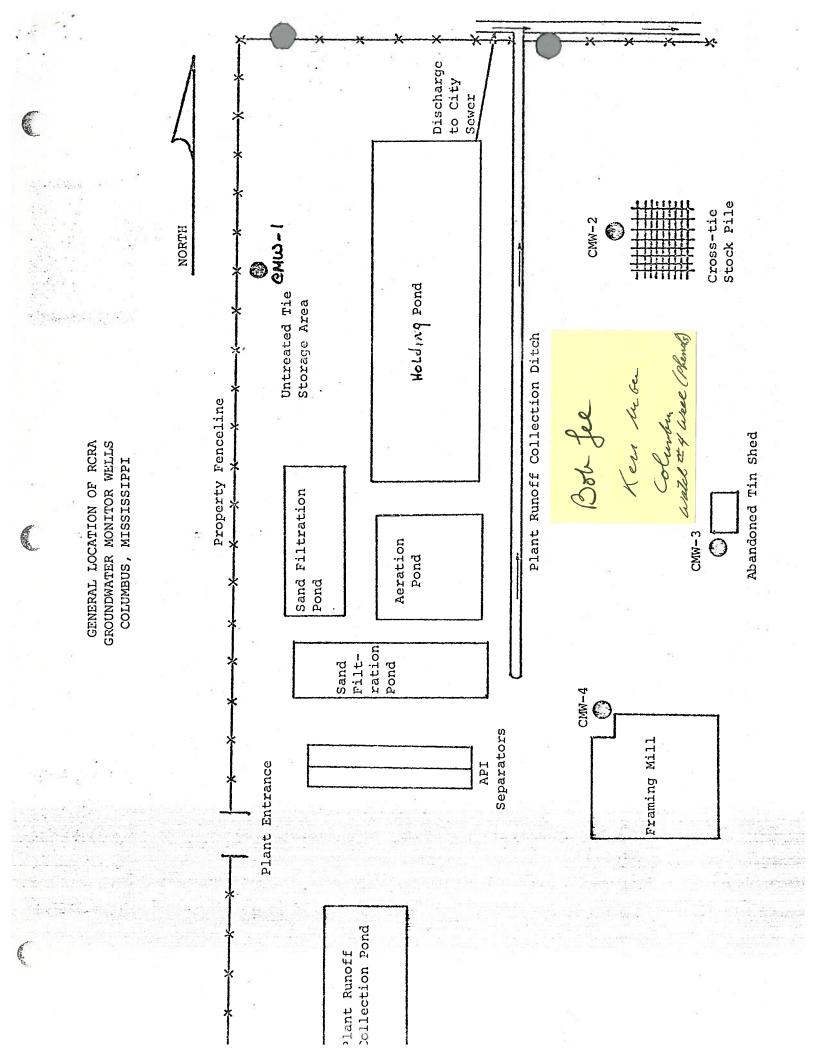
SCIENTISTS = ENGINEERS = SURVEYORS
AUBURN INQUSTRIAL PARK/AUBURN, ALA. 38830/(205)821-9250

# GROUNDWATER MONITORING CHAIN-OF-CUSTODY DOCUMENT

Location: 16 box 706	Project No. 661-07 Date Received 7-5-93 Condition Upon Receipt
Phone: (601) 328-7551	
No. Pump Pre-Purge Pre-Sample Removed to Samp	Time Aliquots  Sing Taken Initials Date Time  Sanin 2 CS 7/1 8:5  min 2 CS 7/1 8:5
1 B 10'11" 11'7" =3 27	min 2 CS 7/1 9:0
ANALYSES REQUESTED  Chloride	OTHER  Drinking Water Parameters  D
SAMPLE TRANSFER INFORMAT  Relinquished By Relinquished To Date 5-7 2. 3. 4.  Note: First Signature is Sampler or Field Team Super Authorized Laboratory Representative. Chain	Time Reason  83 0915 Lab Audraic  ervisor Final Signature is

Lab Receipt. A copy will be returned to client.

· Referenced at top of well casing

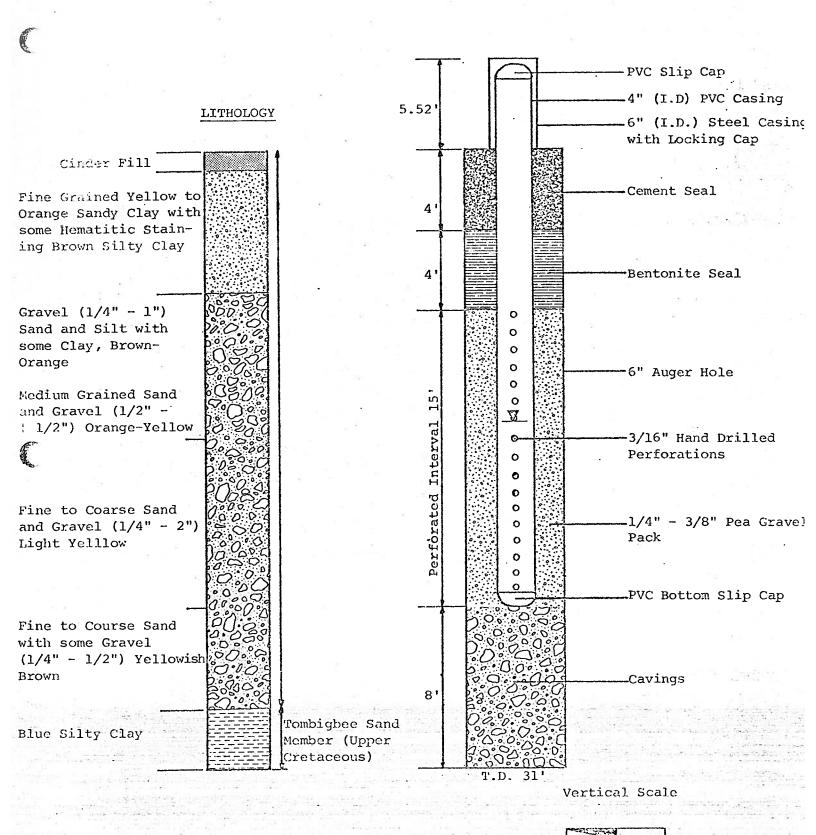


# DRILLING LOG

KM-CORP.		DRILL RIG TYPE - Auger	WELL No. CMW-1		
Forest Products		DOUL FLUID	SHEET 1 OF 2		
CITY		TOP OF	LOCATION Lowndes Co.		
Columbus		CASING ELEV:JD31'	SEC.10 T 185 R18W DRILLED BY Ed Springer		
STATE	. 8	מתיים ליינים	_ = -		
Miss	issippi	BIT TYPE: BIT SIZE:_6"	BEGAN		
		COMPLETION	COMPLETED 6-25-81		
		CASING:	2		
		SCREEN: DEPTH:8' TO23' PACK:SANDXGRAVEL DEPTH8'-23'	LOGGED BY SFL		
		BACK FULING: CHATTINGS GOTHER			
LOC	ATION PLOT	A CEMENT   NONE	DATE6-30-81		
REM	ARKS: Dri	lled to a depth of 31'. Cased to 23' because of	caving perforated 8'		
to 23'	. Bentonite	e 4' to 8', cement seal to surface and gravel pa	cked.		
FT	LITHO	DESCRIPTION			
1	• · · · · · · · · · · · · · · · · · · ·	Cinder fill			
1 .		Cinder IIII			
2 .		Yellowish orange sandy clay, fine grained			
. 3 .		some hematite staining			
4	in.	n i i i i i i i i i i i i i i i i i i i	8		
	2.1	Brown silty clay, some hematite staining			
5 -	e	n n			
6 -	5) H	n n	. *		
7.	3				
8 .	a	Gravel (1/4" - 1") sand and silt with some	clay		
. 9		Brownish orange	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
10 -		Medium grained sand and gravel (1/2" - 1 1/2")			
ં		Orange/yellow damp	2 2 2 2		
11		n en			
12					
13					
14	e a de la companya d La companya de la co	<b>n</b>			
15 -		Fine to coarse tight yellow sand and grave	1 (1/4" - 2")		
16.		п , п			
17 -		11			

	. KM CORP. Forest P	roducts Springfield WELL No. SHEET 2 OF 2
Fï	LITHO	DESCRIPTION
18		
19	_	Gravel (1/4" - 1 1/2") with some coarse sand
20		11
21		As above with more sand
Zi-Shi		11
22		n n
23		Ting to some wait of a 22 and a large
24		Fine to coarse grained yellowish brown
25		Sand and gravel (1/4" - 1/2")
26	111	n a same a s
27		11
	W 95-	s n
28		
29		Blue silty clay. (Tombigbee sand member)
30 j	2 11 72	
31 -	_	
,		Total Depth 31'
,		
j	1 2 8	
1	a 5	
ر		
-		

### COLUMBUS POND MONITOR WELL CMW-1 Well Construction Diagram

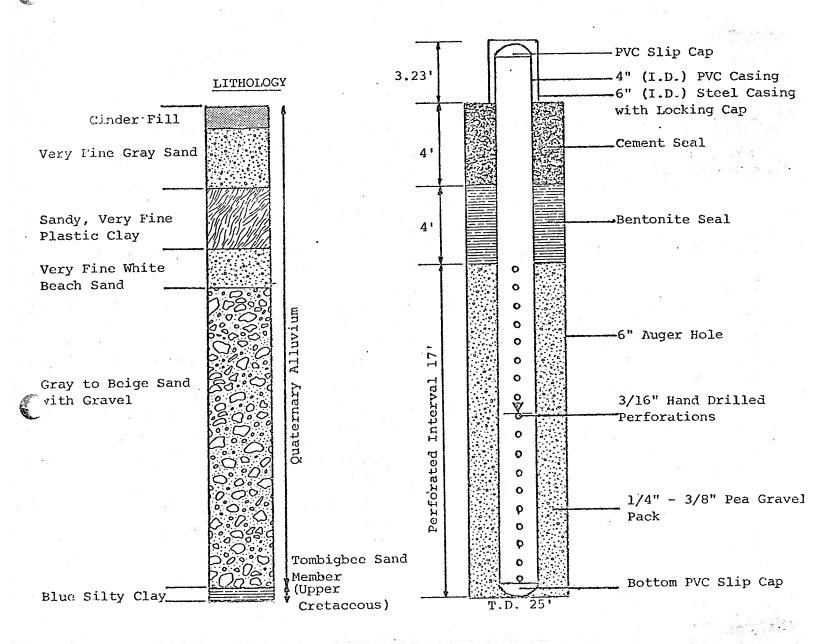


1 inch = 5 feet

# DRILLING LOG

			•
KM-C	1988	DRILL RIG TYPE. Auger	WELL No. CMW-2
	t Products	DRILL FLUID:none	SHEET 1 OF 1 LOCATION:Lowndes Co.
CITY		TOP OF	SEC 10 T 185 R18W
Colum		CASING ELEV:	DRILLED BYEd Springer
	ssippi	BIT TYPE: BIT SIZE: 6"	BEGAN6-25-81
LOCATION PLOT		CASING: PVC OD: 4 1/2" ID 4"  SCREEN: DEPTH: 8' TO 25'  PACK: DSAND EXGRAVEL DEPTH 8'  BACK FILLING: DCUTTINGS ENTONITE  EXCEMENT NONE	COMPLETED 6-25-81  LOGGED BY: SFL  DATE 6-30-81
		led and cased to a depth of 25'. Perforated a	
8'	to 25'. Bei	ntonite seal from 4' to 8'. Cement seal to su	rface.
-			
FT	LITHO	DESCRIPTION	ė v
1 -	0 1	Cinder fill	v III
		Very fine gray sand	
4	*	Very fine sandy plastic clay	
7 -	a gravi	Very fine white beach sand	4
9			
24		Gray to beige sand and gravel	
-25 -	ta sign	Blue silty clay. (Tombigbee sand member)	
		Total depth 25'	* * *
-			e
			•
			113.6.
·			
-1-			•
= -		1 12	

### COLUMBUS POND MONITOR WELL CMW-2 Well Construction Diagram



Vertical Scale

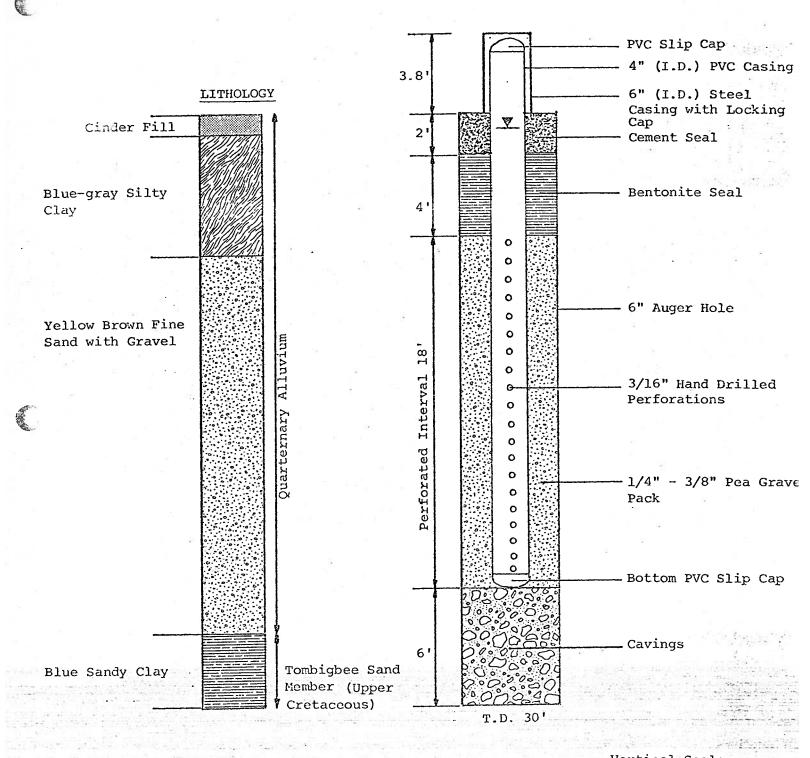
l inch = 5 feet

Constructed June 25, 1931

## DRILLING LOG

KM-CORP.	DRILL RIG TYPE. Auger	WELL No. CMW-3
Forest Products	t was a second of the second o	SHEET 1 OF 1
CITY	DRILL FLUID: None	LOCATION:Lowndes Co.
Columbus	TOP OF CASING ELEV:	SEC. 10 T18S R18W
STATE	CWOTHE EFEA. 70	DRILLED BY: Ed Springs
Mississippi	BIT TYPE: BIT SIZE:_6"	BEGAN 6-25-81
	, = 1 "n "	DLOAN
	COMPLETION	COMPLETED 6-25-81
	CASING: PVC OD: 4 1/2" ID 4"  SCREEN: DEPTH: 6' TO 24'	
		LOGGED BY: SFL
	PACK: SAND SGRAVEL DEPTHBACK FILLING: CUTTINGS SENTONITE	
1007	EXCEMENT DINONE	DATE
LOCATION PLOT		
REMARKS: Dri	lled to a depth of 30'. Cased to a depth of 2	4' because of caving.
Seal to surface	ravel packed from 6' to 24'. Bentonite seal f	rom 2' to 6'. Cement
FT LITHO	DESCRIPTION	9 6
1' = ""	Cinder fill	
	Blue to gray silty clay	
7' -	Wellerdeb been file	
26 '-	Yellowish brown fine to coarse sand with o	gravel
30'	Blue sandy clay (Tombigbee sand member)	W
30 -	Total depth 30'	
	Total depui 30	
		•
		¥
8.11		
-		
a para di salah dan		
-	i i	
		•

### COLUMBUS POND MONITOR WELL CMW-3 Well Construction Diagram



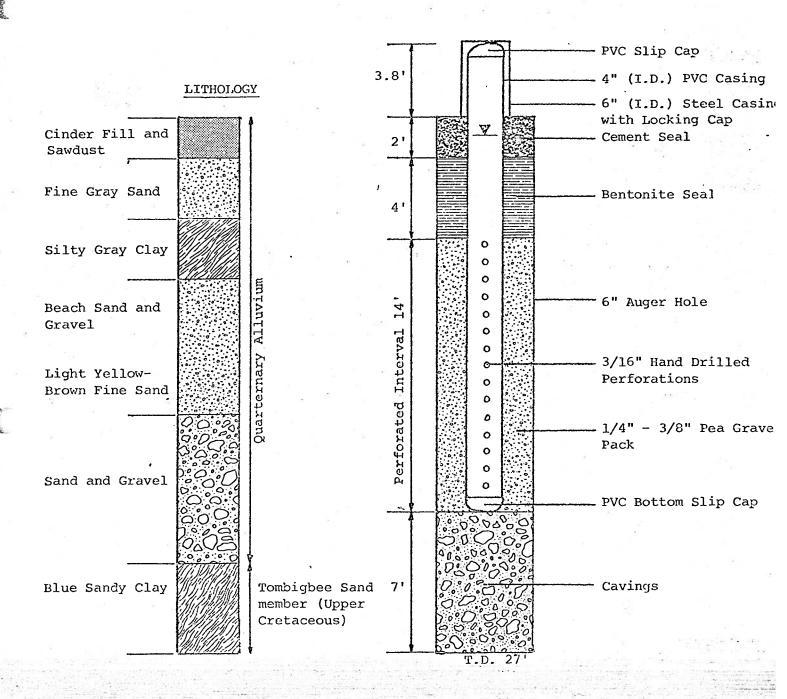
Vertical Scale

l inch = 5 feet

### DRILLING LOG

KM-CC		DRILL RIG TYPE - Auger	WELL No. CMW-4
Forest	t Products	DOUG FILLIO	SHEET 1 OF 1
CITY		DRILL FLUID: None TOP OF	LOCATION Lowndes Co. SEC 10 7185 R 189
Columb	bus	CASING ELEV:TD:	DRILLED BYEd Springer
STATE		v .	Divided by the abitinger
Missis	ssippi	BIT TYPE: BIT SIZE:6"_	BEGAN 6-25-81
		COMPLETION  CASING: PVC OD: 4 1/2 ID 4"  SCREEN: DEPTH: 6' TO 20'  PACK: SAND GRAVEL DEPTH  BACK FILLING: CUTTINGS EXBENTONITE	COMPLETED 6-25-81  LOGGED BY: SFL
1000	ATION PLOT	Øcement □none	DATE 6-30-81
	76. II		
REMA	ARKS: <u>Dril</u>	led to a depth of 27'. Cased to a depth of 2	) because of caving.
	to surface	ravel packed from 6' to 20'. Bentonite seal f	rom 2' to 6'. Cement
	<u> </u>		
FT	LITHO	DESCRIPTION	* · ·
.50	w == 14 <sup>15</sup>	Gindon fill and goodnet annuals and a	
2		Cinder fill and sawdust, creosote noted	
_		Fine gray sand	n 7
5	1		
8 .	añ.	Silty gray clay	
15		Light yellow beach sand and gravel	
		Sand and gravel	a a g
23 -		Blue sandy clay (Tombigbee Sand Member)	
27 -			
71		Total depth 27'	18
		Λ	
1 1		7 2	·
	· = =		2
	30-30-30		
12.0			
elibire)			in the second second
		La	
-			

### COLUMBUS POND MONITOR WELL CMW-4 Well Construction Diagram



Vertical Scale

1 inch = 5 feet

Constructed June 25, 19

### KERR-McGEE CHEMICAL CORPORATION

INTERNAL CORRESPONDENCE

Distribution TO

DATE

December 2, 1981

P. C. Gaskin FROM

SUBJECT

RCRA Groundwater Quality

Assessment Outline

A written outline for a groundwater quality assessment program is required by RCRA for hazardous waste surface impoundments, landfills and landfarms by November 19, 1981 (45 FR 33241). This outline would be used if a groundwater quality assessment is ever required.

Attached is an outline to be kept on file at your facility.

PCG/1bm

Attachment

Distribution:

B. H. Compton

C. W. Durham

B. W. Boisseau

B. L. McDaniel

G. D. Lowe

CC: W. J. Broussard

D. G. Hoffman



### the Existing HW Management Area. Evaluate physical and chemical characteristics of groundwater from monitoring well data. B. Identify and characterize alternate sources of HW that may influence the site. 1. Existing and Historical on-site 2. Existing and Historical off-site C. Evaluate construction details, operating procedures and operating history of the HW facility. Perform a water balance (if possible) around the HW management D. area. E. Examine water levels adjacent to the HW facility. II. Define Hydrogeologic Environment Potentially impacted aquifer(s): 1. Depth 2. Thickness 3. Areal Extent a. local recharge and discharge points determine groundwater usage of aquifer(s) B. Estimate aquifer parameters: 1. Transmissivity 2. Storage coefficient 3. Hydraulic conductivity 4. Effective porosity Estimate local and regional directions and average velocities of groundwater flow: Develop potentiometric maps of aquifer systems using water levels from current monitoring points. 2. Develop depth-to-water maps. III. Define an Expanded Monitoring Well System Α. Review historical groundwater data (if any). Establish locations and depths for new monitoring wells to delineate boundaries of impacted areas. Sample and analyze monitoring wells for the HW constituents at the facility.

GROUNDWATER QUALITY ASSESSMENT PROGRAM OUTLINE

Evaluate Actual and Potential Migration of Hazardous Waste (HW) from

Determine parameters 1. Determine sampling and analysis procedures Determine frequency of sampling 3. IV. Evaluate Impact from Existing HW Management Area and determine concentrations of HW constituents. Estimate rate of HW migration. Estimate extent of HW migration.

- Evaluate physical and chemical characteristics of groundwater
- Interpret analytical results in terms of water quality criteria and other applicable regulations.
- Assess significance of analytical data in terms of compliance requirements.

### Prepare Schedule of Implementation

- Submit assessment plan of EPA or to the State if it has obtained RCRA interim authorization.
- Install additional monitoring wells.
- C. Initiate sampling and analysis.
- Evaluate analytical and physical data. D.
- Install additional wells, if necessary, and monitor. Ε.
- Estimate area impacted from existing HW Management Area. F.
- Submit assessment report to EPA or to the State if it has obtained RCRA interim authorization.



### RCRA INSPECTION REPORT

### 1. Inspector and Author of Report

Undine Johnson

### 2. Facility Information

Kerr McGee Corporation - Columbus

### 3. Responsible Company Official

Bill Creekmore

### 4. Inspection Participants

Undine Johnson, MSDNR
Bill Creekmore, Kerr McGee Corporation

### 5. Date and Time of Inspections

June 24, 1987, 1:15 p.m.

### 6. Applicable Regulations

Mississippi Hazardous Waste Management Regulations, Part 265, Closure and Post-Closure Care

### 7. Purpose of Inspection

To verify compliance with interim status standards.

### 8. Facility Description

Kerr McGee Corporation is located in Columbus, Mississippi. In the past practices, the facility treated poles with creosote and pentachlorophenol. Wastewater generated from this process was disposed of in two surface impoundments.

These units were certified closed on June 19, 1986. Clean closure was not accomplished.

Groundwater contamination has not been detected. A Post-Closure Part B Application was submitted to the Bureau on March 12, 1987.

### 9. Findings

A class two violation was found - warning signs had not been posted on the closed units as required by the State approved closure plan.

All other records were in order.

### 10. Conclusions

The facility had a class two violation; the warning signs had not been posted.

### 11. Recommendations

None. No class one violation was noted; Bill Creekmore informed me that the signs had been ordered and would be posted within the next three weeks. Facility will be asked to notify the Bureau in writing once this had been done.

### 12. Signed

Inspector

### 13. Approval

cc: Mr. James H. Scarbrough, EPA

INTERIM STATUS COMPLIANCE CHECKLIST

-ACILITY Kerr Mc Gee Corp.
-OCATION Columbus, MS
DATE 6-24-87
INSPECTORS Undine Johnson-MSDNR

TOP'

# SUBPART B - GENERAL FACILITY STANDARDS

## 265,12 Required Notices

- The facility owner or operator must weeks in advance of receipt of wastes from a foreign source. notify the Director at least four
- of 40 CFR 265 and 122. owner or operator of the requirements owner or operator must notify the new Before transferring ownership or operation of a facility, the facility's

÷.

### 265. 13 General Waste Analysis ..

all the information which must be known ments. in accordance with the federal requireto treat, store, or dispose the waste or operator must obtain a detailed chemical and physical analysis of of haardous waste, the facility owner Before treating, storing, or disposing The analysis must contain

7

### 203.14 Security to Prevent Unknowing and Unauthorized Access to the Facility

- æ unless; possibility for unauthorized entry The owner or operator must prevent the unknowing entry and minimize the
- injurious structures, or equipment will not be physical contact with the waste,
- will not violate the requirements of Part 265. 2) disturbance of the waste or equipment

Not applicable - NA Not in comp in compliance - Yes S 0 .nce - No

Yes

COMMENTS

No toraign waste is

Ownership has not teen changed

Sludges analysis the Consx Evends Navio been removed impoundment. A waste and contaminated soils or remamin 15 97 5/10 trom hazardous

Grey my-St intedrit not the time

d) The owner or operator must record in- spections in an inspection log and must keep the records for at least three years from the date of inspection.	c) The owner or operator must take remedi- al action upon the detection of mal- function or the deterioration of equip- ment and structures when a hazard is imminent.	and follow a schedule and plan for inspections.	which may be causing or lead to release of hazardous waste constituents to the environment or a threat to human health.	or operator must inspetty for malfunctions and operator errors, or dispersions and the state of	265.15 Inspection and Monitoring	c) A sign warning of the danger of intrud-	(11) a means to control entry	2) (1) an artificial or natural barrier which completely surrounds the active portion of the facility	1) a 24-hour surveillance system	b) Unless exempt under 265:14 (a)(1) or 402.7-14(a)(2), a facility must have:	265.14 - Continued		REOUTREN. AT
 			<u> </u>	۲.		<u></u>		<				1 1	Not in
· .	. If			*		7						101	in compliance
509 (4)	5	30 177 101		William Call		\$ 00000	A 80		<b>3</b>	i		N/A	ice - No
		Standing water.	for the growth of plants	the closed unit is inspected		warning signs were not posted							COMMENTS

N/A

COMMENTS

o)(1-5) If a facil: a rail or water trirdous waste which is shipping paper, the must meet the requests.	REPORTING  a) (1-5) If a faciliardous waste accompation the owner or oper	Pursuant to 265.56, facilities must have contingency plans and emergency procedures to be followed in the event of a release of hazardous waste.	CONTIN	Pursuant to 265:30 through 265:37, faci- lities must be maintained and operated for and prevention of releases of hazardous waste	Through other like means threaten human health or the environment.	<li>Damage the structural integrity of the device or facility containing waste; or</li>	<ol> <li>Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;</li> </ol>	ant	REQUIRENANT.
		<u> </u>	.50	<	•				Not in Not ap
·	p							•	in compliance
	<u></u>				<	< <	<		nce - No - NA N/A
		•9			-			•	COMM

265.72(a) Upon discovery of significant or transporter. the discrepancy with the waste generator operator must attempt to reconcile manifest discrepancy, the owner or

or operator must notify the Director crepancy is not resolved, the owner **(E)** If a significant manifest dis-

265.73(b) The owner or operator, must keep a written operating record at the facilitywhich meets the requirements of 265.73(b).

265.74(a) upon request and available at all times for inspection by the Director or EPA. All records must be furnished

posal locations and quantities must the facility. local land authority upon closure of be submitted to the Director and the A copy of records of waste dis-

an annual report to the Director in compliance with the requirements of The owner or operator must submit

265,76 The receipt of any unmanifested waste must be reported to the Director

265 77 The owner or operator must submit the following occur: a report to the Director if any of

- releases; fires, explosions
- groundwater contamination
- facility closure.

Not applicable - NA Not in comp. ance - No In complian - Yes

Yes

No

COMMENTS

TII COMPTTUNCE - IES

N/A

# SUBPART F - GROUNDWATER MONITORING

- within one year of the effective date of 265.90. on the quality of the upper aquifer of determining the facility's impact groundwater monitoring program capable Owner or operator must implement a
- meets the requirements of must install, operate, and maintain a groundwater monitoring system which 265-94. 265.94 The owner and operator 265,91 -
- 265.90(c) All of the groundwater monitorwells or to surface water. below the facility to water supply of hazardous waste constituents from the facility via the uppermost aquifer there is a low potential for migration owner or operator can demonstrate that ing requirements may be waived if the

# SUBPART G - CLOSURE AND POST-CLOSURE

- his facility in a manner that: The owner or operator must close
- 1) minimizes the need for future maintenance, and

7

- post-closure escape of hazardous controls, minimizes, or eliminates
- 265.112(a) The owner or operator must effective date of Part 265, have a written closure plan on the

monitoring. No groundwater Contamination has been ditecte The facility is in detection

Facility Closed the impoundment and contaminated soils were removed

potential for a fire A vegetative was not placed ng Zard.

265:112(a) Continued--

The closure plan must include:

- A description of how and when the facility will be partially closed, if applicable, and ultimately closed.
- An estimate of the maximum inventory of wastes in storage or treatment at any given time.
- 3) Steps to decontaminate facility equipment.
- 4) A schedule for final closure which must include, as a minimum, anticipated dates when wastes will no longer be received, anticipated date for completion of final closure, and intervening milestone dates.
- 265.113(a) Closure must be initiated within 90 days after receiving the final volume of hazardous wastes.
- (b) The owner or operator must complete closure activities within six months after receiving the final volume of wastes.
- 265.114 Upon completion of closure, all equipment and structures must be properly disposed of or decontaminated.
- 265.115 The owner or operator and an independent registered professional engineer must certify that the facility has been closed in accordance with the approved closure plan.

Not in complance - les
Not applicable - NA
Yes No N/A

COMMENTS

nen the sed, slosed.

inveneatment
eatment
lity
lity
longer
longer
nterven-

An indépendent professional engineer certified closed en Dunner certified closed on July 7, 1986. The deep documentation was submitted on Mard 9, 1987.

Yes

265.173 Containers holding hazardous waste must be kept closed and must not be opened, handled, or stored in a manner which may cause a rupture or leak.

265.174 Areas where containers are stored must be inspected weekly.

265.176 Containers holding ignitable or reactive waste must be located at least 15 meters from the facility's property line.

265.177(a) Incompatible wastes must not be placed in the same container.

(b) A storage container holding ahazardous waste that is incompatible with any waste or other materials stored nearby must be separated or protected from the other materials.

### SUBPART J - TANKS

- 265.192(b) Hazardous waste must be placed in a tank if they could cause the tank or its liner to leak.
- (c) Uncovered tanks must have a least two feet of freeboard unless other containment structures, a drainage control system, or other diversion structures with a capacity that equals or exceeds the volume of the top two feet of the tank.
- (d) Tanks which have a continuous feed system must be equipped with a means to stop the inflow.

265.228 The surface impoundment must close in accordance with 265.228.	(2) Must inspect the surface impoundment at least once a week to detect any leaks, deterioration, or failure.	265.226(1) Must inspect the freeboard level at least once each operating day.	265.225 Must conduct waste analyses and trial tests in accordance with 265. 225.	265.223 Earthen dikes must have protective cover.	265.222 Must maintain at least two feet of freeboard.	SUBPART K - SURFACE IMPOUNDMENTS	*265.199 Incompatible wastes must not be placed in the same tank unless 265. 176 is complied with.	265.198 Ignitable or reactive waste should not be placed in a tank unless 265.  198 is complied with.	265.197 At closure, all hazardous waste and hazardous waste residues must be removed from the tanks.	265.194 Tanks must be inspected in accordance with 265.194.	265,193 Waste analysis must be conducted pursuant to 265.13, and 265,193(a).	REQUIREN
<	•				W		Ę. `					Not ap
	٠.											applicab No
4,7	[W] =	V) (4400m) ii	100°, 00 10 10	W6125	- " <	4 <b>8</b> 0 <b>-9</b> 0	e 2 <u>55</u> 27	i assa a É	9 9 65		• <	N/A - NA
				with MINNE	( ) (	•						COMMENTS

ነ :

7

265.272 -- Continued

must be collected as of one year after the effective date of Part 265 ... C Run-off from active portions

265,273 Waste analyses must be conducted pursuant to 265, 273,

265.276(a) An owner or operator must notify treatment facility. food chain crops are grown on the land the effective date of Part 265 the State Director within 60 days after Ĝ,

less ous waste land treatment facility ungrown on the treated area of a hazard-265.276(b) is complied with. Food chain crops must not be

grown on a land treatment facility receiving waste that contains cadmium unless Food chain crops must not be 265.276(c) is complied with.

265.278 saturated zone monitoring plan pursuant in writing and must implement an un-The owner or operator must have 265.278.

265,279 tion of each hazardous waste placed lication rates, quantities, and locarecords of the application dates, appin a facility. The owner or operator must keep

265,280 meet the closure and post-closure requirements of A land treatment facility must 265.280.

> Not in compliance - No - NA

Not applica

COMMENTS

No N/A

Yes

265.314 Bulk or non-containerized liquid waste, waste containing free-liquids, or containers holding liquid waste should not be placed in a landfill unless the requirements of 265.314	265313 Incompatible wastes must not be placed in a landfill unless 265 17(b) is complied with.	265-312 Ignitable or reactive waste must not be placed in a landfill unless 265-312 is complied with.	265.310 A landfill must comply with closure and post-closure requirements of 265.310.	265.309 The owner or operator must meet the surveying and recordkeeping requirements of 265.309.	(d) Must control wind dispersal.	(b) Run-off from active portions must be collected within one year after the effective date of Part 265.	265.302(a) Run-on must be diverted away from the active portions within one year after the effective date of Part 265.	SUBPART N - LANDFILLS	265.282 Incompatible wanter must not be placed in the same land treatment area unless 265.17(b) is complied with.	265.281 Ignitable or reactive waste must not be placed in a land treatment facility unless 265.281 is complied with.	REQUIREMENT
		<del></del>				¥8	5				Not ap
		Α.	•							•	applicable - l
											1 1

	265.382 Open burning of hazardous waste is prohibited except for the open burning and detonation of waste explosives.	265.301 At closure, the owner or operator must remove all hazardous waste residues.	265.377 Monitoring and inspections must be conducted as delineated in 265. 377.	265.375 Waste analyses must be conducted pursuant to 265.375.	•265.373 Must be at steady state conditions before adding hazardous wastes.	SUBPART P - THERMAL TREATMENT	*265.351 At closure, the owner or operator must remove all hazardous waste and hazardous waste residues.	be conducted as delineated in 265.347	265.345 Waste analyses must be conducted pursuant to 265.345.	265.343 Must be at steady state conditions before adding hazardous waste.	SUBPART O - INCINERATORS	265.315 (1) Empty containers must be reduced in volume as of one year after the effective date of Part 265.	REQUIREM	
14	•						ë.	•					Yes	
		-											140	) 

COMMENTS

		265,406 Incompatible wastes must not be placed in the same treatment process unless 265.17(b) is complied with.  SUBPART R - UNDERGROUND INJECTION  265.430(a) underground injection of hazardous waste is not subject to the closure and post-closure or financial requirements of Part 265. Underground injection is subject to the other requirements of Part 265.
	ं <del>द</del> े	inspections must be mad 165.403. It closure, all hazardo zardous waste residues loved, placed in a treatment
·	×	(a) Must comply with. 26 (b) Hazardous waste must red in the treatment process process would occur. (c) A continuously-fed process be equipped with a means inflow.
applicab No	Yes	CHEMICAL, PHYSICAL, AND BIC

COMMENTS

I. Evaluation of Information Concerning Solid Waste Management Units and Prior or Continuing Releases (PA/SI)

The main purpose is to determine whether or not there have been or may have been prior or continuing releases of hazardous waste or hazardous constituents from solid waste management units which sould require corrective action under Section 3004U of the Hazrdous and Solid Waste Act. The solid waste management units of concern are:

- a) Solid waste management units not currently regulated under RCRA
- Solid waste management units regulated under RCRA but not subject to groundwater monitoring requirements

The purpose of this review is to determine:

- a) Do such units exist?
- b) Have there been prior or continuing releases of hazardous wastes or hazardous constituents from such units?
- c) Have releases caused environmental contamination that would warrant corrective action?
- d) If the answers to questions no. 1, 2 and 3 above are not clear yes or no answers, what additional data, information or investigation is needed to make a clear yes or no answer?

This review has two main components. The first is a review of the questionnaire sent to the applicant regarding Solid Waste Management Units and prior or continuing releases of hazardous waste. The second part is a summary of inspections done at the facility and observations related to Solid Waste Management Units.

The attached flow charts show the key decision points for the two categories of solid waste management units.

A.	Rev	view of Solid Waste Management Unit Questionnaire:
	1)	Date questionnaire re Solid Waste Management Units was sent out $\frac{2-22-7}{2}$
	2)	Date response received 3-8-85
	3)	Review of response indicates
	_	a) Solid Waste Management Units exist (Other than RCRA regulated units)
	_	b) No Solid Waste Management Units exist (Other than the RCRA regulated units shown on Part A and Part B application)

c) It is not clear from review of questionnaire

will be required

whether or not any Solid Waste Management Units exist - additional information and/or a site visit

	4)	If respo	onse to No.3 abo	ve is (a)	then answe	r this que	stion	
			ed to prior or co rdous Constituen es:					
	_	a)	Releases of Ha			nstituents	have occurr	red or
	_	b)	Releases of Ha	zardous Wa	stes or co	nstituents	have not oc	ccurred
	_	c)	It is not know constituents ha			f Hazardous	s Wastes or	Hazardous
	5)		regulated unitations to the ques				monitoring	
NA	_	a)	Releases of Harare thought to			nstituents	have occurr	red or
	_	b)	Releases of Has	zardous Wa	stes or co	nstituents	have not oc	curred
	<u> </u>	c)	It is not known constituents ha			f Hazardous	s Wastes or	Hazardous
	6)		ental Monitoring is available fo				r continuing	ı
	_	a)	Groundwater					
W/A	_	b)	Air					
	_	c)	Surface Waters					
	_	d)	Soils					
	7)	Environm as follo	ental Monitoring ws:	g Data note	ed in No. (	6 above car	n be summari	<b>z</b> ed
		DESCRI	PTION	Ground-	Air	Soils	Surface Water	T

7	),	A
$\sim$	/	1

DESCRIPTION	water	Air	Soils	Surface Water
Hazardous Wastes or Constituents have been detected				
Environmental Standards have been violated				

	8) Did the	facility submit a 103(c) Notification under CERCLA?
	a)	Yes
	b)	No
	units o	answer to No. 8 above is yes, did the facility list the same on the Solid Waste Management Questionnaire as they did on CLA 103(c) Notification Form?
	a)	Yes
P	a)b)	No
в.	Summary of	Inspection at Facility
	evidend under F	the inspection of this facility did the inspector note any see of past waste disposal practices not currently regulated CCRA such as piles of waste or rubbish, ponds or surface iments that might contain waste, active or inactive landfills?
	a)	Yes, Explain
	b)	No
		Cannot Respond to this Question
	might b	ere any evidence of discolored soils or dead vegetation that be caused by a spill, discharge or disposal of hazardous or constituents?
	a	Yes, Explain
	b)	No No
	c	Cannot Respond to this Question
	(solid	ere any tanks at the facility which are used for waste storage or hazardous) which are located below grade and could possibly ithout being noticed by visual observation?
	a	Yes
	b	) No
	с	Cannot Respond to this Question

	facility which the	n an inspection or inspections that have been done at this y there is <u>no</u> reason to question or doubt the information he applicant has submitted on the questionnaire regarding easte Management Units and the possibility of prior or conreleases of hazardous wastes or constituents.
	a)	I concur with this statement
	b)	I do not concur with this statement for the following reasons:
	c)	My knowledge of facility is not sufficient for me to concur or non-concur with the information in the Solid Waste Manage- ment Unit Questionnaire.
		Date or Dates of Inspections
		Inspectors Name Downld G. M. CRAW
		Inspectors Signature
5)	Describ	) was checked, be what additional information or testing is needed to deter- f prior or continuing releases of hazardous wastes or constitu- we occurred. Specify which units are of concern and what
æ/A	types	of releases are suspected. (i.e., releases to groundwater, e water, air, soils, etc.).
6)	An on- or cor	site inspection to discuss and evaluate the possibility of prior utinuing releases from Solid Waste Management Units is recommended
-	a)	Yes
	/ b	No No

7.	extent of	al Investigation (R.I.) is needed to evaluate the nature and prior releases of hazardous wastes or constituents from ste Management Units.
	a)	Yes
_	b)	No
8.	If the arrequiring is as fo	nswer to No. 7 above is "Yes", the priority and manner for g the applicant to conduct the Remedial Investigation (R.I.)
	a)	Require R.I. in compliance schedule that is part of RCRA permit.
_	b)	Issue Compliance Order requiring R.I. to be done.

### Form for RCRA Facility Management Plan

I.	Facility Information
	Facility Name: KERR-MEGEE Chemical Capparation, Wood PROducts DI
	EPA I.D. No.: MSD 990866329
	Facility Address: 507 14th, St. North
	Columbus, Ms. 39701
	Facility Management Strategy Prepared By:
	Name: Dand G. McCRAW 8-22-85
	Agency/Organization: MDNR-BPC-SWWS
	RCRA Regulated Units at Facility Types of Wastes Handled
	Storage in Tanks or Containers
	Incinerator
	Land Fill
	Surface Impoundment KOO/
	Waste Pile
	Land Farming
	OUTLINE FOR DEVELOPING A FACILITY MANAGEMENT PLAN
I.	Facility Analysis
	A. Compliance Monitoring & Enforcement Status B. Permit Status C. Solid Waste Management Unit/Prior Release Information - (What is known?)
	D. CERCLA Requirements, Status, Issues E. Significance of Releases and Evaluation of Actions Needed
II.	Problem Identification, Evaluation of Available Tools (authorities), and Recommended Solutions

III. Calendar of Events and Responsible Office for Implementing Priority Actions

### I. Facility Analysis

### A. Interim Status Compliance Monitoring and Enforcement Summary

The objective of these questions is to determine what is known about the facility's compliance with interim status standards, what is needed to determine compliance and what actions might be appropriate to correct non-compliance.

60	U-5			
T 5	2			
	2 1		estom ovist?	
Does a	Ground-water	monitoring sy	/stem exist:	
			Don't Vnov	Not Required
	Yes	No	DOI T NIOW	NOC Negatied
nonito:	answer to "2 ring to devel	e is yes, at v lop Part B app	what stage (detection lication data) is the	ne facility in
monito: GWM?	ring to devel	lop Part B appi	vhat stage (detection lication data) is the	he facility in
monito: GWM?	ring to devel	lop Part B appi	lication data) is t	he facility in
monito: GWM?	ring to devel	lop Part B app.	lication data) is the	ne facility in
monito GWM?	ring to devel	lop Part B app.	lication data) is t	ne facility in
monito GwM?	answer to "2	lop Part B app.	it capable of monit	ne facility in
monito GWM?	ring to devel	lop Part B app.	lication data) is the	ne facility in
If the lated	answer to "Zand SWM units  Yes  answer to "Z	2" is yes, is: No	it capable of monit  Don't Know  ailure to have a sy	oring both regu
If the lated	answer to "Zand SWM units  Yes  answer to "Z	2" is yes, is No 2" is no, is for	it capable of monit  Don't Know  ailure to have a sy	oring both regu

6.	Has enough informat understanding of th	ion been collec ne subsurface ge	cted to provide a reasonable eology?	
	Yes	No	Don't Know	
7.	Have appropriate to ment and depth of w uppermost aquifer h	vells to determ	ata been used to support the placine the facility's impact on the ility?	ce <del>-</del>
	Yes	No	Don't Know	
8.	Are the regulatory detect contamination	parameters whi on from the uni	ch are being monitored adequate ts?	to
	Yes	No	Don't Know	
9.	If the answer to " to detect contamin	8" is no, what ation?	other parameters should be monit	.ored
MA				<del></del>
		H.		
10.	Is the sampling ar	nd analysis meth	nodology adequate to detect conta	ami—
		*****	Don't Know	
	Yes	No		
11.	Is the existing GV standards?	MM system in co	mpliance with interim status	
	Yes	No	Don't Know	
12.	, If the answer to	"ll" is no, exp	lain the nature of the non-compl	iance.
p/p	11			
* /				
				<del></del>

•

13.	If the answer to "ll" is no, is there a pending enforcement action against the violator?
r/,	Yes No Don't Know
14.	If the answer to "ll" is don't know, is there a compliance in- spection or other investigation scheduled?
N	Yes No Don't Know
15.	List the types of Class I violations which have been found.
	NONE
16.	List the enforcement actions that have been taken against the
	facility.
	GROER-4-16-84 GW ASSESSMENT
	TROITER - 4-16-84 GW ASSESSMENT
17.	
17.	Did the owner/operator respond to enforcement actions in a
	Did the owner/operator respond to enforcement actions in a cooperative manner?
	Did the owner/operator respond to enforcement actions in a cooperative manner?  Yes No Don't Know  If the answer to "17" is no, provide examples of how the owner/
	Did the owner/operator respond to enforcement actions in a cooperative manner?  Yes No Don't Know  If the answer to "17" is no, provide examples of how the owner/operator was uncooperative.

NOTIFIED BE	C of iNCREASE IN TWO GWNW ON 2-8-81
SubmITTED ASS	SESSMENT PlAN TO BPC ON 3-21-84
COMPLETED	work addressED in ASSESSMENT whend as
o evaluate con	re proposed to gather additional information needs mpliance with key I.S.S. requirements, (i.e. ground ng, financial assurance, etc.).
NONE	
What actions a	re proposed to correct non-compliance that still
What actions as	are proposed to correct non-compliance that still
That actions as	are proposed to correct non-compliance that still

В.	Sum	mary ions	of Part B Application Review to Date, Problems, Issues, Needed
	1.	Key	Dates
		1)	Date Part B Called Clean Clasing Impoundments 1985.
		2)	Date Part B Received
		3)	Date First NOD Sent
		4)	Date First Revised Part B Received
		5)	Date 2nd NOD Sent
		6)	Date of Enforcement Actions for Deficient Part B
		7)	Date 2nd Revised Part B Received
		8)*	CP RECEIVED 4-9-84, REVISES 6-11-84 And 9-7-84
			CP APPROVED 2-8-85
		10)*	
		*	Fill in further processing/enforcement actions that have taken place
	2.	Sun cov ing	mmarize the principle Part B deficiencies that remain unresolved; wer all major deficiencies but in particular focus on the follow-
			Incinerators - Adequacy of Trial Burn Plan
			Land Disposal Units - Adequacy of groundwater data and hydro- geological information required by 430 CFR 270.14(c)
			Has facility "detected" or measured" groundwater contamination?
			Has the facility been required to submit a Corrective Action Plan per §§270.14(c)(8)?
			No GW CONTAMINATION EXIST, RACILITY PROPOSES TO REMOV
		JO.	IL HA And CONTAMENTED Soil and Equipment doubte Nor
		0	ETECTABLE LEVELS AND BACK-FILL AND CLOSE IMPOUNDMENT

	iency.
CROER 4-16-84	
	tate or EPA is needed to resolve out-
standing deficiencies please ( and what the projected dates (	describe what actions are proposed are for those actions:
Action Proposed	Projected Date
ector froposed	riojected bate
	<del></del>
Projected dates for making a	final permit determination $\mathcal{T}_{EE}$ #2
	final permit determination FEE #2  Projected Date
Permit Activity	
Permit Activity Part B Review and NOD Enforcement Action for	
Permit Activity Part B Review and NOD Enforcement Action for Deficient Part B	
Permit Activity Part B Review and NOD Enforcement Action for Deficient Part B Part B Determined Complete	
Projected dates for making a second permit Activity  Part B Review and NOD  Enforcement Action for Deficient Part B  Part B Determined Complete  Draft Permit Prepared  Draft Permit Public Noticed	final permit determination FEE #2  Projected Date

c.	Soli	olid Waste Management Unit/Prior Release Information					
	1.	Has the PA/SI been completed?					
		Yes	No				
	2.	Are there sol	id waste management	units at the facility?			
		Yes	No	Maybe			
	3.	If the answer prompts suspi	to "2" is maybe, page to that there may	provide the information which y be SWM units.			
		N/R					
				blo of detecting releases from			
	4.	Are the monit solid waste m	oring systems capa anagement units?	ble of detecting releases from			
	Yes No Don't Know						
	5. Is there evidence of releases of hazardous waste or hazardo constituents into the environment at the facility?						
				Don't Know			
		Yes	No				
	6.	If the answer	to "5" is yes, ar	nswer the following:			
N	/p	a. Has the	release been adequa	ately characterized?			
		Yes	No	Don't Know			
		b. Describe the release in terms of the extent of the release, the constituents of the release, and any other pertinent information.					

7.	If the answer to "5" suspicion of release	is no or don't know, s at the facility?	, is there any
	Yes	No	Don't Know
8.	If the answer to "7" prompts suspicion of	is yes, provide the releases.	information which
N/R			
9.	If the answer to "7" learn more about the	is yes, is there and possible release?	y planned action to
10	Yes	No	Don't Know
10.	If the answer to "9"	'is yes, describe th	e planned action(s).
1/2			
11.	If the answer to "9' evaluated nature of	' is no, describe wha releases.	t action is needed to
(R	-		

12.	initiat	activity described in No. 11 above what is the urgency for ing this activity and what authority should EPA or state require applicant to undertake activity.
-	a.	Urgent - Require additional information/data to be gathered by Issuance of Complaince Order Pursuant to:
		Sec. 3013 of RCRA Sec. 7003 of RCRA Sec. 3008(h) of RCRA
_	b.	Not Urgent - Require additional information/data to be gathered by issuing permit with a compliance schedule for conducting a Remedial Investigation (R.I.)
	<u>/</u> e.	No Action Required

D.	Evaluation of CERCLA Authority at Facility and Relationship with RCRA
	1) Did this facility submit a 103 (c) notification form under CERCLA?
	a) Yes
	b) No
	2) If the answer to No. 1 is No, should this facility have submitted a 103 (c) notification form under CERCLA?
	a) Yes
	b) No
	3) Has a CERCLA Preliminary Assessment/Site Investigation (PA/SI) been completed for this site?
	a) Yes
	b) No
	4) If a CERCLA PA/SI has been completed for this site summarize briefly the findings focusing on environmental contamination, imminent hazards and wastes found.
	RCRP SITE LAVESTIGATION COMPLETED and found N
	NEED POR CERCLA ACTION AT THIS SITE.
	5) After reviewing the CERCLA Notification form, the RCRA Part A and Part B applications it appears that:
	a) The RCRA units and CERCLA units are one and the same
	b) The RCRA units and CERCLA units are clearly different units
	c) There is overlap between the RCRA and CERCLA units some are the same and some are different

0)		ities List (NPL)
		Yes, it is
	b)	No, it is not
7)	and o	on the information noted in Items No. 1, 2, 3, and 4 above n current guidance from EPA-Headquarters on RCRA-CERCLA face corrective action for CERCLA units should be handled llows
	_ a)	Totally within the RCRA permit
	_ b)	RCRA-CERCLA activities proceed simultaneously with ultimate CERCLA corrective action being written into RCRA permit as a compliance schedule
	_ c)	CERCLA action alone
V	_ d	NO ACTION NEEDED

E.			of Groundwater Data and Assessment of Need for Interim Status action Order
	1)		of Interim Status Groundwater Data and Groundwater Data in the Part B application indicates:
		a)	There is groundwater contamination that is caused by a RCRA regulated unit.
	_	b)	There is no indication of groundwater contamination caused by RCRA regulated units or Solid Waste Management Units
1577		c)	Information available is insufficient to conclusively determine the presence or absence of groundwater contamination
	2)	If (a) or regarding of the fa	r (c) above is checked, please address these questions g affected aquifers and water supply wells in the vicinity acility
M	- -	a)	Aquifers that have or may have contamination are used as a drinking water source and withdrawal wells are located within 2500 ft. of regulated units
	-	b)	Aquifers that have or may have contamination are used as a drinking water source ad withdrawal wells are located more than 2500 ft. from regulated units. Approximate distance is feet.
	_	c)	Aquifers that have or may have contamination are not used as a drinking water source within a 2 mile radius of facility.
	3)	For water please in	r supply wells that may have groundwater contamination ndicate:
N/p	. —	a)	Water samples have been analyzed and groundwater conamination has been confirmed.
		b)	Water samples have been taken and no contamination is indicated
	_	c)	No sampling and analysis has been done on water supply wells

4)	Iss	uance	of a RCRA permit to this	facility is likely to ta	
		Time		Mo/Yr	Clasing 1985
	a)	0-6	months		
	b)	6-12	months		
	c)	12-1	8 months		
	d)	more	than 18 months		
5) Considering the information provided in Items No. 1, above indicate your evaluation of the need for an intercretive action order:					and 4 status
-	· · · · · ·	_ a)	Due to the imminent hazar and the time required to action should begin immed status corrective action	issue the RCRA permit, o Niately through the use o	of an interim
-	×	b)	Since an imminent hazard RCRA permit will be issue a need to issue an interi (summarize why below)	ed shortly, there does no	ot appear to be
_		_ c)	Presently available inforconclusions of (a) or (b) water wells are utilized facility (2500 ft. or lesissued to expedite the gall, 2 or 3 above (summarized)	) above; however, because in the immediate vicinit as) an enforcement action athering of appropriate (	e drinking ty of the n should be data for items
	V	al.	SiNCE AN IMMINENT ha	ZARD JOES NOT EXIST,	AND THE FACILITY
er ==2.000			is scheduled to cla	s = Fu 85, No GuRTA	LER ACTION IS
			NEEDED AT This GA	cetting.	

POTENTIAL TOOLS

SOLUTION

CONSIDERING THE SOLUTIONS TO ADDRESS THE PROBLEMS

MAJOR PROBLEM IDENTIFIED

None

Clesure Ams
Approved, Amility
in process of closure.

SHORT TERM OBJECTIVE

LONG TERM OBJECTIVE

### TIMETABLE OF KEY ACTIONS

FY86 1st 2nd FY85 3rd 4th LEAD OFFICE KEY ACTION & TOOL

ACTION:

TOOL:

ACTION:

TOOL:

ACTION:

TOOL:

ESTIMATED
RESOURCE COST
PER ACTION

= EPA, RCRA Enforcement
= EPA Permits
= EPA CERCLA Enforcement
= State RCRA Enforcement
= State Permits
= State CERCLA Enforcement



### STATUS OF COMPLIANCE WITH RCRA GROUNDWATER MONITORING REQUIREMENTS

FACILITY NAME: Kerr-McGee Corporation	EPA ID NO.MSD-990-866-329
LOCATION: Columbus, Mississippi	
CATEGORY: I INTERIM STATUS: YES/NO PART	B STATUS: Closing under 265
GROUNDWATER CONTAMINATION: YES/NO/UNKNOWN Groun 07/20/84. Appendix VII constituents below detections.	ndwater assessment completed ctable limits.
CURRENT STATUS:	
<ol> <li>Compliance-Monitoring wells #3 and #4 a to immediately detect contamination. E additional well closer to the impoundment</li> </ol>	BPC required installation of one
2. Technical Deficiencies-	
ACTION/RECOMMENDATIONS:	
1. Compliance/Enforcement-Track state clos	sure
<ol> <li>Technical/Information needs-Need accele to impoundment. Closure should be susp for Appendix VII constituents. Previou conducted on wells too far from impound</li> </ol>	mended until new well is sampled s groundwater assessment
3. Corrective Action-	
BACKGROUND INFORMATION:	
<ol> <li>Facility Description/Waste Types-Wood p and pentachlorophenol.</li> </ol>	reserver, K001 sludge: creosote
<ol> <li>Unit Type(s)-2 surface impoundments - re</li> <li>inactive" settling ponds - date of</li> </ol>	egulated final waste volume unknown.
3. Compliance History-no orders on file	
4. Closure/Post Closure-265 Closure plan so 01/21/85.	ubmitted for public notice
5. CERCLA Status-none known	
MATERIALS REVIEWED: Part A x Part B	EPA Compliance Files x
State Files x Other	
Prepared By: Joseph Hughart Date:	

### CLOSURE AND POST-CLOSURE COMPLIANCE REVIEW CHECKLIST

ENERAL FACILI	TY INFORMATION
EPA ID #	
ddress	
wner	
miter	(name and phone number)
perator	
	(name and phone number)
ame of Facili	ty KERR- MCGEE CHEMICAL CORP Colu
	Inspection
ersonnel Pres	ent
	•
otes:	in the state of
Chosene	pla was madified subsignet view and approved by the Rivil board
to this re	view and approved by the think some
in Fet.	
	DIVISION OF SOLID WASTE
	REVIEWED BY
	DATE Review by 454
	COMMENTS
	no mayor Iss busham alley

	Type of Facility (check all that apply/fill-in blanks)						
<b>□</b> * ·	<u>_X</u> _	Storage	Treatment	Disposal	· K		
			Active	Inactive	Planned		
0		Containers	(n:	umber and volume)			
		Tanks					
0		Piles	(n	umber and volume)			
.··		Incinerator	(n	umber and volume)			
_		Incinerator	(gallo	ons or tons per ho	ur)		
<u> </u>	• :	Landfill .	(80	cres and volume)			
<u> </u>		Land Treatment	(80	cres and volume)	<del></del>		
0	X	Surface Impoundment	1.25 acres		0,000 gallon		
		Chemical/Physical Biological Treatm		ons or tons per hor	ır)		
0		Thermal Treatment		ons or tons per ho	ır)		
0		Underground Injection	8	nal operating rate			

Describe tank and container conditions (e.g., age, remaining surface life, etc.) in Comments section.

<sup>\*</sup>Checkboxes indicate items to be reviewed during on-site visit.

### II. WRITTEN PLAN

*	1.	Is there a WRITTEN CLOSURE PLAN kept at the facility? (40 CFR 265.112(a))	YES.	NO	
10	<b>.</b>				
200	<b>2.</b>	Does the closure plan cover all areas and facilities that were ACTIVE as of 11/19/80?	YES	NO	
•	- 3.	Does the closure plan include <u>general</u> <u>information</u> about the facility which would be helpful in reviewing the plan, including:			a 1 8
		a. facility size(s)	YES.	NO	
		b. facility type(s)	YES	NO	
		c. descriptions of all on-site equipment	YES		
t.		d. topography	YES.	NO	
		e. waste characterization	YES	NO	
		f. soil type	YES	NO	
			YES	NO	
			YES	NO	
•6		h. surrounding population	YES	NO	
		i. size of facility (acres)	YES	NO	N/A
		j. volume of impoundment	YES		N/A
		k. type(s) of treatment/processing			V2
		1. description of liner	YES	NO	N/A
		m. leachate collection system	·· YES		N/A
•		n. gas collection system	YES		NYA
		o. dredging procedures/schedules, etc.	YES		NYA
18		p. incinerator specifications	YES		MYA
		q. other (specify)	YES	NO	
III	. MAXI	MUM EXTENT OF OPERATION			
*	1.	Does the plan identify the MAXIMUM EXTENT OF OPERATION which will be unclosed during the life of the facility? (40 CFR 265.112(a)(1))	YES	NO	
			****	<b>X</b> C	
•	2.	Is the MAXIMUM EXTENT OF OPERATION estimate exceeded by current operations?	YES	MO_	
	3.	Does the MAXIMUM EXTENT OF OPERATION estimate include:			
125		a. the maximum area of landfill or land treatment ever containing wastes?	YES	NO .	N/A
		b. inactive areas open because of operating problems or contingencies?	YES	NO	N/A
	•	c. maximum area of land ever used for land spreading?	YES	NO	AKI

		·			_
		d. the most extensive treatment required	YES	NO	MYA
		for land spreading?			
		e. the maximum area used for storage?	YES	NO	N/A
•		Explain each "NO" answer in comment section.	•		
IV.	PART	TAL CLOSURE	144		
*	1.	Does the plan identify the steps for PARTIAL CLOSURE, at any time during the intended operating life, of			
		<ul><li>a. surface impoundments?</li><li>b. landfills?</li></ul>	YES YES	NO	N/A N/A
		c. tanks?	YES	NO	N/A
		d. other (specify:) (40 CFR 265.112(a))	YES	NO	
.03		IF NO PARTIAL CLOSURE PLAN, CIRCLE N/A AND SKIP TO SECTION V.			
	2.	Does the PARTIAL CLOSURE plan identify			
		a. the size of areas partially closed?	YES	NO	N/A
		b. procedures for partial closure?	YES	NO	
•		c. maintenance program?	YES	NO	
		d. frequency of partial closures?	YES	NO	
•		e. source of cover materials?	YES	NO	N/A
<b>=</b>	3.	Does the plan for PARTIAL CLOSURE demonstrate the adequacy of the cap, etc. to meet the closure requirements?	YES	NO	
		OR			
				110	
		Are these areas or activities otherwise included in the extent of operations of the closure plan?	YES	NO	
	4.	Does the PARTIAL CLOSURE PLAN describe maintenance activities for partially closed areas, including:		(20)	
s -		a. visual inspections?	YES	NO ·	N/A
*		b. ground-water monitoring?	YES	NO	N/A
-		c. maintaining cover?	YES	NO	N/A
-		d. maintaining diversion structures?	YES	NO	N/A
	1	e. controlling erosion?	YES	NO	N/A
		f. maintaining vegetation?	YES	NO	N/A
		g. security requirements?	YES	NO	N/A
		h. leachate collection?	YES	NO	N/A
		i. gas collection?	YES	NO	N/A

5.	Does the PARTIAL CLOSURE PLAN describe
	maintenance frequencies for partially
	closed areas, including:

a.	visual inspections?	YES :	NO	N/A
b.	groundwater monitoring?	YES	NO	N/A
c.	maintaining the cover?	YES	NO	N/A
d.	maintaining diversion structures?	YES	NO	N/A
e.	controlling erosion?	YES	NO	N/A
£.	maintaining vegetation?	YES	NO	N/A
g.	security requirements?	YES	NO	N/A
h.	leachate collection?	YES	NO	N/A
i.	gas collection?	YES	NO	N/A
	there a SCHEDULE FOR PARTIAL CLOSURE? "NO" SKIP TO SECTION V.	YES	NO	

### Does the SCHEDULE FOR PARTIAL CLOSURE 7. include:

*	a.	date(s) of partial closure(s)?	YES	NO	
	<b>b</b> .	(40 CFR 265.112(a)(1)) total time required for each	YES	NO	
		partial closure?			
	C.	time required for key steps-			Fa .
		i. waste removal?	YES	NO	N/A
		ii. waste stabilization?	YES	NO	N/A
		iii. waste treatment?	YES	NO	N/A
		iv. waste disposal?	YES	NO	N/A
		v. placement of cover?	YES	NO	N/A
		vi. vegetation?	YES	NO	N/A
		vii. decontamination?	YES	NO	N/A
		viii. other (specify:)	YES	NO	

### V. MAXIMUM INVENTORY

6.

*	1.	Is there an estimate of the MAXIMUM	) TES	NO	N/A
		INVENTORY of wastes in storage or treatment at any time during the life			
•		of the fecility? (40 CFR 265.112(a)(2))			

viii. other (specify: \_\_\_\_\_)

Does the MAXIMUM INVENTORY estimate include the maximum amount of on-site wastes:

a.	requiring pre-treatment?	YES	NO	N/A
	requiring treatment?	YES	NO	NA
c.	requiring disposal?	YES	NO	N/A

					24	1 min co ei	í
		3.	Does the MAXIMUM INVENTORY estimate include the maximum amount of on-site:	١	at no	tong	V
			include the maximum amount of on-site:	and me	•		
			(Zwt			** / 4	
	3		a. wastes in surface impoundments?	TED.	NU	N/A	
2	3 6		<ul> <li>b. wastes in partially-closed non-disposal</li> </ul>	YES	NO	N/A	
			surface impoundments?				
	3		c. wastes in tanks?	YES	NO	N/A	
	<b>3</b>		d. wastes in piles?	YES	.NO	NA	
	<b>3</b> .	-	e. wastes in drainage pits?	YES	NO	N/A	
	<b>-</b>		f. wastes in containers?	YES	NO	MYA	
ī	2		g. standing liquids?	YES	NO	N/A	
	<b>-</b>		h. sludge?	YES	NO	N/A	
1			i. contaminated soil from land	YES	NO	N/A	
			treatment fields?				
1			j. contaminated soil and liners from	YES	NO	N/A	
			non-disposal impoundments?				
1			k. contaminated soil from around	XES	NO	N/A	
			tanks, containers, piles?				
1			1. process residues?	`YES	NO	N/A	
i	□ ·□≈		m. decontamination residues?	YES	NO	N/A	
		4.	Does the plan discuss the type(s) of				
			TESTING AND CRITERIA to be used to				
			determine:				
				iec	NO	N/A	
	•		a. whether soil is contaminated?	YES	NO	•	
			b. whether decontamination residues	YES	NO	N/A	
			are hazardous?	<b>******</b>	MO	N1 / A	
			c. whether process residues are	YES	NO	N/A	
			hazardous?				
		5.	Are INCOMPATIBLE WASTES identified	YES	NO	N/A	
		٥.	and provisions described for keeping			100	
			them separate during closure?				
			them severage garring grosses.				
	VI.	FIN	AL CLOSURE				

Does the plan clearly identify the 1. STEPS TO CLOSE

at any point during the intended operating life? (40 CFR 265.112(a))

at the end of the intended operating life? (40 CFR 265.112(a))

No longer in use, Close as soon as possible

'NO

	2.	Do the STEPS TO CLOSE in the plan include:			
•	*** **	<ul> <li>a. removal of wastes? (40 CFR 265.113(a))</li> <li>b. treatment of wastes? (40 CFR 265.113(a))</li> <li>c. waste disposal? (40 CFR 265.113(a))</li> <li>d. waste containment?</li> <li>e. cover? (40 CFR 265.310(b))</li> <li>f. decontamination of equipment</li> </ul>	YES YES YES YES YES	NO NO NO NO NO	N/A N/A N/A N/A N/A
	*	and structures? (40 CFR 265.112(a)(3)) g. groundwater monitoring? h. closure certification? (40 CFR 265.115) i. maintenance of leachate program? j. maintenance of gas collection program?	YES YES YES	NO NO NO	N/A N/A
		k. security requirements?	YES	No-	N/A
.24	3.	With respect to the REMOVAL, TREATMENT, OR DISPOSAL of waste, does the plan identify:			
		a. the source and type of materials and equipment needed?	ŶBS	NO	
		<ul><li>b. the amount of labor required?</li><li>c. the capacity, number, and location of trenches or cells needed?</li></ul>	YES	NO NO	N/A
•		d. the area required for landspreading?	YES	NO	NXA
	4.	Does the plan describe the CONTAINMENT of waste, including:			
	*	<pre>a. placement of final cover:    (40 CFR 265.280(c)(2); 265.310(a))</pre>	*		
	*	<pre>i. characteristics of cover?   (40 CFR 265.280(c)(2)(ii);   265.310(a)(5))</pre>	YES	уб	N/A
	*	<pre>ii. design of cover including   final surface contours?   (40 CFR 265.280(c)(2)(ii);   265.310(a)(5))</pre>	YES	'nQ	N/A
40		iii. installation procedures?	YES	140	N/A
я <b>-</b> я	*	b. drainage and diversion structures? (40 CFR 265.280(c)(3),(4))	YES	NO	N/A

,	, : :		-8-			
		c.	vegetation program:		n	
	*		<pre>i. characteristics of vegetation?   (40 CFR 265.280(c)(2)(ii);</pre>	YES .	ŊÓ	N/A
			265.310(a)(5)) ii. soil preparation?	YES	MQ	N/A
	<u>.</u> *	d.	erosion control: (40 CFR 265.310(b)(3))			
	8		<pre>i. type of materials? ii. amount of materials?</pre>	YES YES	NO.	N/A N/A
	*	e.	For landfills, does the closure plan address the following objectives and indicate how they will be achieved? (40 CFR 265.310(b))			
	e <sup>ert</sup>		<ol> <li>Control of pollution migration from the facility via ground water, surface water, and air.</li> </ol>	<b>yz</b> s	NO	N/A
			(2) Control of surface water infil- tration, including prevention of pooling.	YES	УХÓ	N/A
	æ		(3) Prevention of erosion.	YES	MQ	N/A
	*	f.	For land treatment operations, does the closure plan address the following objectives and indicate how they will be achieved? (40 CFR 265.280(a))		*	
S 8			<ol> <li>Control of migration of hazardous wastes and constituents into ground water.</li> </ol>	YES	NO	N/A
			(2) Control of the release of contaminated run-off into surface water.	YES	NO	N/A
	5 8 <b>5</b>		(3) Control of the release of airborne particulate contaminants caused by wind erosion.	YES	NO	N/A
			(4) Protection of food chain crops.	YES	NO	N/A

8.	tion leas that ered	landfills and land treatment opera- is, does the closure plan include at it a narrative statement indicating the following factors were consid- in addressing the closure objectives? CFR 265.280(b), 310(b))	•	. t	
	(1)	Type and amount of waste.	YES	NO	N/A
	(2)	Mobility and rate of migration.	XX.2	NO	N/A
	(3)	Site location, topography, and surrounding land use.	yzś	NO	N/A
	(4)	Climate, including precipitation.	XES	NO	N/A
	(5)	Characteristics of the cover, including material, final surface contour, thickness, porosity, permeability, slope, vegetation.	YES	)MG	N/A
	(6)	Geological and soil profiles and surface and subsurface hydrology.	<b>XE</b> S	МО	N/A
	(7)	Unsaturated zone monitoring.	YES	NO	N/A
	(8)	Type, concentration, and depth of hazardous constituent migration as compared to background concentrations.	YES	NO	<b>N/A</b>
(40	CFR :	plan describe the DECONTAMINATION 265.112(a)(3); 265.114) of facility and structures, including:			٠
a.	and	ist of equipment, containers, structures requiring disposal decontamination?	yes	NO	N/A
b.		ontamination procedures?	YES	NO	N/A
c.	met	nod of treatment or disposal	XXS	NO	N/A

NO

N/A

5.

đ.

of residues?

testing program?

	- 10			
		34		
6	. With respect to MONITORING, does the closure plan describe:	2.8		
	a. details of the groundwater monitoring program during closure?	YES .	MO	N/A
-	b. soil testing and monitoring	XXX	NO	N/A
Ţ.,	c. maintenance of monitoring equipment during closure?	YES	NO	N/A
~	d. other (specify:	YES	NO	
*	With respect to CERTIFICATION of closure (40 CFR 265.115), does the closure plan describe scheduled or estimated number of inspections?	æs	NO	
<b>= 8</b>	If a system for COLLECTING LEACHATE is present, does the closure plan:			
	a. describe leachate removal, treatment, and disposal during closure?	YES	NO	NA
	b. identify the approximate volume of leachate collected?	YES	NO	NA
	c. provide for maintenance of the leachate collection system during closure?	YES	NO	N/A
<del>10</del> 9	o. If a GAS COLLECTION SYSTEM is required during operation, does the closure plan:			
* _= 	a. describe procedures for collecting gas during closure?	YES	NO	MA
	b. describe monitoring samples and analysis during closure?	YES	NO	N/A
	c. maintenance of gas collection system during closure?	YES	NO	MA
	10. If SECURITY (i.e., fencing) is required,			
	does the closure plan:			
*	a. describe the maintenance of security equipment during the closure period?	YES	MO	N/A
	b. describe the installation of appropriate equipment at closure?	YES	MO	N/A
× /- ×	c. state the dimensions of the fence and the area to be enclosed?	YES	NO .	N/A

### VII. FINAL CLOSURE: SCHEDULE

*	1.	Does the plan identify the YEAR when final closure is expected to occur? (40 CFR 265.112(a)(4))	YES:	NO	i'
		• What is the expected year of closure?	JAN	1985	(as soon'
*	2.	Is there a SCHEDULE for final closure activities? (40 CFR 265.112(a)(4))	YES"	NO	
		IF "NO" SKIP TO COMMENTS SECTION.			
	3.	Does the SCHEDULE for final closure include:			×
	*	a. date closure is expected to begin? (40 CFR 265.112(a)(1))	yes	NO	S
	*	b. total time required to close? (40 CFR 265.112(a)(4))	XZS	NO	
,ee	*	c. the time for intervening closure activities? (40 CFR 265.112(a)(4))	yes	NO	
	*	<pre>d. time required for key steps:     i. waste inventory treatment?     (40 CFR 265.112(a)(4))</pre>	XES	NO	N/A.
	*	ii. waste inventory disposal? (40 CFR 265.112(a)(4))	YES	NO	NTA
		iii. removal of waste inventory and residues?	XES	NO	N/A
		iv. decontamination of facility equipment and structures?	yes	NO	N/A
		v. install containment and diversion structures?	YES	NO	NA
	*	vi. placement of final cover? (40 CFR 265.112(a)(4))	YES	) NO.	N/A
		vii. planting vegetation?	YES	,MG	N/A
		viii. closure certification?	XES.	NO	,
		ix. other (specify:	YES	NO	
	4.	Does the SCHEDULE for final closure:	2		
(5) = (6) =	<b>*</b>	a. encompass more than 90 days for treatment, removal, or disposal of hazardous wastes after receipt of final volume of wastes? (40 CFR 265.113(a))	y jeś	NO .	

 encompass more than 180 days for completion of closure plan activities after receipt of final volume of wastes? (40 CFR 265.113(b))

YES NO

### VIII. COMMENTS

<u>D</u>	THE	PLAN	NEVE	R ADD	RESSED	THE	SECU	RITY	
-	CONS	I DER K	TIGNS	DURIN	16 GO	SURE ;	HOWE	VER, TH	tE.
<u> </u>	PRESE	NT	Kerr-	McG	EE PLA	NT SEU	PITY	THAT	15
	ALRE	ADY	IN EXI	STANCE	E MAY	BE A	EQUAT	E,	
							407444		
<u>z)</u>	No	ME	YTION	OF	GROUN	DWATER	Mo	VITORI	VG
_	Dog	LING	CLOS	SURE					
3)	THE	IN	FORM	ATION	ON F	INAL	COVE	e (i.e.	<u></u>
						Ly CON			
						DRE D			
					1,				
				1150 St. 11 St.					
		* 201							
2000									1102

### POST-CLOSURE PLAN CHECKLIST

I.	WRIT	TEN PLAN	ŧ		
*	1.	Is there a written POST-CLOSURE PLAN at the facility? (40 CFR 265.118(a)) If answer is "N/A" skip to cost estimate checklists.	YES	NO	MA
	2.	Does the post-closure plan cover the MAXIMUM AREA EXPECTED TO CONTAIN HAZARDOUS WASTE after closure, including:			
		a. landfills?	YES	NO	N/A
		b. disposal surface impoundments?	YES	NO	N/A
		c. land treatment facilities where hazardous waste will remain?	YES	NO	N/A
e a		d. other remaining hazardous wastes?	YES	NO	N/A
*	3.	Does the post-closure plan provide for 30 years of post-closure care? (40 CFR 265.117(a))	YES	NO	
		How many years of post-closure care?			ĸ
•	4.	Does the post-closure plan cover all areas where hazardous waste will remain that were active as of 11/19/80?	YES	NO	
II.	SPEC	IFIC POST-CLOSURE PLAN REQUIREMENTS			
*	1.	Does the plan clearly identify the ACTIVITIES required in post-closure care? (40 CFR 265.118(a))	YES	NO	
*	2.	Does the plan clearly identify the FREQUENCIES for post-closure activities? See also Question 5. (40 CFR 265.118(a))	YES	NO	
*	3.	Do the GROUNDWATER MONITORING plans (40 CFR 265.117(a)(1); 265.118(a)(1)) include:			
44		a. number of wells?	YES	NO	
•		b. sample collection activities?	YES	NO	
•	•	c. sample collection frequencies?	YES	NO	
		d. sample test activities?	YES	NO	
		e. sample test frequencies?	YES	NO	
		f. replacement of failed wells?	YES	NO	N/A
					•

. . .

· 1

	4.	Is there a copy of the GROUNDWATER SAMPLING AND ANALYSIS PROGRAM attached to the plan?	YES	NO	Ψ
★.	5.	Do the MAINTENANCE PLANS for waste containment structures (40 CFR 265.118(a)(2)) include:	•		
	•	a. inspection activities?	YES	NO	
-	-	b. inspection frequencies?	YES	NO	
		c. maintaining final cover (erosion	YES	NO	
		damage repair) activities?	1110	110	
	*	d. maintaining final cover (erosion	YES	NO	
	^	damage repair) frequencies? (40 CFR 265.310(d)(1))	163	140	
		e. vegetation and fertilizing activities?	YES	NO	
	*	f. vegetation and fertilizing frequencies? (40 CFR 265.118(a)(2)(i))	YES	NO	
		g. mowing activities?	YES	NO	
		h. mowing frequencies?	YES	NO	
·	*	<pre>i. collecting, removing, and treating leachate activities? (40 CFR 265.310(d)(2))</pre>	YES	NO	N/A
	*	j. collecting, removing, and treating leachate frequencies? (40 CFR 265.310(d)(2))	YES	NO	N/A
•	*	k. gas collection activities? (40 CFR 265.310(d)(3))	YES	NO	N/A
	*	1. gas collection frequencies? (40 CFR 265.310(d)(3))	YES	NO	N/A
		m. collection and treatment of runoff?	YES	NO	
		n. frequencies of runoff collection and treatment?	YES	NO	
*	6.	Do MONITORING EQUIPMENT MAINTENANCE plans (40 CFR 265.118(a)(2)(ii)) include:			
ć.	*	a. activities? (40 CFR 265.118(a)(2)(ii))	YES	NO	
	*	b. frequencies? (40 CFR 265.118(a)(2)(ii))	YES	NO	
	. 🔼	b. Elequencies. (40 ork 203.210(8)(2)(22))	110		
	7.	Do SECURITY REQUIREMENT plans include:			
		a. activities?	YES	NO	
		b. frequencies?	YES	NO	
*	8.	Does the plan identify the name, address and phone number of the POST-CLOSURE PERIOD CONTACT? (40 CFR 265.118(a)(3))	YES	NO	

*	9.	For landfills, does the post-closure plan address the following objectives and indi- cate how they will be achieved? (40 CFR 265.310(b))	1985 E		280
•		<ol> <li>Control of pollution migration via ground water, surface water, and air.</li> </ol>	YES	NO	N/A
-		(2) Control of surface water infiltration, including prevention of pooling.	YES	NO	N/A
		(3) Prevention of erosion.	YES	NO	N/A
*	10.	For land treatment operations, does the post-closure plan address the following objectives and indicate how they will be achieved? (40 CFR 265.280(a))			
.* <sup>2</sup>		(1) Control of migration of hazardous wastes and constituents into the ground water.	YES	NO	N/A
		(2) Control of the release of contaminated runoff into surface water.	YES	NO	N/A
		(3) Control of the release of airborne particulate contaminants caused by wind erosion.	YES	NO	N/A
		(4) Protection of food chain crops.	YES	NO	N/A
*	11.	For landfills and land treatment operations, does the post-closure plan include at least a narrative statement indicating that the following factors were considered in addressing the closure objectives?  (40 CFR 265.280(b), 310(b))			
		(1) Type and amount of waste.	YES	NO	N/A
		(2) Mobility and rate of migration.	YES	NO	N/A
		(3) Site location, topography, and surrounding land use.	YES	NO .	N/A
		(4) Climate, including precipitation.	YES	NO	N/A

	(5) Characteristics of the cover, material, final surface contourness, porosity, permeability, vegetation.	r, thick-	NO	N/A
М	(6) Geological and soil profiles as surface and subsurface hydrological		NO	N/A
.50	(7) Unsaturated zone monitoring.	YES	NO	N/A
	(8) Type, concentration, and depth hazardous constituent migration compared to background concents	n as	NO	N/A
II. OTH	ER REQUIREMENTS			
1.	Does the plan address the requirement for notice to the local land author: (40 CFR 265.119)		NO	
2.	Does the plan address the requirement for notice in the deed? (40 CFR 265)		NO	
3.	Does the plan address the protection maintenance of surveyed benchmarks?	and YES	NO	N/A-
V. COM	MENTS			
	ALTERNATIVE B, p. 12 needs to developed.	Closure pla	in	_
				4224 <u>-</u>
-				
		were amanavatu tar it iti		
85.				
		· · · · · · · · · · · · · · · · · · ·	-	_
•				_
-				_

## MURRIMIEST IN FILL-IN QUANTITIES

## HYHYTHETICAL MAXIMUM THENTORY OF WASTES IN PLAN

	Assembly Assembly Control of the Con	• 22			
			facility Type 114	Facility Type  24	Pacility Type (3
		Stand	(Specify)	(Speciry)	1.11
	Type of waste	(indicate units)	(indicate units)	Total	Total
<b>-</b> -	Haximum amount of undisposed waste requiring pre-treatment				
<b>?</b>	Maximum amount of waste resulting from				
. in	Meximum amount of undisposed casts	*:			
	requiring treatment	8			
÷	Maximum amount or waste resulting from treatment	5			
;	storage prior to disposal				•
	In tanks				0.8
	th surface impoundments				
	in waste piles				
	in drainage pits				
	In containers				
	standing liquids (not included				
	in the estimates above;				
	estimates above				
	liners				
	- leachate				
	other (specify:				
	4				
;	in land breatment files				
	Solial descent and the solial transfer of				
	eround tanks				
	around containers				
	atound treatment facilities				
	from facility decontamination				
÷	(list only if not included in				
	Maximum amount of residues				** 3
	from facility document/				
	GRÀND TOTÁL				
		6			

Use these columns to distinguish among different waste management operations. For example certain types of wastes may be stored in containers prior to being landfilled. To be sure that the closure plan has accounted for all containers, the columns may be used to collect subtotais. Where the plan omitted to count some category or the maximum inventory, please circle the line where the entry should go. Avoid double-counting.

### WORKSHEET IB

CLOSURE PLAN DESCRIPTION OF METHOD OF TREATMENT OR DISPOSAL OF MAINIM INVENTORY OF WASTES! CHECKLIST

			On-Site			Off-Stra		
		Pre-	•					
		Treatment Nethod	Treatment Method	Disposal Method	Remova) Method	Treatment	Disposal	4 6 8
	Type of Waste	De scr i bed?	Described?	Descr ibed?	De scr i bed?	1dent if ied?	fdent it led?	iour identiried?
:	Waste in storage							3
	- de caste of the							
	in drainage pite							
	In containers							
	standing limite (not trained							
	in estimates above							
	sludge (not included in						•	
	estimates above)							
	- linet							
	leachate							
	other (specify:							
•								
;	Contaminated soil							ē
	in land treatment fleids							
	In non-disposal surface							
	Impoundments							
	around tanks							
	around containers							
	around treatment facilities							
	from facility decontamina-							
	included in estimates abovel							
				8				
	Residues							
	from treatment/disposal							
	from facility decontamina-		er.					<b>:</b>
	tion							

## WORKSHEET IC: FILL-IN QUANTITIES

## PLAN FOR REMOVAL, THEATHENT, OR DISPOSAL OF MAXIMUM WASTE INVENTORY

•	FROM FACILITY TYPE (2"	(Specify)	Otf Site Treatment Disposal		1		-				æ		
•	FROM FACIL	(Specify)	Disposal	B									
-	•		On - Trestment			12							
	-:-		of f-site										
	FROM FACILITY TYPE (	Inite	Treat										
	FROM FACI	٠ ١	ite Disposal										
•-			Treatment									3.	
			or r-site										
0	GRAND TOTAL	(Specify)	Treatment				1	1		П	1	1 **	
		ان تقل		1	Į	1							
	GEN		Disposal										
	GIA	(spe	Treatment Disposal									*	
-	GRA		21	Maximum amount of undis posed waste requiring pre-treatment	Maximum amount of waste resulting from pre-	Maximum amount of undisposed waste requiring treatment	Maximum amount of waste resulting from treatment		- in tanks - in surface impoundments - in waste piles - in drainage pits	- in containers		in the estimates above)	leachate other (specify:

## WORKSHEET IC: FILL IN QUANTITIES

# PLAN FOR REMOVAL, TREATHENT, OR DISFOSAL OF HAXIMIM KASTE INVENTORY

							<u> </u>			-	20	-		
**!		its) Ort-Site	Disposal								ě		-	
FROM FACILITY TYPE   24	(Specity)	ndicate units)	Treatment											
FROM FACIL	(Spe	(indication)	Disposal				•							
•		00	Treatment								**			
		of f-Site	Disposal											
FROM FACILITY TYPE   11	(Specify)	0 tr	Treatment											
FROM FACIL	(Specify)	7 17	Disposal											
		On-Site	Treatment											
	•	Site	UI Spogal									.		
GRAND TOTAL	(Specify)	I I .	T C C C L L C L L C L C L C L C L C L C	1										
GRAN	(Spec	ite Dienosal	180000			-								
		On-Site					1					1		
•		Type of Kaste		CO	in land treatment fields	in non-disposal surface impoundments	atound tanks	around treatment	facilities	temination (list only if not included in	estimates above)	Maximum amount of residues from treatment/disposal	from facility decontamination	GRAND TOTAL
		<b>:</b> -ì	•	•						-		~		

### GENERAL COST ESTIMATE CHECKLIST

	▲.	Clos	sure Cost Estimate			
*		1.	Is there a written closure cost estimate? (40 CFR 265.142(a))	YES	NO	
		2.	What is the amount of the closure cost estimate?	\$ 11	0,000	<u></u>
	8	3.	Is there documentation supporting the cost estimate?	YES	NO	99
	•		<ul><li>a. Work-ups?</li><li>b. Contractor bids?</li><li>c. Operating history?</li><li>d. Other</li></ul>	YES YES YES	NO MÔ NO NO	
*	172	<b>4.</b>	Has the cost estimate been adjusted by the 9% inflation factor? (40 CFR 265.142(b))	YES	NO	N/A
	1941	<b>5</b> .	Does the cost estimate cover all the activities in the closure plan including costs of labor?	<b>YE</b> S	NO	
*	-	<b>6.</b>	Does the closure cost estimate cover all required closure activities?  (40 CFR 265.142(a))  If "NO" specify in comments below.	YES	УЖ	
(3)			Comments: AS STATED EARLIER	, G	ROUNI	WATER
			MONITORING DURING CLOSURE É (TOPSOIL É SEEDING) NEEDS TO			
	a -		<u> </u>	<del></del>		
		- -				940

.;

	1.	Is there a written post-closure cost estimate? (40 CFR 265.144(a))	YES ;	NO	NE
	2.	What is the amount of the estimate?	\$		·
	- <b>3.</b>	Is there documentation supporting the post-closure cost estimate?	YES	NO	
		a. Work-ups?	YES	NO	
		b. Contractor bids?	YES	NO	
		c. Operating history?	YES	NO	
		d. Other	YES	NO	
	4.	Is the annual estimate multiplied by 30 to cover to entire post-closure care period? (40 CFR 265.144(b))	YES	NO	
	5.	Has the cost estimate been adjusted by the 9% inflation factor? (40 CFR 265.144(b))	YES	NO	N/£
	6.	Does the cost estimate cover all the	YES	NO	
(#		activities in the post-closure plan (40 CFR 265.118)?	* .		·
		Including labor costs?	YES	NO	
		As well as the requirements of notice to local land authorities and in deeds? (40 CFR 265.119, 265.120)	YES	NO	
	7.	Does the post-closure cost estimate cover all required post-closure activities? (40 CFR 265.144(a)) If "NO" specify in comments below.	YES	NO	
		Comments:			
	π			-	
(€					
	ā			39922 - 3x - 1X	

### CLOSURE COST ESTIMATE VERIFICATION

Does	App:	lies	**	,		*	
Not Apply	In-	Not In- cluded					
			1.	TRE	ATIN	G, DISPOSING OR REMOVING INVENTORY	**
/				<b>A</b> ."	<u>On</u>	Site	
40 CF1	₹ 265.1	12(a)(2)	))		a.	Amount of inventory and residues* to be disposed on site (yd²)  i. From cost estimate  ii. From closure plan  iii. From visual inspection	
	•				ъ.	Unit cost for on site treatment or disposal (\$/yd³) i. From cost estimate	
	84.8				c.	Total cost of on site treatment or disp i. From cost estimate	osal (\$)
				В.	<u>Off</u>	Site	
	<u> </u>	· <b>I</b>	1		a.	disposed off site (yd³)	
	æ			•		<ul><li>i. From cost estimate</li><li>ii. From closure plan</li><li>iii. From visual inspection</li></ul>	305 yd 3
	=				ъ.	Unit cost for off site treatment or disposal (\$/yd³)  i. From cost estimate	
	2.2				c.	Total cost for off-site disposal excluding transportation	19 000

i. From cost estimate

<sup>\*</sup>Residues here refer to residues existing at initiation of closure.

- Does	App]	lies					. 15
Not Apply	In- cluded	Not In- cluded	820 828			•	``
	ja R	9		d.	Unit cost for transport of inventory (\$/yd3/mile) i. From cost estimate		\$ 310/20 ton loc
				e.	Transport distance (miles)  i. From cost estimate  ii. By map reference		-
ě				f.	Cost of transport (\$) i. From cost estimate		
	e*			g.	Cost of off site treatment of disposal including transport i. From cost estimate ii. Inspector calculation		
	·X		c.		al Cost of Treating, Disposing oving Inventory (\$)	z or	
				a.	From cost estimate		



(40 CFR 265.280(c)(1))



### 2. DECONTAMINATION

### A. Soil Excavation

- a. Volume of soil to be removed (yd3)
  - i. From cost estimate
  - ii. From closure plan
- iii. Inspector's estimate

b. Unit cost for soil excavation (\$/yd³)
 i. From cost estimate

305 763

- c. Total cost of contaminated soil excavation (\$)
  - i. From cost estimate

			· · · · · · · · · · · · · · · · · · ·	
Does	Applies			· ,
Apply	Not In- In- cluded cluded			
	Cluded Cluded			
	X	В.	Wastewater Removal	
			<ul> <li>a. Volume of wastewater to be removed (yd³)</li> <li>i. From cost estimate</li> </ul>	
		0	<ul><li>ii. From closure plan</li><li>iii. Inspector's estimate</li></ul>	255 yd 3
			<ul> <li>b. Unit cost for wastewater removal (\$/yd³)</li> <li>i. From cost estimate</li> </ul>	
	***** ,		<ul><li>c. Total cost of wastewater removal (\$)</li><li>i. From cost estimate</li></ul>	1
Х	,	C.	On Site Treatment or Disposal of Contaminated Soil, Wastewater and Residues Generated	<u>l</u> .
	•		During Decontamination	
			<ul> <li>a. Volume of soil, wastewater and residues</li> <li>to be treated/disposed on site (yd³)</li> <li>i. From cost estimate</li> </ul>	2
			ii. From closure plan iii. Inspector's estimate	
			<ul> <li>b. Unit cost for treatment/disposal (\$/yd³)</li> <li>i. From cost estimate</li> </ul>	
			<ul><li>c. Cost of on site treatment/disposal (\$)</li><li>i. From cost estimate</li></ul>	
X		ם.	Off Site Treatment or Disposal of Conta- minated Soil, Wastewater and Residues	
	_ # ##  20		Generated During Decontamination	
	* 9		<ul> <li>a. Volume of soil, wastewater and residues to be treated/disposed off site (yd³)</li> <li>i. From cost estimate</li> </ul>	
			<pre>ii. From closure plan iii. From visual inspection</pre>	•
		_	<del></del>	

a. From cost estimate

Does	<b>Applies</b>		
Apply	i	Not	
1	In-	In-	
	cluded	cluded	

	ъ.	Unit cost for off site treatment/ disposal (\$/yd³) i. From cost estimate	
	c.	Cost of off site treatment/disposal (\$) excluding transportation i. From cost estimate	
	d.	Unit cost for transport (\$/yd3/mile) i. From cost estimate	
	-e.	Transport distance (miles)  i. From cost estimate  ii. By map reference	
	£.	Cost of transport (\$)  i. From cost estimate	n.
	<b>g.</b>	Total cost of off site treatment or disposal including transport (\$)  i. From cost estimate	
E.	Equ	ipment Decontamination	
0	a.	Amount of equipment to be decontaminated (tons)  i. From cost estimate  ii. From closure plan  iii. Inspector's estimate	
	b.	Unit cost for equipment decontamination i. From cost estimate	(\$/ton)
	c.	Cost of equipment decontamination (\$)  i. From cost estimate	1000
F.	Tota	al Cost of Decontamination (S)	

1000



Does	Applies			• • • • • • • • • • • • • • • • • • • •	
Not  Apply	Not In- Cluded cluded		•	<b>3</b> .	,
	X	3.	CER	IFICATION	
(40 CFF	265.115)		A.	Professional Engineer Hours (hrs)	
	*			a. From cost estimate b. From closure plan c. Inspector's estimate	
			В.	Unit Cost for Professional Engineer* (\$/hr  a. From cost estimate	1000 / Vigi
	X .		C.	Total Certification Cost (\$)  a. From cost estimate	3000
		4.	COV	<u>R</u>	*
	X		▲.	Cover Material**	
	R 265.112(a)(4); 30(c)(2))		<del>-</del>	a. Area to be covered (yd²)  i. From cost estimate  ii. From closure plan  iii. From visual inspection	
	а			<ul> <li>Depth of cover material (yd)</li> <li>i. From cost estimate</li> <li>ii. From closure plan</li> </ul>	

iii. Inspector's estimate

<sup>\*</sup>Loaded with costs for support personnel.

<sup>\*\*</sup>Includes materials to be used for cover, for example gravel or clay, except for top-soil.

Does	Applies			
Apply				
	In+ cluded	In- cluded		

	c.	Volume of material to be	
		obtained on site (yd³)	
		i. From cost estimate	
		ii. From closure plan	
		iii. Inspector's estimate	
	đ.	Volume of material to be	
		obtained off site (yd³)	
		i. From cost estimate	
		ii. From closure plan	
		iii. Inspector's estimate	
		•	
	æ.	Unit cost of excavating material	
•		on site (\$/yd³)	
		i. From cost estimate	
	f.	Unit cost of purchasing material	
		off site (\$/yd³)	•
		i. From cost estimate	
	g.	Unit cost of transporting material (\$/yd3/	mile)
	•	i. From cost estimate	
	h.	Transport distance (miles)	
		i. From cost estimate	
		ii. By map reference	
			2.0
	i.	Transport cost (\$)	•
		i. From cost estimate	****
	j.	Total cost of acquiring material (\$)	
	•	i. From cost estimate	<del></del>
	k.	Unit cost of spreading and compacting	
		material (\$/yd³)	
		i. From cost estimate	
			¥
	1.	Cost of spreading and compacting material	(\$)
	-	i. From cost estimate	
		Total cost of acquiring and placing	
		material (\$)	
		i. From cost estimate	

Applies	
	Not
I <del>ri-</del>  cluded	In- cluded
	Int-

		 T-	
	i	i	`\/
ł		- 1	Y
ı			$\Lambda$
i		1	/ \

В.	Top-soil	
	a. Area to be covered (yd2)	
	i. From cost estimate	
	ii. From closure plan	
	iii. From visual inspection	

Ь.	Depth of top-soil, allowing for appropriate grading (yd)
	i. From cost estimate
	ii. From closure plan
	iii. Inspector's estimate
	the state of the s
<b>c</b> .	Volume of top-soil to be obtained on

- site (yd³)

  i. From cost estimate

  ii. From closure plan
- ii. From closure plan
  iii. Inspector's estimate

- d. Volume of top-soil to be obtained off site (yd³)
   i. From cost estimate
  - ii. From closure plan
- a iii. Inspector's estimate
  - e. Unit cost of excavating top-suil on site (\$/yd³)
    - i. From cost estimate
  - f. Unit cost of purchasing top-soil off site (\$/yd³)
     i. From cost estimate
  - g. Unit cost of transporting
    - top-soil (\$/yd³/mile)

      i. From cost estimate
  - h. Transport distance (miles)
    - i. From cost estimate
    - ii. By map reference

- Does Not	Applies	
Apply	ly No	
		In- cluded

		<u>.</u> *	
	i.	Transport cost (\$)  i. From cost estimate	
	j.	Total cost of acquiring top-soil (\$) i. From cost estimate	
	k.	Unit cost of spreading and compacting top-soil (\$/yd3)  i. From cost estimate	
	1.	Cost of spreading and compacting top-soil (\$) i. From cost estimate	=
	10.	Total cost of acquiring and placing top-soil (\$)  i. From cost estimate	
	S	thetic Times and Buffer Material	
C.	эуп	thetic Liner and Buffer Material	
•	a.	Area to be covered (yd²)  i. From cost estimate  ii. From closure plan  iii. From visual inspection	
0	ъ.	Depth of sand* buffer (yd)  i. From cost estimate  ii. From closure plan  iii. Inspector's estimate	
	c.	Volume of sand to be obtained on site (yd <sup>3</sup>	)

ii. From closure plan
iii. Inspector's estimate

<sup>\*</sup>Includes other materials (other than clay and top-soil) which may be used along with the synthetic liner.

.Does	Applies	
Apply	_	Not
	In-	In-
	cluded	cluded

d.	Volume of sand to be obtained off site (yd³ i. From cost estimate ii. From closure plan iii. Inspector's estimate	)
·e.	Unit cost of excavating sand on site (\$/yd3  i. From cost estimate	<b>)</b>
f.	Unit cost of purchasing sand off site (\$/ydi. From cost estimate	3)
g.	Unit cost of transporting sand (\$/yd3/mile)  i. From cost estimate	
h.	Transport distance (miles)  i. From cost estimate  ii. By map reference	9
j.	Total cost of acquiring sand (\$) i. From cost estimate	
k.	Unit cost of spreading and compacting sand (\$/yd²)  i. From cost estimate	
1.	Cost of spreading and compacting sand (\$)  i. From cost estimate	
m.	Total cost of acquiring and placing sand (\$ i. From cost estimate	)
ъ.	Unit cost of acquiring and installing synthetic liner (\$/yd²)  i. From cost estimate	
٥.	Cost of acquiring and installing synthetic liner (\$) i. From cost estimate	
p.	Unit cost of acquiring and installing synthetic liner and buffer materials (\$/yd² i. From cost estimate	

	; ; ·			- 32 -	
Does	Applies				
Not Apply		٠	•	**************************************	•
	-		q	Total cost of acquiring and installing liner and buffer materials (\$)  i. From cost estimate	synthetic
	X		ם. ק	Cotal Cover Cost	
				i. Unit cost of cover (\$/yd²)  i. From cost estimate	
	e*		ŀ	i. Total cost of cover (\$) i. From cost estimate	-
	X	5.	Veget	ation	9
(40 CF) (2)(i	R 265.280(c) i))		Æ	Area in Need of Vegetation (yd²)  1. From cost estimate  2. From closure plan	
	*			. From visual inspection	
			1	Init Cost for Acquiring and Placing Seed, Fertilizer, Etc. (\$/yd2)  1. From cost estimate	
121 (97)			1	Total cost of Acquiring and Placing Seed, Fertilizer, Etc. (\$)  a. From cost estimate	
		]   6.	Othe	r (from cost estimate) (\$)	8
	140 <b>-</b> 20 141 - 20	Ţ		(specify)	\$
ū.	•		-	(specify)	\$
		7.	Tota	al Closure Costs (\$)	
			A. 1	From cost estimate	\$ 110,000

NTS		765			n =	
**************************************	SEE	COMMENTS	ON P	21		
		1111	015			
			/2			
						3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -
	<del></del>					
<del></del>						
1						
					į.	
<del></del>						
		*				
	3.20.0					
						٠

### POST-CLOSURE COST ESTIMATE VERIFICATION

Does Not	App.	lies					
Apply	In-	Not In- cluded				P	
			1.	NSPECTION/FACT	LITY VISITS		
				a. From co b. From po	of professional st estimate st-closure plan or's estimate	level personnel	(hrs/year)
	r.º			personnel*(	or professional (\$/hr) st estimate	level	
					ction/facility v st estimate	isit cost (\$/yea	r)
· · · · · · · · · · · · · · · · · · ·		1	2.	REESTABLISHING	FINAL COVER AND	VEGETATION	
	R 265.1 10(d)(1	.18(a)(2) .))	(i);		red (yd²) est estimate est-closure plan		
					sual inspection		
	*			vegetation	or reestablishin (\$/yd²) est estimate	ng cover and	

a. From cost estimate

C. Reestablishing cover and vegetation cost (\$/year)

<sup>\*</sup>Loaded with costs for support personnel.

-Does	Applies		•	•			
Not Apply	Not   In-	F 52			•		*
	cluded cluded						
	<u> </u>				<b>a</b>	.,	
	<del>, , , , , , , , , , , , , , , , , , , </del>			=_			
		3.	FERTILIZIN	<u>NG</u>	•		
				involved (yd²)			
				rom cost estimate			
				rom post-closure pla		_	
			C. Fi	rom visual inspection	on		
			B. Unit	cost for fertilizing	g (\$/yd²)		
			a. F	rom cost estimate			
	•*		C. Total	fertilizing cost (§	S/Vest)		
				rom cost estimate	,, y Guz )	٠.	
٠		4.	MOWING				3
			A. Area	involved (yd²)			
				rom cost estimate		• —	
				rom post-closure pla		#	
			□ c. F:	rom visual inspection	on.		
	50		B. Unit	cost for mowing (\$/	yd <sup>2</sup> )		
				rom cost estimate		_	
			C. Mowin	g cost (\$/year)	~~		
				rom cost estimate			
	9						
	1	<u>.</u>					
		5.	GROUNDWAT	ER MONITORING AND WI	ELL REPLACEMENT		
(40 CF	R 265.117(a)(1)	))	A. Groun	dwater Monitoring			
	<u> </u>		a. N	umber of wells		· 9	
	×		i	. From cost estimate		_	
	•			i. From post-closu	re plan	_	
			D i	ii. From visual ins	pection	_	N. H.

Does	App	lies			· · · · · · · · · · · · · · · · · · ·	,
Not Apply	In-	Not In- cluded		∂ <b>r</b> ii	*· · · · · · · · · · · · · · · · · · ·	· v
•	£	žš			<ul><li>b. Unit cost for groundwater monitoring (\$/well/year)</li><li>i. From cost estimate</li></ul>	
					<ul><li>c. Groundwater monitoring cost (\$/year)</li><li>i. From cost estimate</li></ul>	
				в.	Well Replacement	
	e.			<u> </u>	a. Average annual number of well replacements i. From cost estimate ii. From post-closure plan iii. Inspector's estimate	
25.	•				<ul><li>b. Unit cost for well replacement (\$/replacement)</li><li>i. From cost estimate</li></ul>	u:
-					c. Cost for well replacement (\$/year)  i. From cost estimate	
				C.	Total groundwater monitoring and well replacement cost (\$/year)*  a. From cost estimate	
			6.	MA	NTAINING AND REPLACING FENCES	
-	265.13 (b)(2)			Δ.	Maintaining Fences	
	*	<b>-</b> -,,			a. Length of fence required (yd)  i. From cost estimate  ii. From post-closure plan  iii. From visual inspection	

<sup>\*</sup>Note in comment section whether well replacement component is on annual basis or not.

- Does	Applies			10. 41	
Apply	Not   Th-   In-  cluded   cluded			la <b>t</b>	*
			<ul><li>b. Unit cost for maintaining f</li><li>i. From cost estimate</li></ul>	ences (\$/yd)	
			c. Cost for maintaining fences i. From cost estimate	(\$/year)	
		В.	Replacing Fences	7,	
	er'		<ul> <li>a. Length of fence to be repla annually* (yd)</li> <li>i. From cost estimate</li> <li>ii. From post-closure plan</li> <li>iii. Inspector's estimate</li> </ul>		
an USO			<ul> <li>b. Unit cost for fence replace</li> <li>i. From cost estimate</li> <li>c. Cost of fence replacement (</li> <li>i. From cost estimate</li> </ul>	• 8	
	2.5	c.	Total Maintaining and Replacing  a. From cost estimate	; Fences Cost	(\$/year)**
		7. <u>COI</u>	LECTING, REMOVING AND TREATING I		
(40 CF	TR 265.310(d)(2		a. From cost estimate b. From post-closure plan		

<sup>\*</sup>Total length of fence to be replaced over the entire post-closure period divided by 30 to obtain an annual average.

<sup>\*\*</sup>Note in comment section whether fence replacement component is on annual basis or not.

Does Not	Appli	es					
pply	I <del>n-</del>	Not In- luded	微	*		~** <b>1</b>	
	40						
	-	į		В.	0ff	Site Disposal	
					a.	Amount of leachate removed to off site disposal facility (gal./year)  i. From cost estimate  ii. From post-closure plan	·
	•••				ъ.	Unit cost for off site leachate disposal (\$/gal.)  i. From cost estimate	
					c.	Unit cost for transport of leachate (\$/gal./mile) i. From cost estimate.	
•	) a.	(8			d.	Transport distance (miles)  i. From cost estimate  ii. From post-closure plan  iii. By map reference	
					·e.	Cost of transport (\$/year)  i. From cost estimate	
					f.	Total cost of off-site treatment/ disposal of leachate (\$/year) i. From cost estimate	8
				c.	On.	Site Disposal	
	WAS .				a.	Amount of leachate disposed of on-site i. From cost estimate ii. From post-closure plan	(gal.)
		V			<b>b.</b>	Unit cost of on site leachate disposal i. From cost estimate	(\$/gal.)
æ			34		c.	Cost of on-site leachate disposal (\$/yei. From cost estimate	ear)

		1				
Does	<b>Applies</b>			<b>9</b>		
Not  Apply	Not In- In- cluded cluded		*		•	•
			D.	Total Collecting, Removing of Leachate Cost (\$) a. From cost estimate	g, Treating and Dispo	osal
-		8.	Admi	inistrative		
			Δ.	Hours of management time the post-closure plan (hr a. From cost estimate b. From post-closure plac: Inspector's estimate	rs/year) —	er -
			В.	Unit cost for management : a. From cost estimate	time* (\$/hr)	
	i <sup>2</sup> ja		C.	Total administrative cost a. From cost estimate	: (\$/year) —	
Š		] 9.	Oth	er (specify) (\$/year)	_	-
	R 265.119)	1	A. B. C. D. E.	Local land authority noti Notice in deed (\$/year)  (Total Other)	ice (\$/year)	
		] 10.	Tot	al Annual Post-Closure Cos	sts (\$)	
	124 - 124 24	`	a.	From cost estimate	<del>-</del>	

<sup>\*</sup>Loaded with costs for support personnel.

•

COMMENTS				_	<b>*</b>	
	<b>↓</b>			-	·	
		-			F 8	
		*.20			-	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		, , , , , , , , , , , , , , , , , , , ,				
	<u>•*</u>	<del></del>				<del></del>
5						
•	•	<del></del>	<del></del>			
				·	<del></del>	
			•			
				### None ## 70 10		
is a				4		
				쉳		
61 - 10 3				<del></del>		
		•	2	W-2		· · · · · · · · · · · · · · · · · · ·
					to the second se	
	•					
			1122			

INTERIM STATUS COMPLIANCE CHECKLIST

FACILITY Loss McCee
LOCATION Colombus Ms.

DATE 5/25/85
INSPECTORS Down Mrchan

MeT with Bob BoisseAU - Plant Superintendon

SUBPART B - GENERAL FACILITY STANDARDS

### 265,12 Required Notices

- a) The facility owner or operator must notify the Director at least four weeks in advance of receipt of wastes from a foreign source.
- b) Before transferring ownership or operacion of a facility, the facility's
  owner or operator must notify the new
  owner or operator of the requirements
  of 40 CFR 265 and 122.

Ċ,

## 265. 13 General Waste Analysis .

Before treating, storing, or disposing of haardous waste, the facility owner or operator must obtain a detailed chemical and physical analysis of wastes. The analysis must contain all the information which must be known to treat, store, or dispose the waste in accordance with the federal requirements.

- .05.14 Security to Prevent Unknowing and Unauthorized Access to the Facility
- The owner or operator must prevent the unknowing entry and minimize the possibility for unauthorized entry unless;
- physical contact with the waste, structures, or equipment will not be injurious
- 2) disturbance of the waste or equipment will not violate the requirements of Part 265.

In compliance - Yes

Not in compliance - No

Not applicable - NA

Yes

No N/A

COMMENTS

each with 8/21/80.

- or 402.7-14(a)(2), a facility must have:
- じ a 24-hour surveillance system
- 2) (±) an artificial or natural barrie active portion of the facility which completely surrounds the
- (11) a means to control entry
- ೦ A sign warning of the danger of intruding into the facility.

### 265.15 Inspection and Monitoring

- a) of hazardous waste constituents to which may be causing or lead to release health. the environment or a threat to human ioration, operator errors, or discharge the facility for malfunctions and deter-The owner or operator must inspect
- The owner or operator must develop and follow a schedule and plan for inspections.
- င imminent. ment and structures when a hazard is function or the deterioration of equipal action upon the detection of mal-The owner or operator must take remedi-
- <u>a</u> must keep the records for at least three years from the date of inspection spections in an inspection log and The owner or operator must record in-

265.17 - Continued--

quantities to threaten human.health;

- Produce uncontrolled flammable fumes to pose a risk of fire or explosions; or gases in sufficient quantities
- 2 waste; or the device or facility containing Damage the structural integrity of
- human health or the environment. Through other like means threaten

# SUBPART C - PREPAREDNESS AND PREVENTION

controlled by the State. and prevention of releases of hazardous waste lities must be maintained and operated for Pursuant to 265:30 through 265,37, faci-

### SUBPART D - CONTINGENCY PLANS

contingency plans and emergency procedures Pursuant to 265.56, facilities must have hazardous waste. be followed in the event of a release

### SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

- 265.71(a)(1-5) If a facility receives the requirements of fest, the owner or operator must meet hazardous waste accompanied by a mani-265.71(a)(1-5)
- 265.71(b)(1-5) If a facility receives, ator must meet the requirements of by a shipping paper, the owner or operhazardous waste which is accompanied from a rail or water transporter, 265.71.

Not in compliance - No Not applicable - NA o N N/A

265.72(a) Upon discovery of significant

Not in compliance - No In compliance - Yes

Yes No

Not applicable - NA N/A

or operator must notify the Director. crepancy is not resolved, the owner or transporter. the discrepancy with the waste generator operator must attempt to reconcile manifest discrepancy, the owner or **E** If a significant manifest dis-

265.73(b) The owner or operator, must keep a written operating record at the facilitywhich meets the requirements of 265.73(b).

265.74(a) All records must be furnished upon request and available at all times for inspection by the Director or EPA.

the facility. be submitted to the Director and the posal locations and quantities must local land authority upon closure of <u></u> A copy of records of waste dis-

265.75 compliance with the requirements of an annual report to the Director in The owner or operator must submit

· .. ..

265.76 waste must be reported The receipt of any unmanifested to the Director

26577 The owner or operator must submit a report to the Director if any of the following occur:

releases; fires, explosions

**b a** groundwater contamination

facility closure.

COMENTS

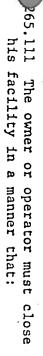
## SUBPART F - GROUNDWATER MONITORING

265.90 within one year of the effective date of 265.90. on the quality of the upper aquifer of determining the facility's impact groundwater monitoring program capable Owner or operator must implement a

a groundwater monitoring system which must install, operate, and maintain meets the requirements of 265.94. 265.94 The owner and operator 265,91 -

265.90(c) wells or to surface water. below the facility to water supply the facility via the uppermost aquifer of hazardous waste constituents from there is a low potential for migration owner or operator can demonstrate that ing requirements may be waived if the All of the groundwater monitor-

## SUBPART G - CLOSURE AND POST-CLOSURE



- tenance, and minimizes the need for future main-
- post-closure escape of hazardous 2) controls, minimizes, or eliminates
- 265.112(a) effective date of Part 265. have a written closure plan on the The owner or operator must

Yes Not applicable - NA Not in compliance - No In compliance - Yes

=

COMMENTS

N<sub>O</sub>

265:112(a) Continued--

The closure plan must include:

 A description of how and when the facility will be partially closed, if applicable, and ultimately closed.

- 2) An estimate of the maximum inventory of wastes in storage or treatment at any given time.
- 3) Steps to decontaminate facility equipment.
- 4) A schedule for final closure which must include, as a minimum, anticipated dates when wastes will no longer be received, anticipated date for completion of final closure, and intervening milestone dates.
- 265.113(a) .Closure must be initiated within 90 days after receiving the final volume of hazardous wastes.
- (b) The owner or operator must complete closure activities within six months after receiving the final volume of wastes.
- 265.114 Upon completion of closure, all equipment and structures must be properly disposed of or decontaminated.
- 265.115 The owner or operator and an independent registered professional engineer must certify that the facility has been closed in accordance with the approved closure plan.

In compliance - Yes

Not in compliance - No

Not applicable - NA

Yes No N/A

COMMENTS

265.117(a) Post closure care must consist of at least:

- Groundwater monitoring
- system. 2) Maintenance of the contaminant

date of Part 265 and it must include: a post-closure plan on the effective The owner or operator must have

- and frequency. Groundwater monitoring activities
- cap, final cover, or other containment cies to ensure the integrity of the structures, and functions of the faci-Maintenance activities and frequenlities monitoring equipment.
- 265.119 the owner or operator must submit a survey plat of the facility. Within 90 days after closure,
- 265.120 a notice on the deed that the land has been used to manage hazardous waste The owner or operator must record

## SUBPART H - FINANCIAL REQUIREMENTS

265.142(a) of closure and post-closure costs. develop and maintain a current estimate The owner or operator must

## SUBPART I - OTHER FACILITY STANDARDS

265:170 be compatible with the waste to be stored. 265.172 The container must

> Not applicable - NA Not in compliance - No In compliance - Yes No N/A

COMMENTS

Possumption That tacility will elean Close

No

N/A COMMENTS

265.173 opened, handled, or stored in a manner must be kept closed and must not be which may cause a rupture or leak. Containers holding hazardous waste

265.174 must be inspected weekly. . Areas where containers are stored

265.176 Containers holding ignitable or reactive waste must be located at least 15 meters from the facility's property

265.177(a) Incompatible wastes must not be placed in the same container.

with any waste or other materials stored nearby must be separated or protected a hazardous waste that is incompatible from the other materials. 9 A storage container holding

### SUBPART J - TANKS

265.192(b) or its liner to leak. in a tank if they could cause the tank Hazardous waste must be placed

- or exceeds the volume of the top two feet of the tank. structures with a capacity that equals control system, or other diversion other containment structures, a drainage least two feet of freeboard unless Uncovered tanks must have a
- means to stop the inflow. feed system must be equipped with a (d) Tanks which have a continuous

purs	265,193
pursuant to	Waste a
265.13,	analysis
3, and	must be
265.193(a).	_

- 265.194 Tanks must be inspected in accordance with 265.194.
- 265.197 At closure, all hazardous waste and hazardous waste residues must be removed from the tanks.
- 265.198 Ignitable or reactive waste should not be placed in a tank unless 265.
- 265.199 Incompatible wastes must not be placed in the same tank unless 265. 176 is complied with.

÷.

## SUBPART K - SURFACE IMPOUNDMENTS

- 265.222 Must maintain at least two fect of freeboard.
- 265.223 Earthen dikes must have protective cover.
- 265.225 Must conduct waste analyses and trial tests in accordance with 265. 225.
- 265.226(1) Must inspect the freeboard level at least once each operating day.
- (2) Must inspect the surface impoundment at least once a week to detect any leaks, deterioration, or failure.
- 265.228 The surface impoundment must close in accordance with 265.228.

Not applicable - NA

265.229 urless not be placed in a surface impoundment Ignitable or reactive waste must 265.229 is complied with.

265,230 Incompatible wastes must not be unless placed in the same surface impoundment 265:17(b) is complied with.

### SUBPART L - WASTE PILES

265.251 and managed to control wind dispersal. A waste pile must be protected

265.252 meets the exemptions of waste analyses unless the facility An owner or operator must conduct 265,252.

265.253 Within one year after the effective date of the regulations, be controlled pursuant to leachate or run-off from a pile must 265,253.

265.256 not be placed in a waste site unless 265.256 is complied with. Ignitable or reactive waste must

265.257 The requirements of incompatible wastes must be complied 265.257 for

### SUBPART M - LAND TREATMENT

265.272(a) Hazardous waste must not be or non-hazardous. unless it can be made less hazardous placed at a land treatment facility

year after the effective date of Part from other active portions as of one Run-on must be diverted away

Yes N 0 Z/N

**1** .:

265.272 -- Continued

- must be collected as of one year after the effective date of Part 265 ... Run-off from active portions
- 265,273 Waste analyses must be conducted pursuant to 265,273.
- 265.276(a) An owner or operator must notify treatment facility. food chain crops are grown on the land the effective date of Part the State Director within 60 days after 265 <u>e</u>.
- ous waste land treatment facility ungrown on the treated area of a hazard-1ess 265.276(b) is complied with. Food chain crops must not be
- unless grown on a land treatment facility receiving waste that contains cadmium Food chain crops must not be 265.276(c) is complied with.
- 265.278 The owner or operator must have saturated zone monitoring plan pursuant in writing and must implement an un-265.278.
- 265.279 tion of each hazardous waste placed in a facility. lication rates, quantities, and locarecords of the application dates, app-The owner or operator must keep
- 265.280 meet the closure and post-closure requirements of 265.280. A land treatment facility must

Not applicable - NA Not in compliance - No N/A

COMMENTS

ر ا

1

`\ ,† .:

me companion

Yes

No

265.281 Ignitable or reactive waste must lity unless not be placed in a land treatment faci-265.281 is complied with.

265.282 Incompatible wanten must not be unless placed in the same land treatment area 265.17(b) is complied with.

### SUBPART N - LANDFILLS

- 265.302(a) year after the effective date of Part from the active portions within one Run-on must be diverted away
- must be collected within one year after the effective date of Part Run-off from active portions
- Must control wind dispersal.
- 265.309 quirements of the surveying and recordkeeping re-The owner or operator must meet 265.309.
- 265.310 sure and post-closure requirements of 265.310. A landfill must comply with clo-
- 265\_312 not be placed in a landfill unless 265.312 is complied with. Ignitable or reactive waste must
- 265313 Incompatible wastes must not be placed in a landfill unless 265. 17(b) is complied with.
- 265.314 Bulk or non-containerized liquid should not be placed in a landfill or containers holding liquid waste waste, waste containing free-liquids, unless the requirements of 265.314

÷.

COMMENTS

HOL TH COMPATHE

CAL TREATMENT	SUBPART Q - CHEMICAL.
	PHYSICAL,
	B
•	BIOLOGI-

- 265,401(a) Must comply with 265. 17(b)
- (b) Hazardous waste must not be placed in the treatment process or equipment if any failure of equipment or the process would occur.
- (c) A continuously-fed process must be equipped with a means to stop the inflow.
- 265.402 Waste analyses and trial tests must be conducted pursuant to 265. 402.
- 265.403 Inspections must be made pursuant to 265.403.
- 265.404 At closure, all hazardous waste and hazardous waste residues must be removed.
- 265.405 Ignitable or reactive waste must not be placed in a treatment process unless 265.405 is complied with.
- 265,406 Incompatible wastes must not be placed in the same treatment proces unless 265.17(b) is complied with.

## SUBPART R - UNDERGROUND INJECTION

265.430(a) underground injection of hazardous waste is not subject to the closure and post-closure or financial requirements of Part 265. Underground injection is subject to the other requirements of Part 265.

					Are there any other generators transporting their waste to this hazardous waste manage-	REQUIREMENT Other questions or standards.
			ë,			Not Yes
-					<u></u>	applicable - 1
						N/A - NA
		4		9		COMMENTS
						= =
• •						

### CLOSURE AND POST-CLOSURE COMPLIANCE REVIEW CHECKLIST

I.		CILITY INFORMATION
	EPA ID #	MSD 990 866329
	Address	Ker ms Gee
		Colombes
	Owner	
		(name and phone number)
	Operator	
		(name and phone number)
	Name of Fa	cility
	Date & Tim	e of Inspection
	Personnel	Present
	Revi	in performed in office ex x result
	o t	6/11/8x sbmittal
	1,	
	# <u>************************************</u>	
	Se <del>- 4</del>	
	Notes:	

Jef Hum-8 7/12/84.

### Type of Facility (check all that apply/fill-in blanks)

ㅁ꺄	V	Storage	Treatment	<u></u>	Disposal	
			Active	Inact	ive	Planned
		Containers	<u> </u>	, , ,		
			98	(number and	volume)	
		Tanks	,	(1		
				(number and	volume)	
		Piles		number and	rrolumo)	
			'	THE ISCHIDIT,	vorume)	
		Incinerator	(98)	lons or tor	s per hour)	<del></del>
			(6		o por mour,	
	<del></del>	Landfill	<del> (</del>	acres and v	volume)	<del></del>
0		Land Treatment				
_		· hand freatment	(	acres and v	olume)	· · · · · · · · · · · · · · · · · · ·
_		Surface	Ser.	Part A		
		Impoundment	(	acres and v	olume)	
<b>-</b>		Chemical/Physical/				
		Biological Treatmen	t (gal	lons or tor	s per hour)	
	÷3	Thermal Treatment				
			(ga]	lons or tor	s per hour)	
<b>-</b>		Underground			8	
		Injection	(non	inal operat	ing rate)	

Describe tank and container conditions (e.g., age, remaining surface life, etc.) in Comments section.

<sup>\*</sup>Checkboxes indicate items to be reviewed during on-site visit.

### WRITTEN PLAN

II.	WRIT	TEN PLAN			
*	1.	Is there a WRITTEN CLOSURE PLAN kept at the facility? (40 CFR 265.112(a))	YES	NO	
	2.	Does the closure plan cover all areas and facilities that were ACTIVE as of 11/19/80?	YES	NO	
	3.	Does the closure plan include general information about the facility which would be helpful in reviewing the plan, including:			
-		<ul> <li>a. facility size(s)</li> <li>b. facility type(s)</li> <li>c. descriptions of all on-site equipment</li> <li>d. topography</li> <li>e. waste characterization</li> <li>f. soil type</li> <li>g. description of surrounding land use</li> <li>h. surrounding population</li> <li>i. size of facility (acres)</li> <li>j. volume of impoundment</li> <li>k. type(s) of treatment/processing</li> <li>l. description of liner</li> <li>m. leachate collection system</li> <li>n. gas collection system</li> <li>o. dredging procedures/schedules, etc.</li> <li>p. incinerator specifications</li> <li>q. other (specify</li></ul>	YES YES YES YES YES YES YES	00 00 00 00 00 00 00 00 00 00 00 00 00	N/A N/A N/A N/A N/A N/A
III.	MAXI	MUM EXTENT OF OPERATION			
*	1.	Does the plan identify the MAXIMUM EXTENT OF OPERATION which will be unclosed during the life of the facility? (40 CFR 265.112(a)(1))	YES	NO	
0	2.	Is the MAXIMUM EXTENT OF OPERATION estimate exceeded by current operations.	YES	NO	)
0	3.	Does the MAXIMUM EXTENT OF OPERATION estimate include:			
		a. the maximum area of landfill or land treatment ever containing wastes?	YES	NO	N/A
		b. inactive areas open because of	YES	NO	N/A
		operating problems or contingencies?  c. maximum area of land ever used for land spreading?	YES	NO	N/A

		d.	the most extensive treatment required for land spreading?	YES	NO	N/A
		e.	the maximum area used for storage?	YES	NO	N/A
		Expl	ain each "NO" answer in comment section.			
IV.	PART	TIAL C	LOSURE			
*	1.	PART	the plan identify the steps for IAL CLOSURE, at any time during the nded operating life, of			
		d.	<pre>surface impoundments? landfills? tanks? other (specify:)</pre>	YES YES YES YES	NO NO NO	N/A N/A N/A
		IF N	CFR 265.112(a)) O PARTIAL CLOSURE PLAN, CIRCLE N/A AND TO SECTION V.	st.		
	2.	Does	the PARTIAL CLOSURE plan identify			
5		a. b. c.	the size of areas partially closed? procedures for partial closure? maintenance program? frequency of partial closures?	YES YES YES YES	NO NO NO NO	N/A
		а. е.	source of cover materials?	YES	NO	N/A
<b>D</b>	3.	demo	the plan for PARTIAL CLOSURE nstrate the adequacy of the cap, to meet the closure requirements?	YES	NO	
			<u>OR</u>	10		
		incl	these areas or activities otherwise uded in the extent of operations of closure plan?	YES	NO	
	4.	main	the PARTIAL CLOSURE PLAN describe tenance <u>activities</u> for partially ed areas, including:			
		a. b. c. d. e. f. g. h.	visual inspections? ground-water monitoring? maintaining cover? maintaining diversion structures? controlling erosion? maintaining vegetation? security requirements? leachate collection? gas collection?	YES	NO NO NO NO NO NO NO	N/A N/A N/A

5.	Does	the	PART	'IAL	CLOSURI	E PL	١N	descri	be
	maint	tenar	nce <u>f</u>	requ	encies	for	рa	artiall	y
	close	ed as	ceas,	inc	luding	:			

	a. visual inspections?	YES	NO	N/A
	b. groundwater monitoring?	YES	NO	N/A
	c. maintaining the cover?	YES	NO	N/A
	d. maintaining diversion structures?	YES	NO	N/A
	e. controlling erosion?	YES	NO	N/A
	f. maintaining vegetation?	YES	NO	N/A
	g. security requirements?	YES	NO	N/A
	h. leachate collection?	YES	NO	N/A
	<pre>i. gas collection?</pre>	YES	NO	N/A
6.	Is there a SCHEDULE FOR PARTIAL CLOSURE	? YES	NO	

### If "NO" SKIP TO SECTION V. 7. Does the SCHEDULE FOR PARTIAL CLOSURE

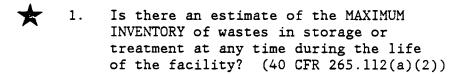
	Incl	ide:				
*	а.	date(s)	of	partial	closure(s)?	

*	a.	<pre>date(s) of partial closure(s)?</pre>	YES	NO
		(40 CFR 265.112(a)(1))		
	b.	total time required for each	YES	NO
		partial closure?		

c.

Part.	iai Closule:			
time	required for key steps			
i.	waste removal?	YES	NO	N/A
ii.	waste stabilization?	YES	NO	N/A
iii.	waste treatment?	YES	NO	N/A
iv.	waste disposal?	YES	NO	N/A
v.	placement of cover?	YES	NO	N/A
vi.	vegetation?	YES	NO	N/A
vii.	decontamination?	YES	NO	N/A
viii.	other (specify:)	YES	NO	

### MAXIMUM INVENTORY



NO N/A

Does the MAXIMUM INVENTORY estimate include the maximum amount of on-site wastes:

> requiring pre-treatment? a:

b. requiring treatment?

requiring disposal?

(YES)	NO	N/A
YES!	NO	N/A
YES	NO	N/A

0	3.	Does the MAXIMUM INVENTORY estimate			
		include the maximum amount of on-site:			
_			(VIDA)	110	
0		<ul><li>a. wastes in surface impoundments?</li><li>b. wastes in partially-closed non-disposal</li></ul>	YES	NO	N/A
			YES	NO	N/A
_		<pre>surface impoundments? c. wastes in tanks?</pre>	W.C.	(30)	AT 7.4
0			YES	NO	N/A
		•	YES	NO	N/A
		e. wastes in drainage pits? f. wastes in containers?	YES	NO	N/A
_		- · · · · · · - · - · · · · · · · · · ·	YES	NO	N/A
0		g. standing liquids?	YES	NO	N/A
		h. sludge? i. contaminated soil from land	YES	NO	N/A
		· · · · · · · · · · · · · · · · · · ·	YES	NO	N/A
		treatment fields?	W.C.	NO	
<u></u>		j. contaminated soil and liners from	YES	NO	N/A
		non-disposal impoundments?  k. contaminated soil from around	W.C	NO	
Ü			YES	NO	N/A
		tanks, containers, piles? 1. process residues?	VEC	NO	NT / A
0		m. decontamination residues?	YES	NO NO	N/A
		m. decontamination residues:	IES)	NU	N/A
	4.	Does the plan discuss the type(s) of			
		TESTING AND CRITERIA to be used to			
		determine:			
		a. whether soil is contaminated?	YES	NO	N/A
		b. whether decontamination residues	YES	NO	N/A
		are hazardous?			•
		c. whether process residues are	YES	NO	N/A
		hazardous?			
	5.	Are INCOMPATIBLE WASTES identified	YES	NO	N/A
		and provisions described for keeping	-20		
		them separate during closure?			
VI.	FINA	AL CLOSURE			
	- 4.14				
	1	Does the plan clearly identify the			

Does the plan clearly identify the STEPS TO CLOSE

$\star$	a.	at any point during the intended	(YES)	NO
		operating life? (40 CFR 265.112(a))		
*	b.	at the end of the intended	YES	NO
		operating life? (40 CFR 265.112(a))		

	2.	Do the STEPS TO CLOSE in the plan include:			
	* *	<ul> <li>a. removal of wastes? (40 CFR 265.113(a))</li> <li>b. treatment of wastes? (40 CFR 265.113(a))</li> <li>c. waste disposal? (40 CFR 265.113(a))</li> <li>d. waste containment?</li> </ul>	YES YES YES	NO NO NO	N/A N/A N/A
	*	e. cover? (40 CFR 265.310(b))	YES	NO	N/A
	*	f. decontamination of equipment and structures? (40 CFR 265.112(a)(3))	MES	NO	N/A
	_	<ul><li>g. groundwater monitoring?</li><li>h. closure certification? (40 CFR 265.115)</li></ul>	YES	NO NO	N/A
	*	<ul><li>h. closure certification? (40 GFR 265.115)</li><li>i. maintenance of leachate program?</li></ul>	YES	NO	NA
		j. maintenance of gas collection	YES	NO	N/A
		program?			
		k. security requirements?	YES	NO	N/A
0	3.	With respect to the REMOVAL, TREATMENT, OR DISPOSAL of waste, does the plan identify:			
		a. the source and type of materials	YES	NO	
		and equipment needed?	YES	NO	
		<ul><li>b. the amount of labor required?</li><li>c. the capacity, number, and location</li></ul>	YES	NO	N/A
		c. the capacity, number, and location of trenches or cells needed?			
		d. the area required for landspreading?	YES	NO	N/A
D	4.	Does the plan describe the CONTAINMENT of waste, including:			e.
	*	<pre>a. placement of final cover:   (40 CFR 265.280(c)(2); 265.310(a))</pre>			
	*	<pre>i. characteristics of cover?      (40 CFR 265.280(c)(2)(ii);      265.310(a)(5))</pre>	YES	ОИ	N/A
	*	ii. design of cover including final surface contours?  (40 CFR 265.280(c)(2)(ii);	YES	NO	N/A
		265.310(a)(5))			
		iii. installation procedures?	YES	NO	N/A
	*	b. drainage and diversion structures? (40 CFR 265.280(c)(3),(4))	YES	NO	N/A`

All wate to be reposed +
Therefore, atthough proposing find cour, not a
Layardors wate empowdown often downe Not closing as a landful

1

, ,

	c.	veget	ation program:			
*		i.	<pre>characteristics of vegetation? (40 CFR 265.280(c)(2)(ii);</pre>	YES	NO	N/A
		ii.	265.310(a)(5)) soil preparation?	YES	МО	N/A
*	d.		ion control: CFR 265.310(b)(3))			
		i. ii.	<pre>type of materials? amount of materials?</pre>	YES	NO NO	N/A N/A
*	e.	addre indi	landfills, does the closure plan ess the following objectives and cate how they will be achieved?  CFR 265.310(b))			
		(1)	Control of pollution migration from the facility via ground water, surface water, and air.	YES	NO	N/A
		(2)	Control of surface water infiltration, including prevention of pooling.	YES	NO	N/A
		(3)	Prevention of erosion.	YES	NO	N/A
*	f.	the obje	land treatment operations, does closure plan address the following ctives and indicate how they will chieved? (40 CFR 265.280(a))			
		(1)	Control of migration of hazardous wastes and constituents into ground water.	YES	NO	N/A
		(2)	Control of the release of contaminated run-off into surface water.	YES	NO	N/A
		(3)	Control of the release of airborne particulate contaminants caused by wind erosion.	YES	МО	N/A
		(4)	Protection of food chain crops.	YES	NO	N/A

★ g. For landfills and land treatment operations, does the closure plan include at least a narrative statement indicating that the following factors were considered in addressing the closure objectives? (40 CFR 265.280(b), 310(b))

(1)	Type and amount of waste.	YES	NO	N/A
(2)	Mobility and rate of migration.	YES	NO	N/A
(3)	Site location, topography, and surrounding land use.	YES	NO	N/A
(4)	Climate, including precipitation.	YES	МО	N/A
<b>(5)</b>	Characteristics of the cover, including material, final surface contour, thickness, porosity, permeability, slope, vegetation.	YES	NO	N/A
(6)	Geological and soil profiles and surface and subsurface hydrology.	YES	NO	N/A
(7)	Unsaturated zone monitoring.	YES	NO	N/A
(8)	Type, concentration, and depth of hazardous constituent migration as compared to background concentrations.	YES	NO	N/A

5. Does the plan describe the DECONTAMINATION (40 CFR 265.112(a)(3); 265.114) of facility equipment and structures, including:

a.	a list of equipment, containers, and structures requiring disposal	YES	NO	N/A
ъ. с.	or decontamination? decontamination procedures? method of treatment or disposal	YES	NO NO	N/A N/A
d	of residues? testing program?	YES	NO	N/A

0	6.	With respect to MONITORING, does the closure plan describe:			
		a. details of the groundwater monitoring program during closure?	YES	NO NO	N/A
		<ul><li>b. soil testing and monitoring</li><li>c. maintenance of monitoring equipment</li></ul>	YES (	NO	N/A
		during closure? d. other (specify: pryore part close	YES	NO	
	_	With respect to CERTIFICATION of closure	YES	NO	
*	7.	(40 CFR 265.115), does the closure plan describe scheduled or estimated number of inspections?			
	8.	If a system for COLLECTING LEACHATE is			
		present, does the closure plan:  a. describe leachate removal, treatment,	YES	NO	N/A
		<ul><li>and disposal during closure?</li><li>b. identify the approximate volume of</li></ul>	YES	NO	N/A
		leachate collected?  c. provide for maintenance of the leachate collection system during closure?	YES	МО	N/A
0	9.	If a GAS COLLECTION SYSTEM is required during operation, does the closure plan:			
		a. describe procedures for collecting	YES	NO	N/A
		<pre>gas during closure? b. describe monitoring samples and analysis during closure?</pre>	YES	NO	N/A
		c. maintenance of gas collection system during closure?	YES	NO	N/A
	10.	<pre>If SECURITY (i.e., fencing) is required, does the closure plan:</pre>			
		a. describe the maintenance of security equipment during the closure period?	YES	МО	N/A
		b. describe the installation of appropriate equipment at closure?	YES	NO	N/A
a		c. state the dimensions of the fence and the area to be enclosed?	YES	NO	N/A

### FINAL CLOSURE: SCHEDULE

Does the plan identify the YEAR when final closure is expected to occur? (40 CFR 265.112(a)(4))

YES

NO

What is the expected year of closure?

NO

Is there a SCHEDULE for final closure activities? (40 CFR 265.112(a)(4))

IF "NO" SKIP TO COMMENTS SECTION.

Does the SCHEDULE for final closure include: 3.

date closure is expected to begin?  $\star$ a. (40 CFR 265.112(a)(1))

NO

total time required to close? ъ. (40 CFR 265.112(a)(4))

NO

the time for intervening closure c. activities? (40 CFR 265.112(a)(4)) NO

time required for key steps: d.

waste inventory treatment? (40 CFR 265.112(a)(4))

NO N/A

waste inventory disposal?

iv.

ix.

(40 CFR 265.112(a)(4))

NO N/A N/A NO

N/A

N/A

N/A

removal of waste inventory iii. and residues?

decontamination of facility equipment and structures?

NO

install containment and

diversion structures? placement of final cover?

NO N/A

NO

NO

vi. (40 CFR 265.112(a)(4))

planting vegetation? vii.

closure certification? viii. other (specify:

NO NO

Does the SCHEDULE for final closure:

encompass more than 90 days for treatment, removal, or disposal of hazardous wastes after receipt of final volume of wastes? (40 CFR 265.113(a))

NO

b. encompass more than 180 days for completion of closure plan activities after receipt of final volume of wastes? (40 CFR 265.113(b))

(YES)	NO

### VIII. COMMENTS

Clarke could take Generally from
date of celmital of plan - hower, sine
be und as through administration servicing
should be completed with regular tim print.
_ Of way a feet conjugate of the conjuga

### POST-CLOSURE PLAN CHECKLIST

I.	WRIT	TEN PLAN			
*	1.	Is there a written POST-CLOSURE PLAN at the facility? (40 CFR 265.118(a)) If answer is "N/A" skip to cost estimate checklists.	YES	NO	N/A
	2.	Does the post-closure plan cover the MAXIMUM AREA EXPECTED TO CONTAIN HAZARDOUS WASTE after closure, including:			
		<ul><li>a. landfills?</li><li>b. disposal surface impoundments?</li><li>c. land treatment facilities where hazardous waste will remain?</li></ul>	YES YES YES	NO NO	N/A N/A N/A
		d. other remaining hazardous wastes?	YES	NO	N/A
*	3.	Does the post-closure plan provide for 30 years of post-closure care? (40 CFR 265.117(a))	YES	NO	
*		<ul> <li>How many years of post-closure care?</li> </ul>			
	4.	Does the post-closure plan cover all areas where hazardous waste will remain that were active as of 11/19/80?	YES	NO	WA
II.	SPEC	CIFIC POST-CLOSURE PLAN REQUIREMENTS			
*	1.	Does the plan clearly identify the ACTIVITIES required in post-closure care? (40 CFR 265.118(a))	YES	NO	
*	2.	Does the plan clearly identify the FREQUENCIES for post-closure activities? See also Question 5. (40 CFR 265.118(a))	YES	NO	
*	3.	Do the GROUNDWATER MONITORING plans (40 CFR 265.117(a)(1); 265.118(a)(1)) include:			
		<ul> <li>a. number of wells?</li> <li>b. sample collection activities?</li> <li>c. sample collection frequencies?</li> <li>d. sample test activities?</li> <li>e. sample test frequencies?</li> <li>f. replacement of failed wells?</li> </ul>	YES YES YES YES YES	NO NO NO NO NO	N/A

	4.	Is t AND	here a copy of the GROUNDWATER SAMPLING ANALYSIS PROGRAM attached to the plan?	YES	NO	
*	5.	tain	he MAINTENANCE PLANS for waste con- ment structures (40 CFR 265.118(a)(2)) ude:			
			tornation estimities?	YES	NO	
		a.	inspection activities?	YES	NO	
		b.	inspection frequencies?	YES	NO	
		c.	maintaining final cover (erosion	110	110	
			damage repair) activities?	YES	NO	
	*	d.	maintaining final cover (erosion	11.0	110	
			damage repair) frequencies?			
			(40 CFR 265.310(d)(1))	YES	NO	
		e.	vegetation and fertilizing activities?	VEC	NO	
	*	f.	vegetation and fertilizing frequencies?	(LL)	140	
			(40 CFR 265.118(a)(2)(i))	YES	NO	
		g.	mowing activities?	YES	NO	
		h.	mowing frequencies?	YES	NO	N/A
	*	i.	collecting, removing, and treating	120	110	
			leachate activities?			
	4		(40 CFR 265.310(d)(2))	YES	NO	NA
	*	j.	collecting, removing, and treating	120	.,,	
			leachate frequencies?			
	_	1_	(40 CFR 265.310(d)(2)) gas collection activities?	YES	NO	N/A
	*	k.		120		
	*	,	(40 CFR 265.310(d)(3)) gas collection frequencies?	YES	NO	N/A
	*	1.	(40 CFR 265.310(d)(3))	120		
			collection and treatment of runoff?	YES	NO	
		m.	frequencies of runoff collection and	YES	NO	
		n :	treatment?			
<b>*</b>	6.	D- 1	MONITORING EQUIPMENT MAINTENANCE plans			
	ο.		CFR 265.118(a)(2)(ii)) include:			
		(40	OIR 203.110(a)(2)(11)) 2			
		a.	activities? (40 CFR 265.118(a)(2)(ii))	YES	NO	
	* *	b.	frequencies? (40 CFR 265.118(a)(2)(ii))	YES	MO	
	*	Б.	Treductions: (in our resource (a) (ii)			
	7.	Do s	SECURITY REQUIREMENT plans include:			
		a.	activities?	YES	(Me)	
		b.	frequencies?	YES	NO	
8		~.				
4	8.	Does	s the plan identify the name, address	YES	NO	
	J.	and	phone number of the POST-CLOSURE IOD CONTACT? (40 CFR 265.118(a)(3))			

<b>4</b>	9.	For landfills, does the post-closure plan			
		address the following objectives and indicate how they will be achieved? (40 CFR 265.310(b))			
		(1) Control of pollution migration via ground water, surface water, and air.	YES	NO	N/A
		(2) Control of surface water infiltration, including prevention of pooling.	YES	NO	N/A
		(3) Prevention of erosion.	YES	NO	N/A
*	10.	For land treatment operations, does the post-closure plan address the following objectives and indicate how they will be achieved? (40 CFR 265.280(a))			
		<ol> <li>Control of migration of hazardous wastes and constituents into the ground water.</li> </ol>	YES	<sub>e</sub> NO	N/A
		(2) Control of the release of contaminated runoff into surface water.	YES	NO	N/A
		(3) Control of the release of airborne particulate contaminants caused by wind erosion.	YES	NO	N/A
		(4) Protection of food chain crops.	YES	NO	N/A
*	11.	For landfills and land treatment operations, does the post-closure plan include at least a narrative statement indicating that the following factors were considered in addressing the closure objectives? (40 CFR 265.280(b), 310(b))			
		(1) Type and amount of waste.	YES	NO	N/A
		(2) Mobility and rate of migration.	YES	NO	N/A
*		(3) Site location, topography, and surrounding land use.	YES	NO	N/A
		(4) Climate, including precipitation.	YES	NO	N/A

		(5)	Characteristics of the cover, including material, final surface contour, thickness, porosity, permeability, slope, vegetation.	YES	NO 5-	N/A
		(6)	Geological and soil profiles and surface and subsurface hydrology.	YES	NO	N/A
		(7)	Unsaturated zone monitoring.	YES	NO	N/A
		(8)	Type, concentration, and depth of hazardous constituent migration as compared to background concentrations.	YES	NO	N/A
III.	OTHE	R REQ	UIREMENTS			
*	1.	for	the plan address the requirement notice to the local land authority? CFR 265.119)	YES	NO	
*	2.	Does for	the plan address the requirement notice in the deed? (40 CFR 265.120)	YES	NO	
	3.	Does main	the plan address the protection and tenance of surveyed benchmarks?	YES	NO	N/A
IV.	COMM	ENTS	<b>h</b> i			
		The	Port Chame Place is supportful	ae)		
		r C	intraviore - if is expected that			<del></del> -
		all	water will be unneed - how	د )		
		:/ ~	tomnated soil are left or			
		7 . 1	the g. v. assessment pla wheele			
	-	1,	_ , /	, ti		11.477-24
		/	TANK CHANGELO AND ORDER WAS			
		1040 201	be assumed:			<del></del>
	_ 6	ill	be regumed.	7		
e <sup>12</sup>	_ 6.	Toy	be regul.			
n 12		ill	be regumed.			
2 <sup>12</sup>		ill	be regunal.			

### GENERAL COST ESTIMATE CHECKLIST

Α.	Clos	ure Cost Estimate		
<b>k</b>	1.	Is there a written closure cost estimate? (40 CFR 265.142(a))	YES	ИО
	2.	What is the amount of the closure cost estimate?	\$ 26	5,800
	3.	Is there documentation supporting the cost estimate?	YES	NO
		<ul><li>a. Work-ups?</li><li>b. Contractor bids?</li></ul>	YES	NO Augus NO
		<ul><li>c. Operating history?</li><li>d. Other</li></ul>	YES YES	NO NO
<b>k</b>	4.	Has the cost estimate been adjusted by the 9% inflation factor? (40 CFR 265.142(b))	YES	NO N/A
<b>J</b> u	5.	Does the cost estimate cover all the activities in the closure plan including costs of labor?	YES	NO -
*	6.	Does the closure cost estimate cover all required closure activities?  (40 CFR 265.142(a))  If "NO" specify in comments below.	YES	NO
		Comments: Cost esterate include cost of		

I	3. <u>P</u> c	ost-Closure Cost Estimate			
<b>★</b> ·	1.	Is there a written post-closure cost estimate? (40 CFR 265.144(a))	YES	NO	N/A
	2.	What is the amount of the estimate?	<u>\$ 9.</u>	3,00	U
	3.	Is there documentation supporting the post-closure cost estimate?	YES	NO	
		<ul><li>a. Work-ups?</li><li>b. Contractor bids?</li><li>c. Operating history?</li><li>d. Other</li></ul>	YES YES YES YES	NO NO NO	
*	4	. Is the annual estimate multiplied by 30 to cover to entire post-closure care period? (40 CFR 265.144(b))	YES	NO	
*	5	Has the cost estimate been adjusted by the 9% inflation factor? Kew estude (40 CFR 265.144(b))	YES	NO	N/A
*	6	Does the cost estimate cover all the activities in the post-closure plan (40 CFR 265.118)?	YES	NO	
		Including labor costs?	YES	NO	
* ,		As well as the requirements of notice to local land authorities and in deeds? (40 CFR 265.119, 265.120)	YES	NO	
*	7	Does the post-closure cost estimate cover all required post-closure activities?  (40 CFR 265.144(a))  If "NO" specify in comments below.	YES	NO	
		Comments: Not me whethe whee	in dud	crell	
		be necesary			TI
			···········		

### CLOSURE COST ESTIMATE VERIFICATION

	Does Not Apply	App	lies
-		In-	Not In- cluded
		i	L

(40 CFR 265.112(a)(2))



### 1. TREATING, DISPOSING OR REMOVING INVENTORY

### A. On Site

- a. Amount of inventory and residues\* to be disposed on site  $(yd^3)$ 
  - i. From cost estimate
  - ii. From closure plan
  - iii. From visual inspection
- b. Unit cost for on site treatment
   or disposal (\$/yd³)
   i. From cost estimate
- c. Total cost of on site treatment or disposal (\$)
  - i. From cost estimate

+ cost of WTP 487,500)

### B. Off Site

- a. Amount of inventory and residues to be disposed off site (yd³)
  - i. From cost estimate
  - ii. From closure plan
- iii. From visual inspection
  - b. Unit cost for off site treatment or disposal (\$/yd³)
    - i. From cost estimate
  - c. Total cost for off-site disposal excluding transportation
    - i. From cost estimate

\$ 24,000

<sup>\*</sup>Residues here refer to residues existing at initiation of closure.

Does	App	lies
Apply		Not
	In-	In-
	cluded	cluded

Does Not	Applies						
Apply	Not   In- In-  cluded cluded						
				<ul> <li>d. Unit cost for transport of inventory (\$/yd³/mile)</li> <li>i. From cost estimate</li> </ul>	310/20 to land		
				<ul><li>e. Transport distance (miles)</li><li>i. From cost estimate</li><li>ii. By map reference</li></ul>	100 mi		
				<ul><li>f. Cost of transport (\$)</li><li>i. From cost estimate</li></ul>	9600		
				<ul><li>g. Cost of off site treatment or disposal including transport (\$)</li><li>i. From cost estimate</li><li>ii. Inspector calculation</li></ul>	119,100		
			C.	Total Cost of Treating, Disposing or Removing Inventory (\$)  a. From cost estimate	#119,100		
		2.	DEC	ONTAMINATION			
			A.	Soil Excavation			
40 CF	TR 265.280(c)(1))			a. Volume of soil to be removed (yd³) i. From cost estimate ii. From closure plan	200 ypt 3		
	<b>^</b>		0	<ul> <li>iii. Inspector's estimate</li> <li>b. Unit cost for soil excavation (\$/yd³)</li> <li>i. From cost estimate</li> </ul>			
				c. Total cost of contaminated soil excava	ushblobu.		

Does	Appli	es				
Not Apply	In-	Not In- luded				
				В.	Wastewater Removal	
<u> </u>	· · · · · · · · · · · · · · · · · · ·	-		0	<ul> <li>a. Volume of wastewater to be removed (yd³)</li> <li>i. From cost estimate</li> <li>ii. From closure plan</li> <li>iii. Inspector's estimate</li> </ul>	708,000 gd
					<ul> <li>b. Unit cost for wastewater removal (\$/yd³)</li> <li>i. From cost estimate</li> </ul>	2
					<ul><li>c. Total cost of wastewater removal (\$)</li><li>i. From cost estimate</li></ul>	6280
			a	С.	Soil, Wastewater and Residues Generated During Decontamination	
*				0	a. Volume of soil, wastewater and residues to be treated/disposed on site (yd³) i. From cost estimate ii. From closure plan iii. Inspector's estimate	78,000 gol
		7.			<ul> <li>b. Unit cost for treatment/disposal (\$/yd³)</li> <li>i. From cost estimate</li> </ul>	NA NA
	124				<ul><li>c. Cost of on site treatment/disposal (S)</li><li>i. From cost estimate</li></ul>	М.
				D.	Off Site Treatment or Disposal of Contaminated Soil, Wastewater and Residues Generated During Decontamination	
		y			<ul> <li>a. Volume of soil, wastewater and residues to be treated/disposed off site (yd³)</li> <li>i. From cost estimate</li> <li>ii. From closure plan</li> <li>iii. From visual inspection</li> </ul>	See done

Does	App	lies
Not Apply	Not	
	In-	In-
	cluded	cluded

		<ul> <li>b. Unit cost for off site treatment/     disposal (\$/yd³)</li> <li>i. From cost estimate</li> </ul>
		<pre>c. Cost of off site treatment/disposal (\$)   excluding transportation   i. From cost estimate</pre>
		<ul> <li>d. Unit cost for transport (\$/yd³/mile)</li> <li>i. From cost estimate</li> </ul>
		e. Transport distance (miles)  i. From cost estimate  ii. By map reference
		f. Cost of transport (\$) i. From cost estimate
		g. Total cost of off site treatment or disposal including transport (\$) i. From cost estimate
	Ε.	Equipment Decontamination
(40 CFR 265.112(a)(3))		a. Amount of equipment to be decontaminated (tons)  i. From cost estimate  ii. From closure plan  iii. Inspector's estimate
		b. Unit cost for equipment decontamination (\$/ton) i. From cost estimate
= *:		c. Cost of equipment decontamination (\$)  i. From cost estimate  apparely webled in contrary cost of they our hot water
	F.	Total Cost of Decontamination (\$)
W		a. From cost estimate

Does Applies		•	
Apply   Not   In-   In-   cluded   cluded			
	3.	CERTIFICATION	
(40 CFR 265.115)		A. Professional Engineer Hours (hrs)	
*		<ul><li>a. From cost estimate</li><li>b. From closure plan</li><li>c. Inspector's estimate</li></ul>	
		B. Unit Cost for Professional Engineer* (\$/hr	<u>.)</u>
		a. From cost estimate	
		C. Total Certification Cost (\$)	
		a. From cost estimate	35,000
	4.	COVER  A. Cover Material ** boshful	
(40 CFR 265.112(a)(4)) 265.280(c)(2))	;	<ul> <li>a. Area to be covered (yd²)</li> <li>i. From cost estimate</li> <li>ii. From closure plan</li> <li>iii. From visual inspection</li> </ul>	7315 yd 3
*		<ul> <li>b. Depth of cover material (yd)</li> <li>i. From cost estimate</li> <li>ii. From closure plan</li> </ul>	450 yd gw

iii. Inspector's estimate

<sup>\*</sup>Loaded with costs for support personnel.

<sup>\*\*</sup>Includes materials to be used for cover, for example gravel or clay, except for top-soil.

Does	App:	lies	
Not Apply			
	In-	In-	
	cluded	cluded	

	c.	Volume of material to be obtained on site (yd³)  i. From cost estimate  ii. From closure plan  iii. Inspector's estimate
0	d.	Volume of material to be obtained off site (yd³)  i. From cost estimate  ii. From closure plan  iii. Inspector's estimate
	e.	Unit cost of excavating material on site (\$/yd³)  i. From cost estimate  see obne
	f.	Unit cost of purchasing material off site (\$/yd³)  i. From cost estimate
	g.	Unit cost of transporting material (\$/yd³/mile)  i. From cost estimate
	h.	Transport distance (miles)  i. From cost estimate  ii. By map reference
	i.	Transport cost (\$)  i. From cost estimate
	j.	Total cost of acquiring material (\$)  i. From cost estimate
	k.	Unit cost of spreading and compacting material (\$/yd³)  i. From cost estimate 9/00.550/yd
	1.	Cost of spreading and compacting material (\$)  i. From cost estimate
	m.	Total cost of acquiring and placing material (\$)  i. From cost estimate

Does	Appl	lies		
Apply	Not			
	In-	In-		
İ	cluded	cluded		

		_		
			l	
	1		t .	
			ļ	
į.	3.		1	
			ı	

B. To	n -	9	il

В.	Top	-soil	
0	a.	Area to be covered (yd²)  i. From cost estimate  ii. From closure plan  iii. From visual inspection	NA
<u> </u>	b.	Depth of top-soil, allowing for appropria grading (yd) i. From cost estimate ii. From closure plan iii. Inspector's estimate	
<b>.</b>	c.	Volume of top-soil to be obtained on site (yd³)  i. From cost estimate  ii. From closure plan  iii. Inspector's estimate	
0	d.	Volume of top-soil to be obtained off site (yd³) i. From cost estimate ii. From closure plan iii. Inspector's estimate	
	e.	Unit cost of excavating top-soil on site (\$/yd³) i. From cost estimate	
	f.	Unit cost of purchasing top-soil off site (\$/yd³) i. From cost estimate	
	g.	Unit cost of transporting top-soil (\$/yd³/mile) i. From cost estimate	
	h.	Transport distance (miles) i. From cost estimate ii. By map reference	

Area to be growlled - und for the storged - therefore NA -assuming all waste can be unoul.

Does	App	lies
Apply	_	Not
i	In-	In-
	cluded	cluded

i.	Trans	port	cost	(\$)
	4	From	cost	estimate

- j. Total cost of acquiring top-soil (\$)i. From cost estimate
- Unit cost of spreading and compacting top-soil (\$/yd³)
  - i. From cost estimate
- Cost of spreading and compacting top-soil (\$)
  - i. From cost estimate
- m. Total cost of acquiring and placing top-soil (\$)
  - i. From cost estimate

C.	Synthetic	Liner	and	Buffer	Material
----	-----------	-------	-----	--------	----------

- a. Area to be covered (yd2)
  - i. From cost estimate
  - ii. From closure plan
- iii. From visual inspection
  - b. Depth of sand\* buffer (yd)
    - i. From cost estimate
    - ii. From closure plan
- iii. Inspector's estimate
  - c. Volume of sand to be obtained on site (yd³)
    - i. From cost estimate
    - ii. From closure plan
- iii. Inspector's estimate

<sup>\*</sup>Includes other materials (other than clay and top-soil) which may be used along with the synthetic liner.

Does	App.	lies
Apply		Not In-
	In-  cluded	cluded

0	d.	Volume of sand to be obtained off site (yd³ i. From cost estimate ii. From closure plan iii. Inspector's estimate	)
	e.	Unit cost of excavating sand on site (\$/yd3 i. From cost estimate	)
	f.	Unit cost of purchasing sand off site (\$/your i. From cost estimate	13)
	g.	Unit cost of transporting sand (\$/yd3/mile) i. From cost estimate	
	h.	Transport distance (miles)  i. From cost estimate  ii. By map reference	
	j.	Total cost of acquiring sand (\$) i. From cost estimate	
	k.	Unit cost of spreading and compacting sand (\$/yd³) i. From cost estimate	
	1.	Cost of spreading and compacting sand (\$) i. From cost estimate	и
	m.	Total cost of acquiring and placing sand (i. From cost estimate	\$)
	n.	Unit cost of acquiring and installing synthetic liner (\$/yd²) i. From cost estimate	
	ο.	Cost of acquiring and installing synthetic liner (\$) i. From cost estimate	
	p.	Unit cost of acquiring and installing synthetic liner and buffer materials (\$/yd i. From cost estimate	<sup>2</sup> )

Does	Applies				
Not Apply	Not   In-   In-   cluded   cluded				
				q. Total cost of acquiring and installing sylliner and buffer materials (\$) <ol> <li>i. From cost estimate</li> </ol>	nthetic
				5	
1			D.	Total Cover Cost	
	, <u>, , , , , , , , , , , , , , , , , , </u>			<ul> <li>a. Unit cost of cover (\$/yd²)</li> <li>i. From cost estimate</li> </ul>	
				<ul><li>b. Total cost of cover (\$)</li><li>i. From cost estimate</li></ul>	
		5.	Veg	etation	
40 CFF (2)(i:	R 265.280(c)		Α.	Area in Need of Vegetation (yd²)  a. From cost estimate  b. From closure plan  c. From visual inspection	
			В.	Unit Cost for Acquiring and Placing Seed, Fertilizer, Etc. (\$/yd²) a. From cost estimate	
			C.	Total cost of Acquiring and Placing Seed, Fertilizer, Etc. (\$) a. From cost estimate	
		ו   6.	0+1	ner (from cost estimate) (\$)	
			<u> </u>	(specify)	\$
				(specify)	\$
		7.	To	otal Closure Costs (\$)	

A. From cost estimate

NTS					
<u> </u>					
		•			
<del></del>	5 X X X X X X X X X X X X X X X X X X X		 		
		375			
		£	 		<del></del>
could a second					- 1000
	(0)				
					40
				100	
			 · · · · · · · · · · · · · · · · · · ·		
			 (1982).c.V		
				1994	455
-					

### POST-CLOSURE COST ESTIMATE VERIFICATION

FROM CONTINGENCY POST CLOSUKE MAN.

Does	App]	ies
Not Apply	In- cluded	Not In- cluded

1. INSPECTION/FACILITY VISITS - monthly inputs + years knowled	1. <u>INSPECTION/FACILITY VISITS</u>	- monthly injected + yearly browned
--	--------------------------------------	-------------------------------------

Α.	Total	hours	of	professional	level	personnel	(hrs/year)
----	-------	-------	----	--------------	-------	-----------	------------

- a. From cost estimate
- b. From post-closure plan
- c. Inspector's estimate

B. Unit cost for professional level personnel\*(\$/hr)

a. From cost estimate

C. Total inspection/facility visit cost (\$/year)
a. From cost estimate

li.	
	ل

REESTABLISHING FINAL COVER AND VEGETATION

(40 CFR 265.118(a)(2)(i); 265.310(d)(1))

A. Area involved (yd²)

- a. From cost estimate
- b. From post-closure plan
- □ c. From visual inspection

\*

B. Unit cost for reestablishing cover and vegetation  $(\$/yd^2)$ 

a. From cost estimate

C. Reestablishing cover and vegetation cost (\$/year)

a. From cost estimate

<sup>\*</sup>Loaded with costs for support personnel.

Does	Applies		· · · · · · · · · · · · · · · · · · ·	
Not Apply	Not   In-   In-   cluded   cluded			
		3.	FERTILIZING	
			<ul> <li>A. Area involved (yd²)</li> <li>a. From cost estimate</li> <li>b. From post-closure plan</li> <li>c. From visual inspection</li> </ul>	
	140		B. Unit cost for fertilizing (\$/yd²) a. From cost estimate	
			C. Total fertilizing cost (\$/year) a: From cost estimate	included olum
		4.	MOWING	197
· ·			<ul> <li>A. Area involved (yd²)</li> <li>a. From cost estimate</li> <li>b. From post-closure plan</li> <li>c. From visual inspection</li> </ul>	
			B. Unit cost for mowing (\$/yd²) a. From cost estimate	
			<pre>C. Mowing cost (\$/year) a. From cost estimate</pre>	included stay.
i		5.	GROUNDWATER MONITORING AND WELL REPLACEME	<u>ENT</u>
(40 CF	TR 265.117(a)(1)	))	A. Groundwater Monitoring	
	*		<ul> <li>a. Number of wells</li> <li>i. From cost estimate</li> <li>ii. From post-closure plan</li> <li>iii. From visual inspection</li> </ul>	

Does	Applies		<b></b> □	
Apply	In-   Not   In-   cluded			
,			<ul><li>b. Unit cost for groundwater monitoring (\$/well/year)</li><li>i. From cost estimate</li></ul>	
			<ul><li>c. Groundwater monitoring cost (\$/year)</li><li>i. From cost estimate</li></ul>	inhold behar-
		В.	Well Replacement	
			<ul> <li>a. Average <u>annual</u> number of well replacements</li> <li>i. From cost estimate</li> <li>ii. From post-closure plan</li> <li>iii. Inspector's estimate</li> </ul>	3.5
g.			<ul><li>b. Unit cost for well replacement (\$/replacement)</li><li>i. From cost estimate</li></ul>	
			<ul><li>c. Cost for well replacement (\$/year)</li><li>i. From cost estimate</li></ul>	irelated below
		C.	Total groundwater monitoring and well replacement cost (\$/year)* a. From cost estimate	13, 800
		6. <u>MA</u>	INTAINING AND REPLACING FENCES	
	R 265.117(b); 4(b)(2)(i))	Α.	Maintaining Fences	
233.1	*		<ul> <li>a. Length of fence required (yd)</li> <li>i. From cost estimate</li> <li>ii. From post-closure plan</li> <li>iii. From visual inspection</li> </ul>	

<sup>\*</sup>Note in comment section whether well replacement component is on annual basis or not.

Does	App]	lies
Apply	In-	Not In-
	cluded	cluded

b.	<pre>Unit cost for maintaining fences (\$/yd) i. From cost estimate</pre>	
c.	Cost for maintaining fences (\$/year)  i. From cost estimate	
Rep	lacing Fences	
a.	Length of fence to be replaced annually* (yd)  i. From cost estimate  ii. From post-closure plan  iii. Inspector's estimate	
b.	Unit cost for fence replacement (\$/yd)	

ł	1	1	
i	ı		
	4		

C. Total Maintaining and Replacing Fences Cost (\$/year)\*\*

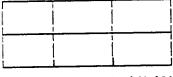
Cost of fence replacement (\$/year)

From cost estimate

a. From cost estimate

В.

will in Tooly



(40 CFR 265.310(d)(2))



### 7. COLLECTING, REMOVING AND TREATING LEACHATE

- A. Amount of leachate collected (gal./year)
  - a. From cost estimate
  - b. From post-closure plan

NH

<sup>\*</sup>Total length of fence to be replaced over the entire post-closure period divided by 30 to obtain an annual average.

<sup>\*\*</sup>Note in comment section whether fence replacement component is on annual basis or not.

Does	Applies		
Apply	In-	Not In- cluded	
,			
	1		

В.	Off	Site	Disposal
ь.	UII	DILE	DISPOSAT

	Off	Site Disposal	
	a.	Amount of leachate removed to off site disposal facility (gal./year) i. From cost estimate ii. From post-closure plan	
	ъ.	Unit cost for off site leachate disposal (\$/gal.) i. From cost estimate	21
	c.	<pre>Unit cost for transport of leachate (\$/gal./mile) i. From cost estimate</pre>	
	d.	Transport distance (miles)  i. From cost estimate  ii. From post-closure plan  iii. By map reference	
	e.	Cost of transport (\$/year)  i. From cost estimate	
	f.	Total cost of off-site treatment/ disposal of leachate (\$/year) i. From cost estimate	
C.	On	Site Disposal	
	a.	Amount of leachate disposed of on-site i. From cost estimate ii. From post-closure plan	(gal.)
	b.	Unit cost of on site leachate disposal i. From cost estimate	(\$/gal.)

c. Cost of on-site leachate disposal (S/year)

i. From cost estimate

Does	Appl	ies			× .	
Not Apply	In-	Not In-		3	¥	
	cluded	cluded			•	
				D.	Total Collecting, Removing, Treating and I of Leachate Cost (\$) a. From cost estimate	Disposal
					a. From cost estimate	
			8.	Adm	inistrative	
	a.			A	Hours of management time required to admit the post-closure plan (hrs/year) a. From cost estimate b. From post-closure plan c: Inspector's estimate	
				В.	Unit cost for management time* (\$/hr) a. From cost estimate	
				C.	Total administrative cost (\$/year) a. From cost estimate	\$2000
<u></u>			9.	Oth	ner (specify) (\$/year)	
(40 CF	FR 265.1 FR 265.1	19) 🛨		A. B. C.	Local land authority notice (\$/year) Notice in deed (\$/year)	
		G		D. E.	(Total Other)	
			10.	<u>To</u>	tal Annual Post-Closure Costs (\$)	
			*	а.	From cost estimate  from post close contrying cost e  costing west count be remove	\$ 24,000 Lili

\*Loaded with costs for support personnel.

	78.1 ST 4X
9	
	10VO 57
	(K-100-1)

COLUMBUS FACILITY

DIVISION OF SOLID WASTE
REVIEWED BY

DATE 9-1-83

COMMENTS LETTER DATE: 8-25-83

FOREST PRODUCTS DIVISION

KERR-McGEE CHEMICAL CORPORATION

HAZARDOUS WASTE TRAINING RECORD

The names, titles, job descriptions, and training dates of the key facility employees who are trained to oversee the hazardous waste management operation at the Columbus plant are summarized below:

NAME	TITLE	JOB DESCRIPTION	INTRODUCTORY TRAINING	FOLLOW-UP COURSE	FOLLOW-UP COURSE
B. W. Boisseau	Supt.	Principal hazardous waste coordinator responsible for all plant operations, with the authority to commit the resources needed to carry out	1/20/81	2/05/81 4/14/81 5/24/82	2/15/83
	•	the contingency plan.			
Paul Compton	Asst. Supt.	First alternate hazard- ous waste coordinator and assistant to the superintendent, with the authority to commit the needed resources to carr out the contingency plan in the absence of the principal hazardous wast coordinator.	ý	3/24/82 5/07/82	4/06/83
Don Getz		Second alternate hazard- ous waste coordinator who assists the principal and first alternate coor- dinators in implementing resources needed to carr- out the contingency plan	1 - y	2/16/82 3/24/82 5/07/82	4/06/83
Neal Lollar	Supvr. Mainte- nance	Third alternate hazardous waste coordinator who assists the principal, first and second alternate coordinators in implementing resources needed to carry	st ng		

out the contingency plan.

INTERIM STATUS COMPLIANCE CHECKLIST

Pete Gaskin.
Bubby Boisseau - Plant Superintedant.
Dan Getz - Comedinator.

# SUBPART B - GENERAL FACILITY STANDARDS

Yes

# 265-12 Required Notices

The facility owner or operator must weeks in advance of receipt of wastes notify the Director at least four from a foreign source.

5

owner or operator of the requirements of 40 CFR 265 and 122. owner or operator must notify the new cion of a facility, the facility's Before transferring ownership or opera-

### 265.13 General Waste Analysis ..

all the information which must be known in accordance with the federal requireto treat, store, or dispose the waste wastes. chemical and physical analysis of or operator must obtain a detailed of haardous waste, the facility owner Before treating, storing, or disposing The analysis must contain

### 265.14 Unauthorized Access to the Facility Security to Prevent Unknowing and

- a) unless: possibility for unauthorized entry The owner or operator must prevent the unknowing entry and minimize the
- structures, or equipment will not be injurious physical contact with the waste,
- will not violate the requirements of Part 265. 2) disturbance of the waste or equipment

Not applicable - NA Not in compliance - No In compliance - Yes N O N/A

COMMENTS

Results beam 8/27/80 = fix No; anilysis, 84 - crosse phat only.

A sign warning of the danger of intruda means to control entry

ing into the facility.

# Inspection and Monitoring

- B which may be causing or lead to release of hazardous waste constituents to ioration, operator errors, or discharge The owner or operator must inspect health. the environment or a threat to human the facility for malfunctions and deter-
- The owner or operator must develop inspections. and follow a schedule and plan for
- င ment and structures when a hazard is function or the deterioration of equipimminent. al action upon the detection of mal-The owner or operator must take remedi-
- <u>م</u> must keep the records for at least spections in an inspection log and The owner or operator must record inthree years from the date of inspection

Daily inspections made Like . Time hove ,

17263. 22070

i offerino freeboard

Frucing 21975

I mpoundant in process stea

Impedias we pessive in where -

265.16

_	_	
	Not	Not
	ap	Ín
	applicable	compliance
	- NA	Ce
		Z

## Facility Personnel Training Yes

- a with the requirements of Part 265. that ensures the facility's compliance them to perform their duties in a way Facility personnel must successfully tion or on-the-job training that teaches complete a program of classroom instruc-
- 5 date of Part 265. within six months of the effective The training program must be completed

೭ initial training in (a) above. There must be an annual review of the 

- <u>д</u> The owner or operator must, maintain records of training. ::: :::
- e) Training records on current personnel must be kept until closure of the fact-

### 265,17 Reactive or Incompatible Wastes General Requirements for Ignitable,

- tive waste. cautions to prevent accidental igni-The owner or operator must take pretion or reaction of ignitable or reac-
- ᠸ does not: wastes must be conducted so that it mixture or commingling of incompatible Treatment, storage, or disposal of ignitable or reactive waste and the
- fire or explosion, or violent reaction; 1) Generate extreme heat or pressure,
- fumes, dusts, or gases in sufficient Produce unconfrolled toxic mists,

N/A

COMMENTS

Training to be uplated 5/24/84

Last framens 4/61

Test gim to employees yearly.

265.17 - Continued--

quantities to threaten human.health;

- $\omega$ or gases in sufficient quantities Produce uncontrolled flammable fumes to pose a risk of fire or explosions;
- 3 Damage the structural integrity of waste; or the device or facility containing
- Through other like means threaten human health or the environment.

## SUBPART C - PREPAREDNESS AND PREVENTION

controlled by the State. and prevention of releases of hazardous waste Pursuant to lities must be maintained and operated for 265;30 through 265,37, fact-

### SUBPART D - CONTINGENCY PLANS

to be followed in the event of a release contingency plans and emergency procedures Pursuant to 265.56, facilities must have If hazardous waste.

#### SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

- 265.71(a)(1-5) If a facility receives fest, the owner or operator must meet the requirements of 265.71(a)(1-5) hazardous waste accompanied by a mani-
- 265.71(b)(1-5) If a facility receives, by a shipping paper, the owner or operhazardous waste which is accompanied ator must meet the requirements of from a rail or water transporter,

Not applicable - NA Not in compliance - No ru combilance - ies

Yes

N<sub>O</sub>

COMMENTS

A Sourkest pillow; A boosful boom . 3M pads.

Pon Clardy on 24 hour cell - hus bucklos. Extenguations on side - hore. city make - hydrials as with Casempency coordinators use current Averagements with local sollowers should be more

Annel Report - laked 3/21/84/ - 88,700 9d. in pond. - 18,700 16/41. surrocked

a
0
~
₽
-
z
н
S

In compliance - Yes
Not in compliance - No

No

or transporter.	the discrepancy with	operator must attempt	manifest discrepancy,	265.72(a) Upon discovery	
	the	ţ	the	Of	
=	waste	reconcile	eowner	significant	-
	generator	:11e	or	ficant	

- (b) If a significant manifest discrepancy is not resolved, the owner or operator must notify the Director.
- 265.73(b) The owner or operator, must keep a written operating record at the faci-litywhich meets the requirements of 265.73(b).
- 265.74(a) All records must be furnished upon request and available at all times for inspection by the Director or EPA.
- (c) A copy of records of waste disposal locations and quantities must be submitted to the Director and the local land authority upon closure of the facility.
- 265.75 The owner or operator must submit an annual report to the Director in compliance with the requirements of 265.75.
- 265,76 The receipt of any unmanifested waste must be reported to the Director
- 265.77 The owner or operator must submit a report to the Director if any of the following occur:
- ) releases, fires, explosions
- ) groundwater contamination
- ) facility closure.

SUBPART F - GROUNDWATER MONITORING

265.90 Owner or operator must implement a within one year of the effective date of 265.90. of determining the facility's impact on the quality of the upper aquifer groundwater monitoring program capable

265.91 - 265.94 The owner and operator must install, operate, and maintain meets the requirements of 265,91 a groundwater monitoring system which

265:90(c) All of the groundwater monitorwells or to surface water. below the facility to water supply the facility via the uppermost aquifer of hazardous waste constituents from owner or operator can demonstrate that there is a low potential for migration ing requirements may be waived if the

## SUBPART G - CLOSURE AND POST-CLOSURE

- his facility in a manner that: The owner or operator must close
- 1) minimizes the need for future maintenance, and
- post-closure escape of hazardous 2) controls, minimizes, or eliminates
- 265.112(a) effective date of Part 265. have a written closure plan on the The owner or operator must

Not in compliance - No In compliance - Yes

Not applicable - NA No

COMMENTS

Cupant by Upgridist will next week. conduct as assessment plan. , under commission order to

Closure plus revision - 4/8/84 subinisin Closure plan was discussed. To be resubonitted 6/11/84.

265:112(a) Continued--

### The closure plan must include:

- if applicable, and ultimately closed. facility will be partially closed, A description of how and when the
- at any given time. tory of wastes in storage or treatment An estimate of the maximum inven-
- equipment. Steps to decontaminate facility
- must include, as a minimum, anticipletion of final closure, and intervenbe received, anticipated date for compated dates when wastes will no longer 4) A schedule for final closure which ing milestone dates.

1

- 265. 113(a) Closure must be initiated within 90 days after receiving the. final volume of hazardous wastes.
- volume of wastes. six months after receiving the final complete closure activities within (b) ; The owner or operator must
- 265.114 Upon completion of closure, all erly disposed of or decontaminated. equipment and structures must be prop-
- 265.115 The owner or operator and an indethe approved closure plan. has been closed in accordance with neer must certify that the facility pendent registered professional engi-

Yes Not applicable - NA Not in compliance - No In compliance - Yes

Not applicable - NA Not in compliance - No N/A

COMMENTS

Assumption that

Claur closed

2) Maintenance of the contaminant

system

date of Part 265 a post-closure plan on the effective The owner or operator must have and it must include:

- and frequency. Groundwater monitoring activities
- cap, final cover, or other containment cies to ensure the integrity of the structures, and functions of the faci-Maintenance activities and frequenlities monitoring equipment.
- 265.119 Within 90 days after closure, survey plat of the facility. the owner or operator must submit a
- 265.120 The owner or operator must record has been used to manage hazardous waste a notice on the deed that the land

## SUBPART H - FINANCIAL REQUIREMENTS

265,142(a) The owner or operator must of closure and post-closure costs. develop and maintain a current estimate

## SUBPART I - OTHER FACILITY STANDARDS

265:170 stored. be compatible with the waste to be 265.172 The container must

Not applicable - NA

No

N/A

which	opened,	must	265.173
may cause a rupture or leak.	d, handled, or stored in a manner	be kept closed and must not be	Containers holding hazardous waste

- 265.174 Areas where containers are stored must be inspected weekly.
- 265.176 Containers holding ignitable or reactive waste must be located at least 15 meters from the facility's property line.
- 265.177(a) Incompatible wastes must not be placed in the same container.
- (b) A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby must be separated or protected from the other materials.

#### SUBPART J - TANKS

- 265.192(b) Hazardous waste must be placed in a tank if they could cause the tank or its liner to leak.
- (c) Uncovered tanks must have a least two feet of freeboard unless other containment structures, a drainage control system, or other diversion structures with a capacity that equals or exceeds the volume of the top two feet of the tank.
- (d) Tanks which have a continuous feed system must be equipped with a means to stop the inflow.

ant is so be just bick on Parti

accordance with 265, 228.	265.228 The surface impoundment must close	(2) Must inspect the surface impoundment at least once a week to detect any leaks, deterioration, or failure.	265.226(1) Must inspect the freeboard level at least once each operating day.	265.225 Must conduct waste analyses and trial tests in accordance with 265. 225.	265.223 Earthen dikes must have protective cover.	265.222 Must maintain at least two feet of freeboard.	SUBPART K - SURFACE IMPOUNDMENTS	265.199 Incompatible wastes must not be placed in the same tank unless 265. 176 is complied with.	265.198 Ignitable or reactive waste should not be placed in a tank unless 265. 198 is complied with.	265.197 At closure, all hazardous waste and hazardous waste residues must be removed from the tanks.	265.194 Tanks must be inspected in accordance with 265.194.	265,193 Waste analysis must be conducted pursuant to 265,13, and 265,193(a).		RECOUREMENT
٠, ٠	` 	(	<u> </u>		ζ	•							1 1	Not in
i .		• -				¥	-						No	in compliance applicable - 1
													A/N	- NA
		dail.		- Report querterly 15 reporting period.	- pretoctant permit regions enotying.	3 southor 2' find.	•				·			COMMENTS

400	Not	NOC
	ap	11
2	applicable	Combarance
2	- NA	1

265.229 not be placed in a surface impoundment ur.less Ignitable or reactive waste must 265.229 is complied with.

265,230 placed in the same surface impoundment unless Incompatible wastes must not be 265:17(b) is complied with.

### SUBPART L - WASTE PILES

265.251 and managed to control wind dispersal. A waste pile must be protected

265.252 waste analyses unless the facility meets the exemptions of An owner or operator must conduct 265,252.

265.253 Within one year after the effective date of the regulations, be controlled pursuant to leachate or run-off from a pile must 265.253.

265.256 not be placed in a waste site unless 265.256 is complied with. Ignitable or reactive waste must

265.257 The requirements of with. incompatible wastes must be complied 265.257 for

### SUBPART M - LAND TREATMENT

265.272(a) or non-hazardous placed at a land treatment facility unless it can be made less hazardous Hazardous waste must not be

year after the effective date of Part from other active portions as of one Run-on must be diverted away

7.

#### 265,272 -- Continued

- must be collected as of one year after the effective date of Part 265 ... (c) Run-off from active portions
- 265,273 Waste analyses must be conducted pursuant to 265, 273.
- 265.276(a) An owner or operator must notify treatment facility. food chain crops are grown on the land the effective date of Part 265 1f the State Director within 60 days after
- less ous waste land treatment facility ungrown on the treated area of a hazard-265.276(b) is complied with. Food chain crops must not be
- unless grown on a land treatment facility receiving waste that contains cadmium Food chain crops must not be 265.276(c) is complied with.
- 265.278. The owner or operator must have saturated zone monitoring plan pursuan in writing and must implement an un-265:278.
- 265,279 in a facility. tion of each hazardous waste placed lication rates, quantities, and locarecords of the application dates, app-The owner or operator must keep
- 265,280 quirements of meet the closure and post-closure re-A land treatment facility must 265.280.

1

Not applicable - NA Not in compliance - No

No

tie companie

COMMENTS

:

N/A

COMMENTS

should not be placed in a landfill or containers holding liquid waste

unless the requirements of

265.314

• • • •

265.315 (1) Empty containers must be reduced in volume as of one year after the effective date of Part 265.

### SUBPART O - INCINERATORS

265.343 Must be at steady state conditions before adding hazardous waste.

265.345 Waste analyses must be conducted pursuant to 265.345.

be conducted as delineated in 265.347.

265.351 At closure, the owner or operator must remove all hazardous waste and hazardous waste residues.

### SUBPART P - THERMAL TREATMENT

265,373 Must be at steady state conditions before adding hazardous wastes.

265.375 Waste analyses must be conducted pursuant to 265.375.

265.377 Monitoring and inspections must be conducted as delineated in 265. 377.

265.301 At closure, the owner or operator must remove all hazardous waste residues.

265.382 Open burning of hazardous waste is prohibited except for the open burning and detonation of waste explosives

ners must be reone year after
Part 265.

,i

Yes Not applicable - NA Not in compliance - No ö

SUBPART Q - CHEMICAL, CAL TREATMENT PHYSICAL, AND BIOLOGI-

265.401(a) Must comply with. 265. ·17(b)

- or the process would occur. equipment if any failure of equipment placed in the treatment process or Hazardous waste must not be
- must be equipped with a means to stop the inflow. A continuously-fed process
- 265.402 must be conducted pursuant to Waste analyses and trial tests
- 265.403 Ö Inspections must be made pursuant
- 265.404 be removed. and hazardous waste residues must At closure, all hazardous waste
- 265,405 unless not be placed in a treatment process Ignitable or reactive waste must 265.405 is complied with.
- 265,406 be placed in the same treatment process unless Incompatible wastes must not 26517(b) is complied with.

## SUBPART R - UNDERGROUND INJECTION.

265.430(a) other requirements of Part 265. ground injection is subject to the requirements of Part 265. closure and post-closure or financial ardous waste is not subject to the underground injection of haz-

> N/A COMMENTS

INTERIM STATUS COMPLIANCE CHECKLIST

Mc Gee

P.O.Box 906 ph. 328-7551

M. B.W. Boiss cau

## SUBPART B - GENERAL FACILITY STANDARDS

#### 265,12 Required Notices

- from a foreign source. weeks in advance of receipt of wastes The facility owner or operator must notify the Director at least four
- owner or operator of the requirements of 40 CFR 265 and 122. owner or operator must notify the new Before transferring ownership or opera-tion of a facility, the facility's

Ç,

#### 265.13 General Waste Analysis ..

all the information which must be known in accordance with the federal requireto treat, store, or dispose the waste chemical and physical analysis of ments. wastes. or operator must obtain a detailed of haardous waste, the facility owner Before treating, storing, or disposing The analysis must contain

- Unauthorized Access to the Facility Security to Prevent Unknowing and
- a unless; possibility for unauthorized entry the unknowing entry and minimize the The owner or operator must prevent
- injurious structures, or equipment will not be physical contact with the waste,
- Part 265. will not violate the requirements of disturbance of the waste or equipment

Not applicable - NA Not in compliance - No TH COMPTTUNCE .- IER

N/A COMMENTS

N<sub>o</sub>

#### 265.14 - Continued

- 5 Unless exempt under or 402.7-14(a)(2), a facility must have: 265:14 (a)(1)
- נ a 24-hour surveillance system
- 2) (±) an artificial or natural barrie which completely surrounds the active portion of the facility
- (11) a means to control entry
- <u>င</u> A sign warning of the danger of intruding into the facility. F4

#### 265.15 Inspection and Monitoring

- the environment or a threat to human of hazardous waste constituents to which may be causing or lead to release ioration, operator errors, or discharge the facility for malfunctions and deter The owner or operator must inspect
- and follow a schedule and plan for The owner or operator must develop inspections.
- ೦ imminent. ment and structures when a hazard is function or the deterioration of equipal action upon the detection of mal-The owner or operator must take remedi-
- ٥ must keep the records for at least The owner or operator must record inthree years from the date of inspection spections in an inspection log and

Not apolicable - NA Not in compliance - No

COMMENTS

N/A

Not applicable -

20

ווחר דוו רחוולידדשווכם ב זוח

## 265.16 Facility Personnel Training

- a) Facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of Part 265.
- b) The training program must be completed within six months of the effective date of Part 265.
- c) There must be an annual review of the initial training in (a) above.
- d) The owner or operator must, maintain records of training.
- e) Training records on current personnel must be kept until closure of the faci-
- 265.17 General Requirements for Ignitable, Reactive or Incompatible Wastes
- a) The owner or operator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste.
- b) Treatment, storage, or disposal of ignitable or reactive waste and the mixture or commingling of incompatible wastes must be conducted so that it does not:
- Generate extreme heat or pressure, fire or explosion, or violent reaction;
- 2) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient

seed job description for all

265.17 - Continued--

quantities to threaten human.health;

- $\omega$ Produce uncontrolled flammable fumes to pose a risk of fire or explosions; or gases in sufficient quantities
- 4 waste; or Damage the structural integrity of the device or facility containing
- Through other like means threaten human health or the environment.

# SUBPART C - PREPAREDNESS AND PREVENTION

controlled by the State. and prevention of releases of hazardous waste Pursuant to lities must be maintained and operated 265;30 through 265,37, faci-

### SUBPART D - CONTINGENCY PLANS

to be followed in the event of a release contingency plans and emergency procedures Pursuant to hazardous waste. 265.56, facilities must have

#### SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

- 265.71(a)(1-5) If a facility receives the requirements of 265.71(a)(1-5)fest, the owner or operator must meet hazardous waste accompanied by a mani-
- 265.71(b)(1-5) If a facility receives, ator must meet the requirements of by a shipping paper, the owner or operhazardous waste which is accompanied from a rail or water transporter, 265,71.

Not applicable - NA Not in compliance - No

- 265.72(a) or transporter. the discrepancy with the waste generator operator must attempt to reconcile manifest discrepancy, the owner or Upon discovery of significant
- or operator must notify the Director crepancy is not resolved, the owner If a significant manifest dis-
- a written operating record at the factlitywhich meets the requirements of 265.73(b). The owner or operator, must keep
- 265.74(a) All records must be furnished upon request and available at all times for inspection by the Director or EPA.
- local land authority upon closure of be submitted to the Director and the posal locations and quantities must the facility. <u>ල</u> A copy of records of waste dis-
- 265.75 an annual report to the Director in compliance with the requirements of The owner or operator must submit
- 265,76 The receipt of any unmanifested waste must be reported to the Director
- 26577 the following occur: a report to the Director if any of The owner or operator must submit
- releases, fires, explosions
- ō groundwater contamination
- facility closure.

Not applicable - NA Not in compliance - No In compliance - Yes

COMENTS

Yes

Z O

## SUBPART F - GROUNDWATER MONITORING

265.90 within one year of the effective date on the quality of the upper aquifer of determining the facility's impact groundwater monitoring program capable Owner or operator must implement a 265.90.

265.91 must install, operate, and maintain meets the requirements of a groundwater monitoring system which 265-94. 265.94 The owner and operator 265.91 -

265.90(c) wells or to surface water. below the facility to water supply the facility via the uppermost aquifer of hazardous waste constituents from owner or operator can demonstrate that there is a low potential for migration ing requirements may be waived if the All of the groundwater monitor-

## SUBPART G - CLOSURE AND POST-CLOSURE

his facility in a manner that: The owner or operator must close

- tenance, and minimizes the need for future main-
- waste. post-closure escape of hazardous controls, minimizes, or eliminates
- 265.112(a) effective date of Part 265. have a written closure plan on the The owner or operator must

Yes Not applicable - NA Not in compliance - No In compliance - res ö

265:112(a) Continued--

The closure plan must include:

- 1) A description of how and when the facility will be partially closed, if applicable, and ultimately closed.
- An estimate of the maximum inventory of wastes in storage or treatment at any given time.
- 3) Steps to decontaminate facility equipment.
- 4) A schedule for final closure which must include, as a minimum, anticipated dates when wastes will no longer be received, anticipated date for completion of final closure, and intervening milestone dates.
- 265.113(a) .Closure must be initiated within 90 days after receiving the final volume of hazardous wastes.
- (b) The owner or operator must complete closure activities within six months after receiving the final volume of wastes.
- 265.114 Upon completion of closure, all equipment and structures must be properly disposed of or decontaminated.
- 265.115 The owner or operator and an independent registered professional engineer must certify that the facility has been closed in accordance with the approved closure plan.

Yes	Not	Not.	
	ap	in in	
No	applicable	in compliance	
V/N	- NA	ce + No	

Not applicable - NA Not in compliance - No

דוו החוולדדמווכה ב ופפ

Yes No

COMPENTS

265.117(a) of at least: Post closure care must consist

- Groundwater monitoring
- 2) Maintenance of the contaminant system.

date of Part 265 a post-closure plan on the effective The owner or operator must have and it must include:

and frequency. Groundwater monitoring activities

ä

- cies to ensure the integrity of the lities monitoring equipment. structures, and functions of the facicap, final cover, or other containment Maintenance activities and frequen-
- 265.119 Within 90 days after closure, survey plat of the facility. the owner or operator must submit a
- 265.120 has been used to manage hazardous waste a notice on the deed that the land The owner or operator must record

## SUBPART H - FINANCIAL REQUIREMENTS

265.142(a) The owner or operator must of closure and post-closure costs. develop and maintain a current estimate

## SUBPART I - OTHER FACILITY STANDARDS

265.170 be compatible with the waste to be stored. 265.172 The container must

Yes

N<sub>O</sub>

- 265.173 Containers holding hazardous waste opened, handled, or stored in a manner must be kept closed and must not be which may cause a rupture or leak.
- 265.174 Areas where containers are stored must be inspected weekly. F
- 265.176 line. reactive waste must be located at least 15 meters from the facility's property Containers holding ignitable or
- 265.177(a) be placed in the same container. Incompatible wastes must not
- with any waste or other materials stored a hazardous waste that is incompatible from the other materials. nearby must be separated or protected A storage container holding

#### SUBPART J - TANKS

- 265.192(b) Hazardous waste must be placed or its liner to leak. in a tank if they could cause the tank
- feet of the tank. or exceeds the volume of the top two structures with a capacity that equals control system, or other diversion other containment structures, a drainage least two feet of freeboard unless (c) Uncovered tanks must have a
- means to stop the inflow. feed system must be equipped with a (d) Tanks which have a continuous

265.228 The surface impoundment must close in accordance with 265.228.	(2) Must inspect the surface impoundment at least once a week to detect any leaks, deterioration, or failure.	265.226(1) Must inspect the freeboard level at least once each operating day.	265.225 Must conduct waste analyses and trial tests in accordance with 265. 225.	265.223 Earthen dikes must have protective cover.	265.222 Must maintain at least two feet of freeboard.	SUBPART K - SURFACE IMPOUNDMENTS	265.199 Incompatible wastes must not be placed in the same tank unless 265. 176 is complied with.	265.198 Ignitable or reactive waste should not be placed in a tank unless 265.	265.197 At closure, all hazardous waste and hazardous waste residues must be removed from the tanks.	265.194 Tanks must be inspected in accordance with 265.194.	265,193 Waste analysis must be conducted pursuant to 265.13, and 265,193(a).	REQUIREMENT Not applicable Yes No
							: 41	10			•	ble - NA o N/A
					and city lotal	a I that he asserted flow						CONMENTS

Yes

- 265.229 not be placed in a surface impoundment Ignitable or reactive waste must 265.229 is complied with.
- 265;230 Incompatible wastes must not be unless placed in the same surface impoundment 265:17(b) is complied with.

### SUBPART L - WASTE PILES

- 265.251 and managed to control wind dispersal. A waste pile must be protected
- meets the exemptions of 265,252. waste analyses unless the facility An owner or operator must conduct
- 265.253 Within one year after the effective date of the regulations, be controlled pursuant to leachate or run-off from a pile must 265,253.
- 265.256 not be placed in a waste site unless 265.256 is complied with. Ignitable or reactive waste must
- 265.257 The requirements of with. incompatible wastes must be complied 265.257 for

### SUBPART M - LAND TREATMENT

- 265.272(a) or non-hazardous. unless it can be made less hazardous placed at a land treatment facility Hazardous waste must not be
- 265. year after the effective date of Part from other active portions as of one Run-on must be diverted away

. 1

:

7.

(c) Run-off from active portions must be collected as of one year after the effective date of Part 265...

265.273 Waste analyses must be conducted pursuant to 265.273.

the State Director within 60 days after the effective date of Part 265 if food chain crops are grown on the land treatment facility.

(b) Food chain crops must not be grown on the treated area of a hazardous waste land treatment facility unless 265.276(b) is complied with.

(c) Food chain crops must not be grown on a land treatment facility receiving waste that contains cadmium unless 265.276(c) is complied with.

265.278 The owner or operator must have in writing and must implement an unsaturated zone monitoring plan pursuan to 265.278.

265.279 The owner or operator must keep records of the application dates, application rates, quantities, and location of each hazardous waste placed in a facility.

265.280 A land treatment facility must meet the closure and post-closure requirements of 265.280.

Not in compliance - No Not applicable - NA Yes No N/A

NA CONTENTS

\_

1	٠	-	4
ı	•	^	3
l	t	7	7
ı	1		>
1	,	_	-
1	Ų		-
1	١	-	4
1	:	z	3
1	:	_	_
ι	ŧ	2	3
1	٠	2	_
1	t	-	ב
ı	E	3	7
1	•	7	•
1		•	4
١	}	-	J
1			
ı	}	_	3

265.281 not be placed in a land treatment facility unless Ignitable or reactive waste must 265.281 is complied with.

265.202 Incompatible wanten must not be unless 265.17(b) is complied with.

#### SUBPART N - LANDFILLS

- 265.302(a) Run-on must be diverted away year after the effective date of Part from the active portions within one
- the effective date of Part 265. must be collected within one year after Run-off from active portions
- Must control wind dispersal.
- 265.309 quirements of the surveying and recordkeeping re-The owner or operator must meet 265.309.
- 265.310 sure and post-closure requirements of 265.310. A landfill must comply with clo-
- 265\_312 not be placed in a landfill unless 265.312 is complied with. Ignitable or reactive waste must
- 265313 Incompatible wastes must not be placed in a landfill unless 265. 17(b) is complied with.
- 265.314 Bulk or non-containerized liquid should not be placed in a landfill waste, waste containing free-liquids, unless the requirements of or containers holding liquid waste 265.314

Not in compliance - No Not applicable - NA

No

COMMENTS

...

Ċ,

	265.382 Open burning of hazardous wasted is prohibited except for the open burning and detonation of waste explosives	265.301 At closure, the owner or operator must remove all hazardous waste residues.	265.377 Monitoring and inspections must be conducted as delineated in 265. 377.	265.375 Waste analyses must be conducted pursuant to 265.375.	265.373 Must be at steady state conditions before adding hazardous wastes.	SUBPART P - THERMAL TREATMENT	265.351 At closure, the owner or operator must remove all hazardous waste and hazardous waste residues.	265.347 Monitoring and inspections must be conducted as delineated in 265.347	265.345 Waste analyses must be conducted pursuant to 265.345.	265.343 Must be at steady state conditions before adding hazardous waste.	SUBPART O - INCINERATORS	265.315 (1) Empty containers must be reduced in volume as of one year after the effective date of Part 265.	NEQUENCEME	S B BOTH T B B WENT
				2002			Ę.	. •		afs				Not a
. •		a	-		<i>i</i> /	ře .	(6		-	-		•	No	applicable
	2 11												1	- NA

SUBPART Q - CHEMICAL,	. KEQUERESENT	י דייייייייייייייייייייייייייייייייייי
PHYSICAL, AND		
DINA		-

CAL TREATMENT BIOLOGI-

265,401(a) Must comply with. 265. ·17(b)

- equipment if any failure of equipment placed in the treatment process or or the process would occur. 9 Hazardous waste must not be
- must be equipped with a means to stop the inflow. A continuously-fed process
- 265.402 must be conducted pursuant to Waste analyses and trial tests 265.

100

- 265.403 0 265.403, Inspections must be made pursuant
- 265.404 be removed. and hazardous waste residues must At closure, all hazardous waste
- 265,405 unless 265.405 is complied with. not be placed in a treatment process Ignitable or reactive waste must
- 265,406 be placed in the same treatment proces Incompatible wastes must not 26517(b) is complied with.

#### SUBPART R -UNDERGROUND INJECTION

265.430(a) other requirements of Part 265. ground injection is subject to the requirements of Part 265. .430(a) underground injection of haz-ardous waste is not subject to the closure and post-closure or financial Under-

> Yes Not applicable No. NA

COMPENTS

Other questions or standards.

their waste to this hazardous waste manage-Are there any other generators transporting

Yes No N/ יוסר דיי רמוולידדמווכם ב זאם

COMMENTS

r,

•

Colondas 39701

INTERIM STATUS COMPLIANCE CHECKLIST

SUBPART B - GENERAL FACILITY STANDARDS

#### 265,12 Required Notices

- from a foreign source. The facility owner or operator must weeks in advance of receipt of wastes notify the Director at least four
- ٣ of 40 CFR 265 and 122. owner or operator of the requirements owner or operator must notify the new tion of a facility, the facility's Before transferring ownership or opera-

#### 265.13 General Waste Analysis ...

in accordance with the federal requireto treat, store, or dispose the waste all the information which must be known chemical and physical analysis of or operator must obtain a detailed of haardous waste, the facility owner Before treating, storing, or disposing The analysis must contain

- 35.14 Security to Prevent Unknowing and Unauthorized Access to the Facility
- possibility for unauthorized entry the unknowing entry and minimize the The owner or operator must prevent
- injurious structures, or equipment will not be physical contact with the waste,
- Part 265. will not violate the requirements of <u>></u> disturbance of the waste or equipment

Not applicable - NA Not in compliance -No

$\sim$
6
65
•
-
14
1
C
င္ပ
$\Rightarrow$
_
14
inue
Ξ
<u>~</u>
ä
_

- b) Unless exempt under 265:14 (a)(1) or 402.7-14(a)(2), a facility must have:
- 1) a 24-hour surveillance system
- 2) (1) an artificial or natural barrier which completely surrounds the active portion of the facility
- (11) a means to control entry
- c) A sign warning of the danger of intruding into the facility.

### 265.15 Inspection and Monitoring

- a) The owner or operator must inspect the facility for malfunctions and deterioration, operator errors, or discharges which may be causing or lead to release of hazardous waste constituents to the environment or a threat to human health.
- b) The owner or operator must develop and follow a schedule and plan for inspections.
- c) The owner or operator must take remedial action upon the detection of malfunction or the deterioration of equipment and structures when a hazard is imminent.
- d) The owner or operator must record inspections in an inspection log and must keep the records for at least three years from the date of inspection

Not in compliance - No Not applicable - NA COM

COMMENTS

Security is excellent chain kink tence
Their kink tence
Think I started wind
when los executed wind
when not executing

## 265,16 Facility Personnel Training

a) Facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of Part 265.



- c) There must be an annual review of the initial training in (a) above.
- d) The owner or operator must maintain records of training.
- must be kept until closure of the fact-
- 265.17 General Requirements for Ignitable, Reactive or Incompatible Wastes
- )) The owner or operator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste.
- b) Treatment, storage, or disposal of ignitable or reactive waste and the mixture or commingling of incompatible wastes must be conducted so that it does not:
- Generate extreme heat or pressure, fire or explosion, or violent reaction;
- 2) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient

Not in compliance - No Not applicable - NA Yes No N/A

COMMENTS

A S

265.17 - Continued--

Yes

quantities to threaten human health;

- ယ or gases in sufficient quantities Produce uncontrolled flammable fumes to pose a risk of fire or explosions;
- waste; or Damage the structural integrity of the device or facility containing
- Through other like means threaten human health or the environment.

# SUBPART C - PREPAREDNESS AND PREVENTION

and prevention of releases of hazardous waste controlled by the State. lities must be maintained and Pursuant to 265:30 through operated for 265,37, fact-

### SUBPART D - CONTINGENCY PLANS

contingency plans and emergency procedures Pursuant to hazardous waste, be followed in the event of a release 265.56, facilities must have

#### SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

- 265.71(a)(1-5) the requirements of fest, the owner or operator must meet hazardous waste accompanied by a mani-If a facility receives 265.71(a)(1-5)
- 265.71(b)(1-5) ator must meet the requirements of by a shipping paper, the owner or operhazardous waste which is accompanied from a rail or water transporter, If a facility receives,

Not applicable - NA Not in compliance - No 80 COMMENTS

265.72(a) Upon discovery of significant operator must attempt to reconcile the discrepancy with the waste generator manifest discrepancy, the owner or Yes

or operator must notify the Director. crepancy is not resolved, the owner (b) If a significant manifest dis-

or transporter.

265.73(b) The owner or operator, must keep a written operating record at the facilitywhich meets the requirements of 265.73(b).

265.74(a) upon request and available at all times for inspection by the Director or EPA. All records must be furnished

the facility. local land authority upon closure of be submitted to the Director and the posal locations and quantities must A copy of records of waste dis-

265.75 compliance with the requirements of an annual report to the Director in 265.75. The owner or operator must submit

265.76 The receipt of any unmanifested waste must be reported to the Director

26537 The owner or operator must submit the following occur: a report to the Director if any of

- D 0 releases; fires, explosions
- groundwater contamination
- facility closure.

Not applicable - NA Not in compliance - No In compliance - Yes No N/W

## SUBPART F - GROUNDWATER MONITORING

265.90 of 265.90. within one year of the effective date on the quality of the upper aquifer of determining the facility's impact groundwater monitoring program capable Owner or operator must implement a

265.91 meets the requirements of must install, operate, and maintain a groundwater monitoring system which 265-94. 265.94 The owner and operator 265,91 -

265.90(c) All of the groundwater monitorwells or to surface water. below the facility to water supply the facility via the uppermost aquifer of hazardous waste constituents from owner or operator can demonstrate that there is a low potential for migration ing requirements may be waived if the

## SUBPART G - CLOSURE AND POST-CLOSURE

- 265.111 The owner or operator must close his facility in a manner that:
- tenance, and minimizes the need for future main-
- waste. post-closure escape 2) controls, minimizes, or eliminates of hazardous
- 265.112(a) effective date of Part 265. have a written closure plan on the The owner or operator must

Yes Not applicable - NA Not in compliance - No In compliance - Yes No O

265:112(a) Continued--

The closure plan must include:

- if applicable, and ultimately closed. facility will be partially closed, A description of how and when the
- at any given time. tory of wastes in storage or treatment An estimate of the maximum inven-
- equipment Steps to decontaminate facility
- pletion of final closure, and intervenpated dates when wastes will no longer be received, anticipated date for commust include, as a minimum, anticiing milestone dates. A schedule for final closure which
- 265.113(a) within 90 days after receiving the. final volume of hazardous wastes. .Closure must be initiated
- volume of wastes, six months after receiving the final complete closure activities within (b) The owner or operator must
- 265.114 Upon completion of closure, all equipment and structures must be properly disposed of or decontaminated.
- 265.115 The owner or operator and an indethe approved closure plan. has been closed in accordance with neer must certify that the facility pendent registered professional engi-

Not applicable - NA Not in compliance - No In compliance - Yes

Yes

In compliance - Yes

265.117(a) of at least; Post closure care must consist

- Groundwater monitoring
- 2) Maintenance of the contaminant system.

date of Part 265 and it must include: a post-closure plan on the effective The owner or operator must have

- and frequency. Groundwater monitoring activities
- cap, final cover, or other containment structures, and functions of the facicies to ensure the integrity of the 2) Maintenance activities and frequenlities monitoring equipment.
- survey plat of the facility. the owner or operator must submit a Within 90 days after closure,
- 265.120 The owner or operator must record has been used to manage hazardous waste a notice on the deed that the land

## SUBPART H - FINANCIAL REQUIREMENTS

265.142(a) of closure and post-closure costs. develop and maintain a current estimate The owner or operator must

## SUBPART I - OTHER FACILITY STANDARDS

265.170 be compatible with the waste to be stored. 265.172 The container must

> Not in compliance - No Not applicable - NA

No

nontransce # 100

265.173 must be kept closed and must not be which may cause a rupture or leak. opened, handled, or stored in a manner Containers holding hazardous waste

265.174 must be inspected weekly. Areas where containers are stored

265.176 Containers holding ignitable or line. 15 meters from the facility's property reactive waste must be located at least

265.177(a) Incompatible wastes must not be placed in the same container.

nearby must be separated or protected with any waste or other materials stored a hazardous waste that is incompatible from the other materials. A storage container holding

#### SUBPART J - TANKS

265.192 (b) or its liner to leak. in a tank if they could cause the tank Hazardous waste must be placed

- or exceeds the volume of the top two feet of the tank. structures with a capacity that equals control system, or other diversion other containment structures, a drainage least two feet of freeboard unless (c) Uncovered tanks must have a
- means to stop the inflow. feed system must be equipped with a (d) Tanks which have a continuous

i	C
ŀ	0
	Z
ŀ	ヹ
	ᅜ
	Z
١	$\mathbf{H}$
	മ

Not in compliance - No Not applicable - NA

**7**0

pursuant to 265.13, and	265,193 Waste analysis must be	
. 265,193(a)	conducted	

265.194 Tanks must be inspected in accordance with 265.194.

265.197 At closure, all hazardous waste and hazardous waste residues must be removed from the tanks.

265.198 Ignitable or reactive waste should not be placed in a tank unless 265. 198 is complied with.

265.199 Incompatible wastes must not be placed in the same tank unless 265. 176 is complied with.

## SUBPART K - SURFACE IMPOUNDMENTS

265.222 Must maintain at least two feet of freeboard.

265.223 Earthen dikes must have protective cover.

265.225 Must conduct waste analyses and trial tests in accordance with 265.

265.226(1) Must inspect the freeboard level at least once each operating day.

(2) Must inspect the surface impoundment at least once a week to detect any leaks, deterioration, or failure.

265.228 The surface impoundment must close in accordance with 265.228.

.

Not in compliance - No Not applicable - NA

ur.less	ווטנ	265.229
SS	ре	Ig
265.229	placed	Ignitable
29	Ín	9
2	æ	
complied	surface	reactive
ed with.	impoundment	waste must

265.230 Incompatible wastes must not be placed in the same surface impoundment unless 265.17(b) is complied with.

#### SUBPART L - WASTE PILES

- 265.251 A waste pile must be protected and managed to control wind dispersal.
- 265.252 An owner or operator must conduct waste analyses unless the facility meets the exemptions of 265.252.
- 265.253 Within one year after the effective date of the regulations, leachate or run-off from a pile must be controlled pursuant to 265.253.
- 265.256 Ignitable or reactive waste must not be placed in a waste site unless 265.256 is complied with.
- 265.257 The requirements of 265.257 for incompatible wastes must be complied with.

### SUBPART M - LAND TREATMENT

- 265.272(a) Hazardous waste must not be placed at a land treatment facility unless it can be made less hazardous or non-hazardous.
- (b) Run-on must be diverted away from other active portions as of one year after the effective date of Part 265.

reactive waste must
surface impoundment
s complied with.

wastes must not be
surface impoundment
is complied with.

must be protected
must be protected

265.272 -- Continued

- (c) Run-off from active portions must be collected as of one year after the effective date of Part 265 ...
- 265.273 Waste analyses must be conducted pursuant to 265.273.
- the State Director within 60 days after the effective date of Part 265 if food chain crops are grown on the land treatment facility.
- (b) Food chain crops must not be grown on the treated area of a hazard-ous waste land treatment facility unless 265.276(b) is complied with.
- (c) Food chain crops must not be grown on a land treatment facility receiving waste that contains cadmium unless 265.276(c) is complied with.
- 265.278 The owner or operator must have in writing and must implement an unsaturated zone monitoring plan pursuant to 265.278.
- 265.279 The owner or operator must keep records of the application dates, application rates, quantities, and location of each hazardous waste placed in a facility.
- 265.280 A land treatment facility must meet the closure and post-closure requirements of 265.280.

Not in compliance - No Not applicable - NA

Yes

No

N/A

	•		waste, waste containing free-lior containers holding liquid we should not be placed in a landfunless the requirements of 20
	•		265.314 Bulk or non-containerized liquid
			265313 Incompatible wastes must not be placed in a landfill unless 265 17(b) is complied with.
75	- · ·		265.312 Ignitable or reactive waste must not be placed in a landfill unless 265.312 is complied with.
			265.310 A landfill must comply with closure and post-closure requirements of 265.310.
			265.309 The owner or operator must meet the surveying and recordkeeping requirements of 265.309.
		-	(d) Must control wind dispersal.
			(b) Run-off from active portions must be collected within one year after the effective date of Part 265.
	э		265.302(a) Run-on must be diverted away from the active portions within one year after the effective date of Part 265.
(( <b>v</b> ))		· · · · · · · · · · · · · · · · · · ·	CE
	i.	·	265.282 Incompatible wanten munt not be placed in the same land treatment area inless 265.17(b) is compiled with
	•	G.	265.281 Ignitable or reactive waste must not be placed in a land treatment faci- lity unless 265.281 is complied with.
1 1		1 1	REQUENTIFIER
zes NA No	compilance - x in compliance applicable - )	In comp	DECUITBENENT

,ŧ

SUBPART Q - CHEMICAL,

PHYSICAL,

AND BIOLOGI-

CAL TREATMENT

Not in compliance - No

Yes S O

265,401(a) Must comply with. 265. ·17(b)

- or the process would occur. equipment if any failure of equipment placed 9 in the treatment process or Hazardous waste must not be
- must be equipped with a means to stop the inflow. A continuously-fed process
- 265.402 must be conducted pursuant to Waste analyses and trial 265. tests
- 265.403 G 265.403. Inspections must be made pursuant
- 265.404 and hazardous waste residues must be removed, At closure, all hazardous waste
- 265.405 unless not be placed in a treatment process Ignitable or reactive waste must 265.405 is complied with.
- 265,406 Incompatible wastes must not be placed in the same treatment proces 26517(b) is complied with.

## SUBPART R - UNDERGROUND INJECTION.

265.430(a) other requirements of Part ground injection is subject to the requirements of Part 265. closure and post-closure or financial ardous waste is not subject to the underground injection of haz-265. Under-

> Not applicable - NA to companion

					Are there any other generators transporting their waste to this hazardous waste management facility?	Other questions or standards.	REQUIRENENT
				#3 ·	transporting vaste manage-		
2.0		=	167			Yes	Not in
	 				·.	No	C 01
	s 9' 0	<del></del>				N/A	
		**		5 <b>4</b>			COMMENTS

INTERIM STATUS COMPLIANCE CHECKLIST

"The inspector's report will be mailed to this facility within the next five (5) calendar days.	This facility made a copy of the inspection report.	Employee's Signature Inspector's Signature Date	of the aforementioned Hazardous Waste Management of the aforementioned Hazardous Waste Management of the Maste Disposal Law of 1974, as amended, that must comply with the Mississippi Hazardous Waste an inspection was made and also acknowledge the 1974, 1975, 1977,	I,, being an employee of	INSTALLATION CONTACT PERSON Cilbert Lowe TITLE OF PERSON CONTACTED Superintendent OTHER PERMITS  a. NPDES NUMBERS b. AIR PERMIT NUMBERS	INSPECTORS Jim Hardage  David Lee	ING A	FACILITY EPA I.D. NO. MSD 990866329
<sup>Еу</sup>			rementioned Hazardous Waste Management Facility. Isposal Law of 1974, as amended, that the above with the Mississippi Hazardous Waste Regulations, ion was made and also acknowledge the violations 19		perintendent			

# SUBPART B - GENERAL FACILITY STANDARDS

### 402.7-12 Required Notices

- a) The facility owner or operator must notify the Director at least four weeks in advance of receipt of wastes from a foreign source.
- b) Before transferring ownership or operation of a facility, the facility's owner or operator must notify the new owner or operator of the requirements of 40 CFK 265 and 122.

## 402.7-13 General Waste Analysis

Before treating, storing, or disposing of haardous waste, the facility owner or operator must obtain a detailed chemical and physical analysis of wastes. The analysis must contain all the information which must be known to treat, store, or dispose the waste in accordance with the federal requirements.

# 02.7-14 Security to Prevent Unknowing and Unauthorized Access to the Facility

a

- The owner or operator must prevent the unknowing entry and minimize the possibility for unauthorized entry unless:
- physical contact with the waste, structures, or equipment will not be injurious
- 2) disturbance of the waste or equipment will not violate the requirements of Part 265. 461.7

In compliance - Yes
Not in compliance - No
Not applicable - NA
Yes No N/A

COMMENTS

EP Toxicity Test

	· .	6	The owner or operator must record in- spections in an inspection log and must keep the records for at least three years from the date of inspection.	d)
		Yes	The owner or operator must take remedial action upon the detection of malfunction or the deterioration of equipment and structures when a hazard is imminent.	c)
		468	The owner or operator must develop and follow a schedule and plan for inspections.	<b>b</b> )
		/es	The owner or operator must inspect the facility for malfunctions and deterioration, operator errors, or discharges which may be causing or lead to release of hazardous waste constituents to the environment or a threat to human health.	<u>a</u>
			7-15 Inspection and Monitoring	402.7-15
		468	(ii) a means to control entry A sign warning of the danger of intrud- ing into the facility.	e (
		Yes	<ol> <li>(i) an artificial or natural barries which completely surrounds the active portion of the facility</li> </ol>	
U/A	Jes		<ol> <li>a 24-hour surveillance system</li> </ol>	
			Unless exempt under $402.7-14$ (a)(1) or $402.7-14$ (a)(2), a facility must have:	b)
'N/A	No.	Yes	402.7-14 - Continued	402.7
xes e - No NA	compliance - You applicable - 1	com in	REQUIREMENT	REQU

in contingency plan

2) Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient	1) Generate extreme heat or pressure, fire or explosion, or violent reaction;	b) Treatment, storage, or disposal of ignitable or reactive waste and the mixture or commingling of incompatible wastes must be conducted so that it does not:	a) The owner or operator must take pre- cautions to prevent accidental igni- tion or reaction of ignitable or reac- tive waste.	402.7-17 General Requirements for Ignitable, Reactive or Incompatible Wastes	<ul> <li>e) Training records on current personnel must be kept until closure of the faci- lity.</li> </ul>	d) The owner or operator must maintain records of training.	c) There must be an annual review of the initial training in (a) above.	b) The training program must be completed within six months of the effective date of Part 265, 402,7	a) Facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of Part 265.	7-	REQUIREMENT
				967		Yes		Z	2	Yes	
·	•								×	No	complia
			N	N/A			N/A			A/N	nce 7
					HAVE until May 1; 1981 to complete.				In process.		COMMENTS

1	Ē
1	C.
ı	_
1	_
1	
	-
	~
•	
	-
	F-
ı	Ē
- 2	
	_
1	_
Ŧ	LŦ
4	-
	_
1	-
R	

402.7-17 - Continued--

quantities to threaten human health;

- Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;
- 4) Damage the structural integrity of the device or facility containing waste; or
- 5) Through other like means threaten human health or the environment.

# SUBPART C - PREPAREDNESS AND PREVENTION

Pursuant to 402.7-30 through 402.7-37, facilities must be maintained and operated for and prevention of releases of hazardous wastes controlled by the State.

### SUBPART D - CONTINGENCY PLANS

Pursuant to 402.7-56, facilities must have contingency plans and emergency procedures to be followed in the event of a release of hazardous waste.

Je s

# SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

- 402.7-71(a)(1-5) If a facility receives hazardous waste accompanied by a manifest, the owner or operator must meet the requirements of 402.7-71(a)(1-5)
- 402.7-71(b)(1-5) If a facility receives, from a rail or water transporter, hazardous waste which is accompanied by a shipping paper, the owner or operator must meet the requirements of 402.7-71.

In compliance - Yes
Not in compliance - No
Not applicable - NA
Yes
No N/A

COMMENTS

1/NA

**3** 

402.7-72(a)

manifest discrepancy, the owner or

Upon discovery of significant

operator must attempt to reconcile

the discrepancy with the waste generator

Not applicable - NA

Yes

or operator must notify the Director. crepancy is not resolved, the owner If a significant manifest dis-

or transporter.

02.7-73(b) The owner or operator must keep a written operating record at the faci-402.7-73(b). lity which meets the requirements of

402.7-74(a) All records must be furnished for inspection by the Director or EPA. upon request and available at all times

the facility. local land authority upon closure of be submitted to the Director and the posal locations and quantities must A copy of records of waste dis-

402.7-75 an annual report to the Director in compliance with the requirements of The owner or operator must submit

402.7-76 The receipt of any unmanifested waste must be reported to the Director

402.7-77 The owner or operator must submit a report to the Director if any of the following occur:

- releases, fires, explosions
- Ω, groundwater contamination
- facility closure.

Not in compliance - No In compliance - Yes

## SUBPART F - GROUNDWATER MONITORING

402.7-90 within one year of the effective date of determining the facility's impact of 402.7-90. on the quality of the upper aquifer groundwater monitoring program capable Owner or operator must implement a

02.7 - 91 - 402.7 - 94must install, operate, and maintain meets the requirements of 402.7-91 a groundwater monitoring system which 402.7-94. The owner and operator

402.7-90(c) All of the groundwater monitorof hazardous waste constituents from wells or to surface water. below the facility to water supply owner or operator can demonstrate that ing requirements may be waived if the the facility via the uppermost aquifer there is a low potential for migration

## SUBPART G - CLOSURE AND POST-CLOSURE

his facility in a manner that: The owner or operator must close

- tenance, and minimizes the need for future main-
- post-closure escape of hazardous 2) controls, minimizes, or eliminates
- 402.7-112(a) effective date of Part 402.7. have a written closure plan on the The owner or operator must

Not applicable - NA Not in compliance - No In compliance - Yes

No N/A

COMMENTS

Study in progress

Z

Effective date has been extended to May 19, 1981 by EPA.

402.7-112(a) Continued--

The closure plan must include:

if applicable, and ultimately closed. facility will be partially closed, A description of how and when the

- at any given time. 2) An estimate of the maximum inventory of wastes in storage or treatment
- equipment. Steps to decontaminate facility
- pletion of final closure, and intervenpated dates when wastes will no longer must include, as a minimum, anticiing milestone dates. be received, anticipated date for com-A schedule for final closure which
- 402.7-113(a) within 90 days after receiving the final volume of hazardous wastes. Closure must be initiated
- six months after receiving the final complete closure activities within volume of wastes The owner or operator must
- 402.7-114 Upon completion of closure, all equipment and structures must be properly disposed of or decontaminated.
- 402.7-115 The owner or operator and an inde the approved closure plan. has been closed in accordance with neer must certify that the facility pendent registered professional engi-

Not applicable - NA Not in compliance - No In compliance - Yes

N/A

SUBPART I - OTHER FACILITY STANDARDS  402.7-170 - 402.7-172 The container must be compatible with the waste to be stored.	402.7-142(a) The owner or operator must develop and maintain a current estimate of closure and post-closure costs.	402.7-120 The owner or operator must record a notice on the deed that the land has been used to manage hazardous waste.  SUBPART H - FINANCIAL REQUIREMENTS	402.7-119 Within 90 days after closure, the owner or operator must submit a survey plat of the facility.	2) Maintenance activities and frequencies to ensure the integrity of the cap, final cover, or other containment structures, and functions of the facilities monitoring equipment.	<ol> <li>Groundwater monitoring activities and frequency.</li> </ol>	The owner or operator must have a post-closure plan on the effective date of Part 402.7 and it must include:	2) Maintenance of the contaminant system.	1) Groundwater monitoring	402.7-117(a) Post closure care must consist of at least:	REQUIREMENT
 · W/A	NA	-							>	In compliance - Yes Not in compliance - No Not applicable - NA
	Effectiv									COMMENTS

ffective date is May 19, 1981

Not applicable - NA Not in compliance - No In compliance - Yes

No

N/A

402.7-173 Containers holding hazardous waste must be kept closed and must not be opened, handled, or stored in a manner which may cause a rupture or leak.

402.7-174 must be inspected weekly. Areas where containers are stored

É

402.7-176 Containers holding ignitable or reactive waste must be located at least 15 meters from the facility's property

402.7-177(a) Incompatible wastes must not be placed in the same container.

nearby must be separated or protected with any waste or other materials stored a hazardous waste that is incompatible from the other materials. (b) A storage container holding

#### SUBPART J - TANKS

402.7-192(b) Hazardous waste must be placed or its liner to leak. in a tank if they could cause the tank

- feet of the tank. or exceeds the volume of the top two structures with a capacity that equals control system, or other diversion other containment structures, a drainage least two feet of freeboard unless (c) Uncovered tanks must have a
- means to stop the inflow. feed system must be equipped with a (d) Tanks which have a continuous

COMMENTS

for temporary storage, in use. May be used at a leter date Existing storage tank is not currently

REQUIREMENT  402.7-193 Waste analysis must be conducted pursuant to 402.7-13, and 402.7-193(a).	Yes Yes	applicable No	N/A	la
402.7-194 Tanks must be inspected in accordance with 402.7-194.		= =		
402.7-197 At closure, all hazardous waste and hazardous waste residues must be removed from the tanks.			·	
402.7-198 Ignitable or reactive waste should not be placed in a tank unless 402.7-198 is complied with.	ρ			
402.7-199 Incompatible wastes must not be placed in the same tank unless 402.7-176 is complied with.		ži.	8	
SUBPART K - SURFACE IMPOUNDMENTS				
402.7-222 Must maintain at least two feet of freeboard.	4.68			<i>که</i> د
402.7-223 Earthen dikes must have protective cover.	408		·	ロま
402.7-225 Must conduct waste analyses and trial tests in accordance with 402.7-225.			NA	
402.7-226(1) Must inspect the freeboard level at least once each operating day.	Yes			
(2) Must inspect the surface impoundment at least once a week to detect any leaks, deterioration, or failure.	· Les	· ·		
402.7-228 The surface impoundment must close in accordance with 402.7-228.				

Polishing pond has less than 2 ft, of freeboard. Doubtful if it would ever overflow. Discharge goes to city sewer system.

In compliance - Yes
Not in compliance - No

No.

gnitable or reactive placed in a surface 402.7-229 is complie	ur.1	tot	402.,-229
	is complied with	be placed in a s	Ignitable or reactive

402.7-230 Incompatible wastes must not be placed in the same surface impoundment unless 402.7-17(b) is complied with.

#### SUBPART L - WASTE PILES

N/A

402.7-251 A waste pile must be protected and managed to control wind dispersal.

402.7-252 An owner or operator must conduct waste analyses unless the facility meets the exemptions of 402.7-252.

402.7-253 Within one year after the effective date of the regulations, leachate or run-off from a pile must be controlled pursuant to 402.7-253.

402.7-256 Ignitable or reactive waste must not be placed in a waste site unless 402.7-256 is complied with.

402.7-257 The requirements of 402.7-257 for incompatible wastes must be complied with.

### SUBPART M - LAND TREATMENT

- 402.7-272(a) Hazardous waste must not be placed at a land treatment facility unless it can be made less hazardous or non-hazardous.
- (b) Run-on must be diverted away from other active portions as of one year after the effective date of Part 265.

۱. ز

ž

#### 402.7-272 -- Continued

- must be collected as of one year after the effective date of Part 402.7. Run-off from active portions
- 402.7-273 Waste analyses must be conducted pursuant to 402.7-273.
- 402.7-276(a) An owner or operator must notify the State Director within 60 days after treatment facility. food chain crops are grown on the land the effective date of Part 402.7 if
- less 402.7-276(b) is complied with. ous waste land treatment facility ungrown on the treated area of a hazard-Food chain crops must not be
- unless 402.7-276(c) is complied with. receiving waste that contains cadmium grown on a land treatment facility Food chain crops must not be
- 402.7-278 in writing and must implement an unto 402.7-278. saturated zone monitoring plan pursuant The owner or operator must have
- 402.7-279 The owner or operator must keep in a facility. tion of each hazardous waste placed lication rates, quantities, and locarecords of the application dates, app-
- 402.7-280 meet the closure and post-closure requirements of 402.7-280. A land treatment facility must

Not in compliance - No Not applicable - NA ru combinance - res

COMMENTS

· N/A

Yes

1	$\sim$
I	T
ŧ	
ſ	=
1	_
l	١-
١	<u></u>
1	$\sim$
ł	Ē.
1	:マ
ł	$\blacksquare$
ŧ	L^.
1	Z
1	j
ı	•
ŧ	

402./-281 Ignitable or reactive waste on not be placed in a land treatment lity unless 402.7-281 is complied
--

402.7-282 Incompatible wastes must not be unless 402.7-17(b) is complied with. placed in the same land treatment area

#### SUBPART N - LANDFILLS

EX Ex

402.7-302(a) Run-on must be diverted away 402.7. year after the effective date of Part from the active portions within one

- must be collected within one year after the effective date of Part 402.7. ਉ Run-off from active portions
- Must control wind dispersal.
- 402.7-309 the surveying and recordkeeping requirements of 402.7-309. The owner or operator must meet
- 402.7-310 of 402.7-310. sure and post-closure requirements A landfill must comply with clo-
- 402.7-312 not be placed in a landfill unless 402.7-312 is complied with. Ignitable or reactive waste must
- 402.7-313 Incompatible wastes must not be placed in a landfill unless 402.7-17(b) is complied with.
- 402.7-314 Bulk or non-containerized liquid are complied with. should not be placed in a landfill or containers holding liquid waste waste, waste containing free-liquids, unless the requirements of 402.7-314

Not applicable - NA Not in compliance - No In compliance - Yes

No

N/A

l	õ
i	$\mathcal{O}$
ł	$\subset$
I	$\vec{H}$
ľ	×
l	Ħ
1	7
ĺ	Ħ
ı	z
l	刁
ł	

3

402.7-315 (i) duced in volume as of one year after the effective date of Part 402.7. Empty containers must be re-

### SUBPART 0 - INCINERATORS

402.7-343 Must be at steady state conditions before adding hazardous waste.

.402.7-345 Waste analyses must be conducted pursuant to 402.7-345.

102.7-347 Monitoring and inspections must be conducted as delineated in 402;7-347.

must remove all hazardous waste and hazardous waste residues. At closure, the owner or operator

### SUBPART P - THERMAL TREATMENT

402.7-373 Must be at steady state conditions before adding hazardous wastes.

401.7-375 Waste analyses must be conducted pursuant to 402.7-375.

402.7-377 Monitoring and inspections must be conducted as delineated in 402.7-

402.7-301 At closure, the owner or operaresidues tor must remove all hazardous waste

402.7-382 Open burning of hazardous waste ing and detonation of waste explosives is prohibited except for the open burn-

> Not applicable - NA Not in compliance - No ın compilance - Yes

COMMENTS

ON.

N/A

SUBPART Q - CHEMICAL, CAL TREATMENT PHYSICAL, AND BIOLOGI-

402.7-401(a) Must comply with 402.7-17(b).

- or the process would occur. equipment if any failure of equipment placed in the treatment process or 9 Hazardous waste must not be
- must be equipped with a means to stop the inflow. <u>ල</u> A continuously-fed process
- 402.7-402 Waste analyses and trial must be conducted pursuant to 402.7-402. tests
- 402.7-403 Inspections must be made pursuant to 402.7-403.
- 402.7-404 be removed. and hazardous waste residues must At closure, all hazardous waste
- 402.7-405 Ignitable or reactive waste must unless 402.7-405 is complied with. not be placed in a treatment process
- 402.7-406 Incompatible wastes must not unless 402.7-17(b) is complied with. be placed in the same treatment proces

## SUBPART R - UNDERGROUND INJECTION

402.7-430(a) other requirements of Part 402.7. requirements of Part 402.7. Underground injection is subject to the closure and post-closure or financial ardous waste is not subject to the underground injection of haz-

> Not applicable - NA Not in compliance - No. In compliance - Yes

Yes

No

N/A

.

COMMENTS

Other questions or standards.

Are there any other generators transporting their waste to this hazardous waste management facility?

	Yes	Not	Not	In
_		ap	'n	mo;
	No	applicable	compliance	compliance -
	A/N	- NA	ce - No	Yes

	ANAGEMENT BRANCH ACTIVITY'S FORM	
FACILITY NAME: Ken-Mc se-	Forest Products	
FACILITY ADDRESS: 507 145 ST	, North Columbus, MS 39701	
FACILITY LOCATION:		
FACILITY CONTACT: Gilbert Lowe	PHONE NO: 328-755/	
COMMENTS:		
COMMENTS: See attached inapectes	a form.	
facility code note:	agoons TR+LO codes: are for same facility	
realment conducted in la	agoons The 20 constant for the	
-	·	Š
•	6	
	, a	
	*	
	$\wedge \cdot \gamma / = A_{-}$	
	Jim Hardage	
	Stignature of In	spector
FACILITY ID NUMBER  MIS ID 19 19 10 18 16 16 13 12 19 1	DATE 10 '4 \2 2 8 1	
MIS D 9 9 0 8 6 6 3 2 9 1 INSPECTOR (Single letter code)		
DHI		
TYPE ACTIVITY (Enter code(s))		
	TO - training operator	
CI - compliance inspection FO - follow-up inspection	MO - monitoring	
CO - complaint investigation	n TA - technical assistance	
IS - interim status inspecti	-	
SI - site investigation GB - geological boring	OR - other (specify)	4.5
db geological boxing		4
TYPE FACILITY (Enter code(s))		
G'NT'R L'O	TV 1 15	
GN - generator	LM - landfarm	
TR - treater TP - transporter	LO - lagoon (impoundment) UI - UIC	
SS - storage (short-term)	IN - incinerator	
SL - storage (long-term)	PF - processing facility	**
LF - landfill	TS - transfer station	8
SF - sanitary landfill	OR - other (specify)	
OD - open dump	* * **	
	·	
VIOLATIONS		
Section No. Subsection * under	er subsection indicates ontire - 1	1
	er subsection indicates entire subpart violate	2d ·

#### SPECIAL WASTE SURVEY FORM

#### MISSISSIPPI STATE BOARD OF HEALTH

M.S.B.H. Class S. I. C. Ad. info	2491

Please	Туре	or	Print:
--------	------	----	--------

1	. County in which industry is located: LOWNDES
2	Name of industry: KORR-MCGOT CARM. CORP., FOX. PROD. DIV.
3.	
4.	Product(s) manufactured: wood Classifics + poles
5.	Person completing form: (a) Name PC GASKIN
	(b) Title Supr., Oual. Cont. (c) Organization Same-
6.	
	(a) Average daily 220 CST. (b) Maximum daily 260 CST.
7.	Normal periods of operation of the industry: (a) Hours/day 24
	(b) Days/week 6 (c) Weeks/month 57 (d) Months/year 17
8.	Composition of the waste LOOD Blacks, CAIPS, DUST, POLE GNDS,
	DRY SCUDGE FROM AASTEWATER TREATMENT
9.	Other characteristics (a) Percent water <u>NA</u> (b) Specific gravity <u>MA</u>
	(c) Solubility in water (ambient air temperature range)
10.	Present disposal site: (a) Owner Nant property
	(b) Location SAM(-
11.	Distance to present disposal site: miles.
12.	Annual disposal cost: WNK.
13.	Is any portion of the waste treated before disposal?   If yes, describe this process in Item No. 15.
14.	Is any portion of the waste salvaged or recycled?  If yes, describe this operation in Item No. 15.
15.	On an attached sheet, briefly describe the raw materials utilized, the manufacturing process, the source and composition of any solids resulting from air pollution control and wastewater treatment processes.

pollution control and wastewater treatment processes, and the source and

if available, of any wastes whose final disposition is land disposal.

composition of any other solid wastes generated. Attach any chemical analyses,

#### COLUMBUS

Item 15:

Creosote is used as the preservative in pressure treating wood crossties, lumber and poles.

The sludge accumulating from the dewatering beds are raked after drying for about three (3) months. This sludge and sand amounts to only about six (6) cubic feet (EST) every three (3) months.

The remaining waste is the wood resulting from the manufacture of crossties and poles. Approximately 2/3 rds. (EST) of this amount is re-cycled either as fuel or for sale as pulp.





#### REGION IV

#### 345 COURTLAND STREET ATLANTA, GEORGIA 30365

DEC 3 1987

4WD-RCRA

Mr. Sam Mabry, Director
Hazardous Waste Division
Bureau of Pollution Control
Mississippi Department of Natural
Resources
Post Office Box 10385
Jackson, Mississippi 39209

ASI E. 1990 DEC - 7 1987

Dept. of Natural Hesc. 168 Bureau of Pollution Control

RE: New Supplier of Liability Insurance Coverage

Dear Mr. Mabry:

EPA, Region IV received the enclosed letter stating this company is now offering liability coverage for Treatment, Storage and Disposal (TSDs) facilities operating under Resource Conservation and Recovery Act.

If you have any questions, please contact J. R. Finney II of my staff at (404) 347-7603.

Sincerely yours,

James UH. Scarbrough, P.E.

Chief, RCRA Branch

Waste Management Division

Enclosure

cc/enclosure:

Chuck Estes, MS Bureau of Pollution Control

November 20, 1987

EPA Region IV Hazardous Waste Management Division 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Sir:

The purpose of this letter is to inform you and your staff of the availability of sudden accidental liability insurance for hazardous waste storage and treatment facilities. The policy limits are \$1 million per occurrence and \$2 million annual aggregate, exclusive of legal defense costs.

For more information please contact:

Mr. Frank Craemer United Coastal Insurance Co. One Corporate Center Hartford, Ct. 06103

(203) 560-1670

Sincerely yours,

Stuart A. Kessler

President

SAK/c





(()), 4,=;=

November 20, 1987

EPA Region IV Hazardous Waste Management Division 345 Courtland Street, N.E. Atlanta, Georgia 30365

Dear Sir:

The purpose of this letter is to inform you and your staff of the availability of sudden accidental liability insurance for hazardous waste storage and treatment facilities. The policy limits are \$1 million per occurrence and \$2 million annual aggregate, exclusive of legal defense costs.

For more information please contact:

Mr. Frank Craemer United Coastal Insurance Co. One Corporate Center Hartford, Ct. 06103

(203) 560-1670

Syncerely yours,

Stuart A. Kessler

President

SAK/c



November 6, 1987

KERR-McGEE CENTER . OKLAHOMA CITY, OKLAHOMA 73125

RECEIVED

MOV - 9 1987

Nancy E. Jones Mississippi Department of Natural Resources Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi 39209

Dept. of Natural desources Bureau of Poliution Control

Dear Ms. Jones:

I am writing to document your phone conversation with David Farris of Tuesday, November 3, regarding your comments on the Post-Closure Plan for the Kerr-McGee Chemical Corporation, Forest Products Division (KMCC-FPD) Columbus, Missis-sippi facility. KMCC-FPD feels that the proposal to establish a contamination detection criterion above the analytical detection limit for the KOOl constituent chemicals is justified based upon previous experience with similar groundwater monitoring systems at other wood treating facilities.

The primary reason KMCC-FPD suggests a total KOOl constituent level of 150 ppb in one well for one sampling event as a determinant of groundwater contamination is that our experience has been that the irregular presence of one or two constituents at levels slightly above detection limits is not a reliable indincator. We have observed several cases in which a sampling event which revealed some low level of one or two constituents will trigger a full scale groundwater assessment which does not ultimately support the original conclusion.

The level we suggested, 150 ppb, is proposed from our knowledge of historical groundwater monitoring data at other facilities. When contamination is detected and later confirmed, it inevitably appears at levels considerably higher than 150 ppb. We feel that this concentration of total KOOl constituents is a conservative indicator of contamination at the Columbus facility.

Thank you very much for your patience and willingness to consider our proposal. Please feel free to call me at 405/270-2391 should you have any questions. We will wait until we receive a final determination from your office on this point before we submit the changes to the Post-Closure Plan which you requested in your letter of October 16.

DATE Sent a copy to	VISION OF	SOLID WAS	STE
COMMENTS Sent a copy to	VIEWED B	Υ	
1	TE		
1100	MMENTS.	Sent a co	By to
EPA 11-9-87	EPA 11-9	7-87	' U

Sincerely,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

Jeffrey H. Bull, Manager Environmental Control and Regulatory Affairs

JHB:wpc

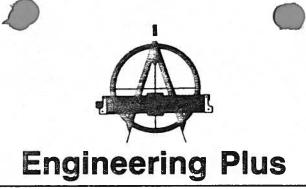
cc: E. L. Creekmore

S. M. Logan

J. H. Bull

J. K. Roseman





OCT 2 1 1987

Dept. of Natural Resources
Bureau of Pollution Control

Planning • Surveying • Testing • Landscape Architecture

1724-B 23rd. Ave. Meridian, Mississippi 39301 (601) 693-4234

October 20, 1987

Mr. E. L. Creekmore, Plant Superintendent Kerr-McGee Chemical Corporation P. O. Box 906 Columbus, MS 39701

RE: ENGINEERING SITE SURVEY COLUMBUS PLANT

Dear Mr. Creekmore:

In accordance with your field services agreement with Engineering Plus, Inc. I made a site survey of the closed hazardous waste lagoon impoundment. This was a visual observation primarily to address the issue of subsidence but also making a general inspection of the site. The following were my observations:

- 1. The enclosed site is a well graded, well drained area encompassing approximately four times as much area as the impoundment lagoon.
- 2. The site is covered to a depth of approximately six inches with a graded gravel.
- 3. Drainage occurs along the southeastern edge of the impoundment lagoon and along the northwestern edge of the impoundment lagoon. Drainage is to the northeast.
- 4. The entire area is within a chain link fence with a locked gate.
- 5. There has been some vehicular traffic on the lagoon impoundment. This has caused rutting and in several instances turning movements have displaced the gravel to a point where the backfill material is exposed. This could cause erosion problems and should be corrected.
- 6. Along the southeastern portion of the impoundment area the shoulder of the ditch has been disturbed by vehicular traffic and has caused erosion in approximately four places.
- 7. There has been no subsidence in the lagoon impoundment fill.
- 8. The entire site is well kept, well drained and in excellent condition. There is no evidence at all of any leakage from the impoundment lagoon.

Mr. E. L. Creekmore, Plant Superintendent Page 2 October 20, 1987

As you and I discussed on Tuesday, October 13, 1987, you will insure that vehicular traffic is kept off of the impoundment area and that the ruts and tracks are well graded and smoothed over. Other than these minor erosions and vehicular traffic problems, the site is in excellent condition and should not be any problem in the near future.

Yours very truly,

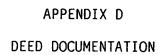
Richard A. Dixon, P.E.

MS Registration No. 4343

RAD:bg

cc: Mississippi Bureau of Pollution Control

Attn. MS Nancy Jones







## CONTROLLED INDUSTRIAL WASTE DISPOSAL SITE DESIGNATION

#### KNOW ALL MEN BY THESE PRESENT:

THAT, for the purposes of complying with Part 265 of the Mississippi Department of Natural Resources, Bureau of Pollution Control, Hazardous Waste Management Regulations, Kerr-McGee Chemical Corporation, Forest Products Division, designates the following non-commercial controlled industrial waste site in Lowndes County, Mississippi:

Commencing at point marking the Southwest corner of Lot 5, Block 2, Industrial City Addition, as recorded in Plat Book 1, Page 52 of the Lowndes County Chancery records, Lowndes County, Mississippi; run thence South 78 degrees 8 minutes East 327.7 ft. to the POINT OF BEGINNING of the herein described tract:

Run thence South 48 degrees 47 minutes East 73.6 ft. to a point; Run thence South 44 degrees 03 minutes West 333.2 ft. to a point; Run thence South 76 degrees 31 minutes West 35.6 ft. to a point; Run thence North 47 degrees 27 minutes West 105.2 ft. to a point; Run thence North 04 degrees 14 minutes East 46.9 ft. to a point; Run thence North 57 degrees 49 minutes East 335.2 ft. to the POINT OF BEGINNING, containing 0.96 acres, more or less, and being situated in the SW/4 of Section 10, Township 17 South, Range 18 West, Lowndes County, Mississippi.

The area described above by metes and bounds is a closed disposal site for controlled industrial waste. The waste previously deposited therein was hazardous, consisting of bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol, EPA Code K001. The waste was removed in accordance with closure plan approved by The Mississippi Department of Natural Resources, Bureau of Pollution Control. However, some soil contaminated with constituents of the waste remains in place. Therefore, use of this land is restricted under 40 CFR 265.117(c) for 30 years after the date of completing closures.

The survey plat of the closed site and a record of the type, location and quantities of waste deposited of on this property has been filed with the Mississippi Department of Natural Resources, Bureau of Pollution Control.

The site owner and operator is Kerr-McGee Chemical Corporation, Forest Products Division, P.O. Box 25861, Oklahoma City, Oklahoma 73125.

KERR-MCGEE CHEMICAL CORPORATION

Vice President

Don Hager, Agaistant Secretary

STATE OF OKLAHOMA )

COUNTY OF OKLAHOMA)

On the Oth day of Month, 1987, personally appeared before me A.L. Martin, who, being by me duly sworn, did say, that he is the Vice President of Kerr-McGee Chemical Corporation, and that said instrument was signed in behalf of said corporation by authority of its by-laws, and said Don Hager, Assistant Secretary, acknowledged to me that said corporation executed same.

M. Kaye Ricc

My Commission Expires:

Merch 31, 1986

This report relates only to the data specified above and does not extend to the financial statements of the Company, taken as a whole, for the year ended December 31, 1985. It is furnished solely for the use of the Company and the Company's distribution to the Mississippi Department of Natural Resources and is not to be used for any other purposes.

Very truly yours,

Arthur Anderson & Co.



# FILE COPY

October 16, 1987

Mr. Jeffrey H. Bull, Manager Environmental Control and Regulatory Affairs Kerr-McGee Chemical Corp. Kerr-McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Bull:

Re: Review Comments to the Interim Status Post Closure Plan Columbus, Mississippi Facility MSD990866329

I have reviewed your Interim Status Post Closure Plan. Enclosed are my comments. Please submit the additions and/or modifications on or before November 6, 1987, such that it can be inserted into the Post Closure Plan.

- (1) Kerr McGee has proposed that the total K001 constituents in any well must be greater than 150 ppb for one sampling event for that well to be declared contaminated the test methods listed in EPA Test Methods for Evaluating Solid Waste SW846 should be used in determining detection limits. (Page 11)
- (2) All references to 40CFR 264 needs to be changed to Mississippi Hazardous Waste Management Regulations (MHWMR) Part 264. (Page 11)

If you have any questions or comments, please contact me at (601) 961-5171.

Sincerely,

Nancy E. Jones Hazardous Waste Division

NEJ:sae cc: James Scarbrough, EPA October 7, 1987

Mr. James H. Scarbrough, Chief Residuals Management Branch Environmental Protection Agency 345 Courtland Street, N. E. Atlanta, Georgia 30365

Dear Mr. Scarbrough:

Re: Kerr-McGee Chemical Corporation Columbus, MS EPA I.D. No. MSD990866329

Enclosed are the following document(s) for your review:

- A. Groundwater Assessment Plan Kerr-McGee Chemical Corporation Columbus, MS
- B. Interim Status
  Post Closure Care Plan
  Kerr-McGee Chemical Corporation
  Columbus, MS

If additional information is needed, please contact Nancy E. Jones of my staff at (601) 961-5171.

Sincerely,

Charles Estes, P.E., Coordinator Hazardous Waste Division

CE:NEJ:dmh Enclosures



KERR-McGEE CENTER . OKLAHOMA CITY, OKLAHOMA 73125

September 2, 1987

Chuck Estes Mississippi Bureau of Pollution Control 2380 Highway 80 Jackson, MS 34204 REGELVED

SEP 0 4 1987

Re:

Kerr-McGee Corporation Forest Products Division

Columbus, Mississippi Facility Ground Water Monitoring Program DEPT. OF NATURES obstract BUREAU OF POLLUTION CONTROL

Dear Mr. Estes:

Pursuant to State and Federal regulations, this letters serves to notify the Mississippi Bureau of Pollution Control (MBPC) of the detection of groundwater contamination at the Kerr-McGee Chemical Corporation, Forest Products Division (KMCC-FPD) Columbus, Mississippi Facility. The groundwater contamination has been detected as a result of the quarterly groundwater monitoring program for the K001, Appendix VII hazardous waste constituents. KMCC-FPD will submit a formal groundwater assessment plan no later than September 25, 1987. The assessment plan will be designed to identify the extent and level of the contamination at the facility. As part of the planning process, KMCC-FPD proposes that a meeting be held in the MBPC Jackson, Mississippi office during the week of September 14, 1987 to discuss a draft proposal.

In accordance with post closure care requirements, KMCC-FPD will also submit a formal post closure care plan by September 25, 1987. The plan will be implemented immediately upon MBPC approval. It is understood that this initial post closure care plan may be amended as part of the final post closure permitting process for the facility.

I will contact you in the immediate future to establish a meeting time to discuss the assessment plan. In the meantime should you have any questions do not hesitate to contact me at 405-270-2391.

Sincerely,

Kerr-McGee Chemical Corporation Forest Products Division

Sull

Effrey H. Bull

Manager Environmental Control and Regulatory Affairs

JHB:wpc

cc: E. L. Creekmore

J. K. Roseman

S. M. Logan





RECEIVED

JUL 27 1987

Dept. of Natural Resources Bureau of Pollution Control

July 23, 1987

Ms. Undine Johnson
Bureau of Polution Control
Hazardous Waste Division
P.O. Box 10385
Jackson, MS 39209

Dear Ms. Johnson,

RE: Kerr McGee Chemical Corporation

MSD 99066329

Inspection of June 24, 1987

As I stated during your inspection of our facility, our warning signs were on backorder. The signs arrived and were posted on July 13, 1987. Please find attached my Post-Closure Care Inspection Report verifying they arrived.

If you have any further questions, or if I may be of any further assistance, please don't hesitate to contact me at (601) 328-7551.

Regards,

E.L. Creekmore

Plant Superintendent

ELC/clv

enclosure



Mr. Undine Johnson
Burn ... ... Donn Bureau of Polution Contral Hozardous Waste Division P.O. Box 10385 Jackson, Ms 39209 Dear Mr. Johnson Re: Kerr-M-Gee Chamical Carporation MSD 99066329 Inspection of June 24, 1987 As I stated during your inspection of our facility our warning signs were an backorder The signs arrived and were posted an July 13, 1987. Please find attached my Post-Closure Core Inspection Report verifing their arrival. If you have any questions or if I may be of any further assistance, please den't hesitate to contact me at (601) 328-7551 Regards, E 2. Creckman Plant Superintendent

Frathill BOX 800 T4101 8302 GRFFN: 8202 WHITE: 8402 IVODY

# FIGURE 4-1 POST-CLOSURE CARE INSPECTION REPORT KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION COLUMBUS, MISSISSIPPI

		Ç	
INSPECTION ITEM	GOOD	CONDITION (/) NEEDS ATTENTION (Describe)	MAINTENANCE PERFORMED
IMPOUNDMENT CAP AND COVER GRAVEL ROCK	\ \		
GROWTH OF PLANTS PRESENCE OF STANDING WATER	\ \ \		
SECURITY DEVICES	\ <sub>22</sub>		
WARNING SIGNS	\\		`
GROUNDWATER MONITORING WELLS			X.
CASING	\\		
CONCRETE COLLAR	\		
REMARKS Warning be	igna a	arrived and	

SIGNATURE

DATE



July 16, 1987

Mr. E. L. Creekmore Kerr-McGee Chemical Corporation P. O. Box 906 Columbus, Mississippi 39701

Dear Mr. Creekmore:

Re: Kerr-McGee Chemical Corporation MSD99066329
Inspection of June 24, 1987

On June 24, 1987, an inspection was conducted at the above stated facility.

No Class I violations were found, however, warning signs had not been posted on the closed unit as required by the State approved closure plan. You informed me that these signs had been ordered and would be posted as soon as shipment was received.

We request that the Bureau be notified in writing once this has been accomplished.

A copy of the checklist is enclosed.

If you have any questions, please contact me at (601) 961-5171.

Sincerely,

Undine Johnson Hazardous Waste Division

UJ:eb Enclosure

## FILE COPY

December 5, 1986

Mr. Jeffrey H. Bull, Manager Environmental Control and Regulatory Kerr-McGee Chemical Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Bull:

Re: Comprehensive Groundwater
Monitoring Evaluation (CME)
Kerr-McGee Chemical Corporation
Columbus, Mississippi
MSD990866329

On August 11, 1986, a Comprehensive Groundwater Monitoring Evaluation (CME) was performed at the above referenced facility. This evaluation was conducted to determine the adequacy of the facility's groundwater monitoring system with respect to the requirements of Mississippi Hazardous Waste Management Regulations (MHWER) Part 265, Subpart F. Enclosed is a copy of the CME Report. No deficiencies or violations were found as a result of this evaluation.

If you should have any questions or if you should require any additional information, please contact me at (601) 961-5171.

Sincerely,

David J. Bockelmann Hazardous Waste Division

NB:lr Enclosure

oc: Mr. G. Ross Harrod, Kerr-McGee (w/enclosure)
Mr. James H. Scarbrough, EPA (w/enclosure)

# DEM

#### **ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

June 4, 1986

1751 Federal Drive Montgomery, AL 36130 205/271-7700

CERTIFIED MAIL P 702 330 914 RETURN RECEIPT RECUESTED

Ms. Beverly Johnson Presley Construction, Inc. P.O. Box 46

Dear Ms. Johnson:

RE: Notice of Violation

Between May 19, 1986 and May 27, 1986, inspectors from the Alabama Department of Environmental Management's Hazardous Waste Branch observed Presley Construction, Inc., delivering shipments of hazardous waste, specifically K001 waste generated by Kerr McGee Corporation, Columbus, Mississippi, to the Chemical Waste Management, Inc., Emelle, Alabama facility.

Based on the above observation you have violated the following Alabama Department of Environmental Management, Division 14, Administrative Code Rule:

Rule 14-4-.01(2)(c) A non-rail transporter must not transport hazardous wastes without having received an Alabama Hazardous Waste Transporter Permit in compliance with Rules 14-8-.09 through 14-8-.13.

You are directed to immediately cease all hazardous waste transportation activity in the State of Alabama until such time that you have applied for and received an Alabama Hazardous Waste Transporter Permit.

Questions regarding this matter should be directed to Mr. Joe Brewer at (205) 271-7737.

Shuqualak, Mississippi 39361

P.O. Box 953

Field Offices:

Decatur, AL 35602

205/353-1713

Unit 806, Building 8 225 Oxmoor Circle Birmingham, AL 35209 205/942-6168

4358 Midmost Drive Mobile, AL 36609 205/343-7841

Sincerely

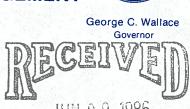
Daniel E. Cooper, Chief

Land Division

DEC/JB/sjw

Mr. Allan Antley CC: USEPA Region IV

> Mr. Jack McMillan Mississippi Department of Natural Resources



JUN 0 9 1986

DEPT. OF NATURAL RESOURCE BUREAU OF POLLUTION CONTROL



#### MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES

#### **Bureau of Pollution Control** P. O. Box 10385 Jackson, Mississippi 39209 (601) 961-5171 MEMORANDUM



TO:

Hazardous Waste TSD Facilities, KERR-MeGEE, Columbus

FROM:

John M. Lister

SUBJECT: Annual Closure Cost Estimate Update

DATE:

March 24, 1986

1. The closure cost estimate must be updated by May 19, 1986. This estimate must be submitted to this office by May 28, 1986.

- 2. Financial assurance mechanism must be updated as follows:
  - Facilities that use the Financial Test must resubmit financial Α. information incorporating the closure cost estimate update within 90 days after the end of their fiscal year;
  - В. Facilities that use the Trust Fund must update Schedule A of the Trust Fund by July 18, 1986. Annual payments into the Trust Fund must be made by December 1, 1986.
  - C. Facilities that use the Surety Bond must increase the amount of the bond and submit evidence of such increase to our office or obtain alternate financial assurance by July 18, 1986.
  - D. Facilities that use the Letter of Credit must cause the amount of the credit to be increased so that it at least equals the current closure cost estimate and submit evidence of such increase to our office or obtain other financial assurance by July 18, 1986; and
  - Facilities that use Closure Insurance must either cause the face amount of the insurance to be increased to the current closure cost estimate and submit evidence to our office or obtain other financial assurance by July 18, 1986.

To update your closure cost estimate, you must multiply the current closure cost estimate (1985 estimate) times 1.033. The new figures will become the updated closure cost estimate for which you must demonstrate financial assurance.

#### Example:

Original closure cost estimate - \$10,000 (1981)

1982 update  $$10,000 \times 1.09 = $10,900$ 

1983 update  $$10,900 \times 1.07 = $11,663$ 

1984 update  $$11,663 \times 1.04 = $12,130$ 

1985 update \$12,130 x 1.038= \$12,594

1986 update \$12,594 x 1.033= \$13,009

Should you have any questions, please contact me at (601) 961-5171.

JML: hdb



November 13, 1985

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Jack McMillan, Director Division of Solid/Hazardous Waste Management Mississippi Department of Natural Resources 2380 Hwy. 80 West Jackson, MS 39209 DISCIPILITY ED NOV 1 1 1985

DEPT. OF NATURAL RESOURCE BUREAU OF POLLUTION CONTROL

RE: Kerr-McGee Chemical Corporation Forest Products Division Columbus, Mississippi EPA MSD 990866329 Groundwater Monitoring/Financial

Groundwater Monitoring/Financial Assurance Certification

Dear Sir:

Enclosed please find a copy of the topographic map for the Kerr-McGee Chemical Corporation, Forest Products Division, Columbus, Mississippi, facility indicating the location of the two hazardous waste impoundments for which a groundwater monitoring/financial assurance certification statement was submitted on November 8, 1985. The topographic map is being submitted in response to your letter dated November 1, 1985, regarding your request for information pursuant to 3007 of the Resource Conservation and Recovery Act.

In the event that you should need any additional information, do not hesitate to call me at 405/270-2391.

Sincerely,

KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

frey H. Bull

Manager, Environmental & Regulatory Affairs

JHB:jw Enclosure

cc: B. W. Boisseau

J. C. Stauter

S. M. Logan





November 8, 1985

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. Jack McMillan, Director Division of Solid/Hazardous Waste Management Mississippi Department of Natural Resources 2380 Hwy. 80 West Jackson, MS 39209

Re: Kerr-McGee Chemical Corporation
Forest Products Division
Columbus, MS Facility
EPA MOD 990866329
Groundwater Monitoring/Financial
Assurance Certification

Dear Sir:

Enclosed please find a copy of the groundwater monitoring/financial assurance certification statement for the Kerr-McGee Chemical Corporation, Forest Products Division, Columbus, MS Facility in compliance with the Loss of Interim Status Provisions of the 1984 RCRA Amendments. The certification statement was prepared utilizing state and federal guidance memoranda. In the event that you should need any additional information, do not hesitate to call me at 405/270-2391.

Sincerely,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

/Jeffrey H. Bull

Manager, Environmental & Regulatory Affairs

JHB/j1

cc: B. W. Boisseau, Columbus Facility

J. C. Stauter

S. M. Logan



# GROUNDWATER MONITORING/FINANCIAL ASSUPANCE CERTIFICATION STATEMENT

I, Kerr-McGee Chemical Corporation-Forest Products Division,
am the owner/operator ofFacility # MSD 990866329
(EPA ID #) location at Columbus, MS
I certify that the 2 Hazardous Waste Storage Impoundments
(name of unit(s) as identified on the attached surface topography
map) at this facility are in compliance with: (1) All applicable
groundwater monitoring and financial responsibility requirements
in 40 CFR Part 265 Subparts F and H; or (2) all applicable State
groundwater monitoring and financial responsibility requirements
which are part of the State's authorized hazardous waste program
under Section 3006 of RCRA.
I, Kerr-McGee Chemical Corporation-Forest Products Division, as owner-operator ofFacility # MSD 990866329located at
, knowingly and willfully make
this true and accurate certification to the United States
Environmental Protection Agency pursuant to Section 3005(e) of
the Hazardous and Solid Waste Disposal Act, as amended.
11/6/85
(Date)  A. Martin
A. L. Martin Vice President & General Manager

е





July 12, 1985

#### FEDERAL AIR EXPRESS

Mr. Donald G. McCraw Hazardous Waste Section Bureau of Pollution Control P. O. Box 10385 Jackson, MS 39209

Dear Mr. McCraw:

Ref: Kerr-McGee Chemical Corporation
Columbus Facility

This letter is in response to the alledged deficiencies found during a hazardous waste compliance inspection of the referenced facility on June 27, 1985.

The alledged deficiencies and Kerr-McGee's response to each are as follows:

1. Part 265.16(d)(3) - A written description of the type and amount of both introductory and continuing training that will be (or has been) given to each person filling a position listed under paragraph (d)(1) of Part 265.16 must be submitted by July 15, 1985.

#### Response

All HW Coordinators at the Columbus Facility have received the introductory and annual reviews of the initial training required in 265.16. Training sessions are conducted annually to ensure the HW Coordinators and operators will respond effectively to emergencies. Please refer to the enclosed Personnel Training Plan. Subjects addressed during the sessions include:

- Contingency plan and spill reporting procedures
- Security and inspections
- Procedures for care and maintenance of emergency and monitoring equipment
- Shut down procedures including waste feed cutoff procedures
- Response to fires or explosions
- Groundwater Monitoring



The Facility HW Coordinator and alternates have successfully completed a True/False test on the above topics which is on file in the plant records as confirmation of training.

- B. W. Boisseau, Facility HW Coordinator, received the introductory training while assigned as Superintendent, Kerr-McGee Chemical Corporation, Kansas City, Missouri Facility. Mr. Boisseau's personnel training records have been transferred to the Columbus Facility's file.
- 2. Part 265.16(a)(2) Proof of training of the Hazardous Waste Management Director and Instructor at this facility must be submitted by July 15, 1985.

#### Response

Enclosed are training records extracted from the Facility file showing the dates of training and topics covered as proof of training of the Facility HW Coordinator.

3. Part 265.16(b) & (c) - Documentation to substantiate compliance with these two sections must be submitted by July 15, 1985.

#### Response

Enclosed is a chart of the personnel training conducted since 1981 and a copy of this year's True/False test used as confirmation of training.

All facility HW Coordinators will attend an annual personnel training session on July 29, 1985. The training session outline of topics covered, and completed exams will be kept on file at the facility.

4. Submit a new schedule with revised dates for the actual closure process.

#### Response

A revised schedule for closure of the two impoundments is enclosed. Should you have any questions, please contact me at 405/270-2395.

Yours truly,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. Gaskin

Environmental & Quality Control

PCG:jl

cc: B. W. Boisseau

D. G. Hoffman

W. J. Broussard

J. H. Bull

# REVISED IMPOUNDMENT CLOSURE TIME SCHEDULE

Kerr-McGee Chemical Corporation Forest Products Division Columbus Facility EPA I.D. No. MSD 990866329

	1 1 1 <del>-</del>
1985	
February 8	KMCC received final approval of closure plan from MBPC.
March 22	KMCC lets contract to commence construction of new wastewater treatment system (WWTS).
April 4	KMCC receives revised wastewater pretreatment permit from MBPC.
July 1	WWTS construction project 85% complete.
July 15	Discharge sewer main from WWTS connected to POTW. Discharge clean (tap) water through new WWTS for discharge to impoundment. Check out flows and equipment functions using clean water.
August 1	Begin operational tests of new WWTS. Sample and analyze discharge for compliance with pretreatment permit.
September 1	Final discharge of water to surface impoundments. Notify MBPC and POTW. Begin discharge of pre- treated water to POTW.
	Begin dewatering impoundments by discharging the water to the POTW.
October 15	Complete removal of recoverable creosote from ponds for reuse in the production process.
December 1	Complete removal of bottom sludge, contaminated soil. Ship off-site to an approved landfill. Interim inspection by P.E. for compliance with plan.
1986	
January 1	Complete leveling, grading and compacting closed site for use as tie storage area.

Final inspection. Notify MBPC and provide certifications of closure.

February 1

# Columbus Facility Personnel Training Plan Forest Products Division Kerr-McGee Chemical Corporation

#### INTRODUCTION:

This training program has been designed and implemented to ensure that all applicable key facility personnel and hazardous waste coordinators are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including:

- 1. Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment.
- 2. Communications and alarm systems.
- 3. Response to fire or explosions.
- 4. Response to groundwater contamination incidents.
- 5. Shutdown of operations.

#### TRAINING PROGRAM

Hazardous waste coordinators and other key facility personnel have completed the program required by 40 CFR 265.16. New employees or new assignments will not work in unsupervised positions until they have completed the training requirements.

The Facility Hazardous Waste Coordinators and key facility personnel will take part in an annual review of the initial training.

The Superintendent and/or Principal Hazardous Waste Coodinator will maintain the following records:

- 1. Job title for each position related to hazardous waste management, and the name of the employee filling the job. Refer to the appendix.
- Written job description for each position. Refer to appendix.
- 3. Written description of type and amount of both introductory and continuing training. Refer to memos documenting training sessions.

4. Records that document training. Refer to memos documenting training sessions.

## PLANT CLOSURE/EMPLOYEE TERMINATION

Training records on current personnel will be kept until closure of the facility. Training records on former employees will be kept for at least three years. Personnel training records will accompany personnel transferred with the company.

#### **APPENDIX**

Job title for each position related to hazardous waste management, name of employee filling the job, and job description.

Principal Hazardous Waste Coordinator, responsible for all plant operations with the authority to commit the resources needed to carry-out the contingency plan.

Assistant Manager/Superintendent - Paul Compton

First alternate Hazardous Waste Coordinator, assistant to the Plant Manager/Superintendent, with the authority to commit the resources needed to carry-out the contingency plan in the absence of the Principal Harardous Waste Coordinator.

Supervisor,
Treatment and Quality Control - Don Getz

<u>Second</u> <u>alternate</u> <u>Hazardous</u> <u>Waste</u> <u>Coordinator</u>, assists the Principal and First Alternate Coordinators in implementing resources needed to carryout the contingency plan.

# KERR-McGEE CHEMICAL CORPOR

INTERNAL CORRESPONDENCE

TO P. C. Gaskin

DATE January 20, 1981

FROM D. G. Hoffman

SUBJECT RCRA Kansas City

During a recent visit to the Kansas City Plant, a meeting was held with B. W. Boisseau and Henry Jarvis involving RCRA regulations. This meeting was held as a training session for the plant on the RCRA regulations. The following topics were covered in the meeting.

- 1. What RCRA is about.
- 2. A review of the application and interim status.
- 3. A review of the security plan and check list.
- 4. A review of the contingency plan.
- 5. Definition of a solid and hazardous waste.
- 6. Definition of a spill and/or catastrophe.
- 7. Emergency coordinator and his duties.

The meeting was held on January 13, 1981.

The acquiring of bids for the fencing of the lagoon has begun. Two bids have been received and we are now waiting for the third bid.

Assist. Supervisor Environmental Control Forest Products Division

D. J. Hoffman

# KERR-McGEE CORPORATIO

INTERNAL CORRESPONDENCE

TO P. C. Gaskin

April 14, 1981 DATE

T. L. Bentley FROM

RCRA Personnel Training SUBJECT Kansas City, Missouri

On March 16, 1981, T. L. Hurst and I conducted a training session at the Kansas City, Missouri Forest Products Division (FPD) plant. This session was attended by:

- B. W. Boisseau Plant Manager Kansas City, Missouri Plant Kerr-McGee FPD
- D. G. Hoffman Assistant Supervisor, Environmental and Quality Control Kerr-McGee Corporation Indianapolis, Indiana
- T. L. Bentley Sr. Staff Environmental Engineer Environmental Affairs Department Kerr-McGee Corporation Oklahoma City, Oklahoma
- T. L. Hurst - Vice-President Environmental Affairs Kerr-McGee Corporation Oklahoma City, Oklahoma

The training session addressed the following topics:

- An overview of RCRA
- Definition of Hazardous Waste
- Explanation of Interim Status Standards
- Waste Analysis Plan
- Inspections
- Security
- Contingency Plans
- Personnel Training
- Groundwater Monitoring
- Closure and Post-Closure Plans
- Reporting
- Manifesting

This training session partially fulfilled the requirements of the RCRA Interim Status Standards for personnel training (40 CFR 265.16). This memo documents the training and a copy must be placed in the file at the Kansas City plant.



Kansas City April 14 1981 Page Two

Any additional training which has been conducted or will be conducted by yourself, Don Hoffman, B. W. Boisseau, or Corporate personnel must also be documented and a copy placed in the plant file.

T. L. Bentley Sr. Environmental Engineer Kerr-McGee Corporation

cm

W. J. Broussard cc:

T. L. Hurst

RECEIVED

APR 1 5 1981

POACC Ferent Products Division Front Department

#### KERR-McGEE CORPORATION

INTERNAL CORRESPONDENCE

To T. L. Hurst

DATE February 15, 1983

FROM J. C. Stauter

SUBJECT RCRA Personnel Training

On February 14, 1983 I conducted a RCRA personnel training session in accordance with 40 CFR 265.16 for Mr. Bobby Boisseau, Forest Products Division Kansas City facility superintendent. The training session covered the following topics:

Overview of RCRA
Waste Analysis Plan
Security and Inspections
Contingency Plan and Spill Reporting Procedures
Operating Records
Closure/Post-Closure Plans
Personnel Training
Groundwater Monitoring

Mr. Boisseau completed a True/False test over the above topics which will be on file in the plant records as confirmation of training. An extra exam and training outline were given to Mr. Boisseau to use in training other employees at Kansas City.

J. C. Stauter

Sr. Environmental Engineer Kerr-McGee Corporation

JCS:cr

cc: P. C. Gaskin

B. Boisseau

W. J. Broussard

May 31, 1984

P. C. Gaskin

RCRA 1984 Annual Training - Columbus

On May 24, 1984, I conducted the RCRA 1984 annual personnel training for the hazardous waste coordinators at the Columbus Facility. In attendance for the training were:

B. W. Boisseau - Plant Superintendent and Facility HW Coordinator

Paul Compton - Assistant HW Coordinator

Neal Lollar - " " "

Don Getz - " " "

In conducting the annual training I used the (1) attached outline of the subjects that were covered and (2) the 1984 RCRA Facility Personnel Training Examination with explanatory answer sheet.

The training outline, completed exam, and a copy of this memo will be kept on file at the facility until the HW regulated areas are closed.

Criginal signed By PETER C. GASKIN

P. C. GASKIN

#### PCG:rc

cc: B. W. Boisseau

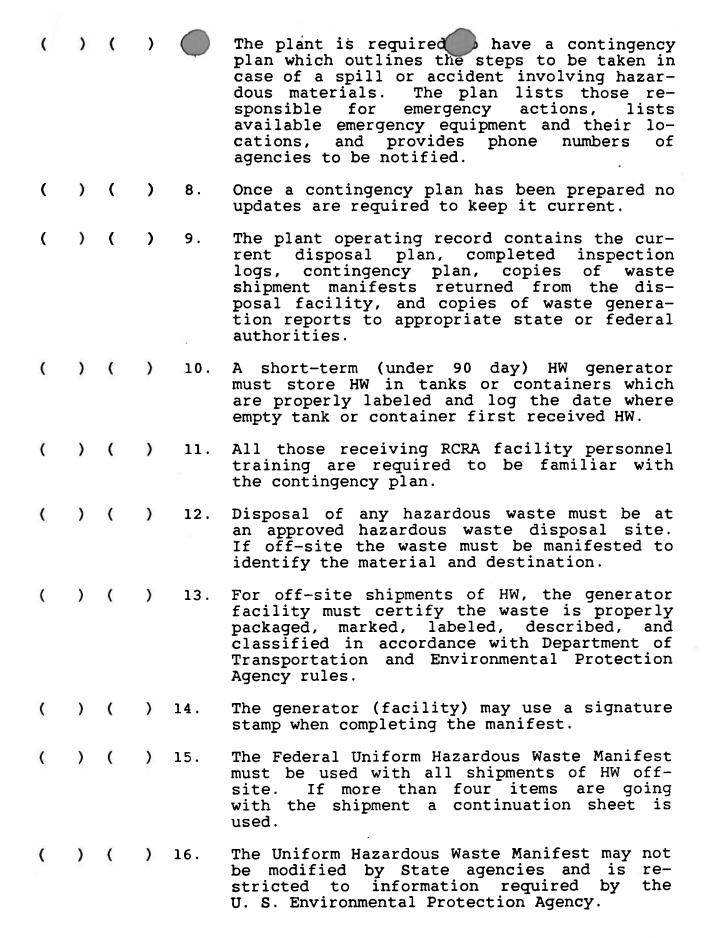
D. G. Hoffman

E. T. Still

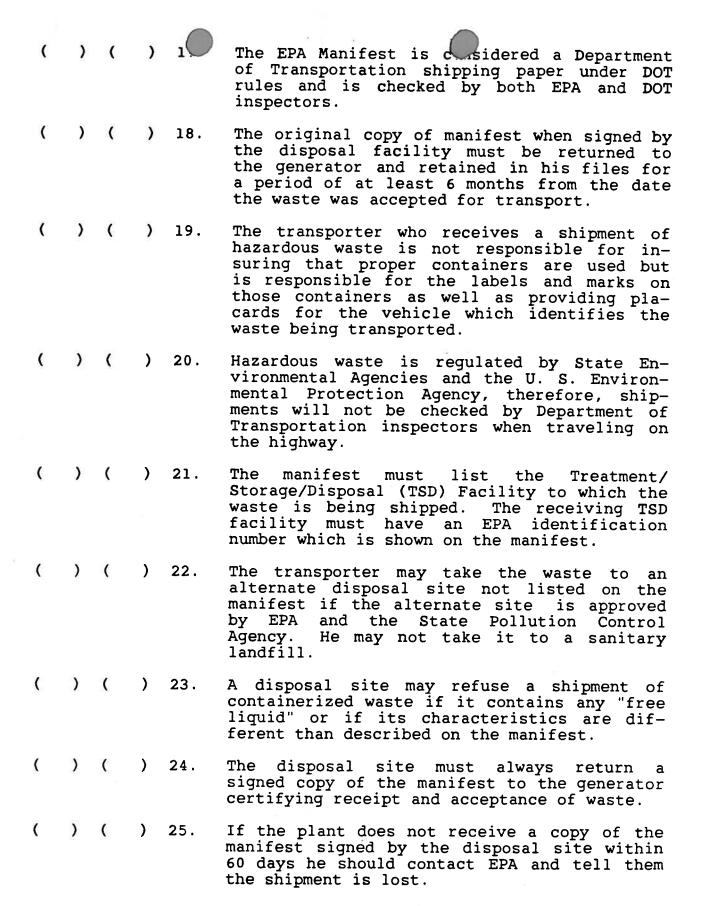
1985

N	ame:				
J	ob ti	tle:			
	ate:				
F	acili				
					Signature of trainer:
Aı	nswer	the	fol	lowin	ng questions as true (T) or false (F):
					of talke (I).
(	B* )	( ີ	)	1.	EPA identifies the facilities which generate RCRA hazardous wastes. A plant is considered out of the RCRA system until notified by EPA.
(	)	(	)	2.	EPA realizes that accidental spills of hazardous materials and wastes will occur during normal plant operations. Such spills must only be reported if they are sufficiently large to get outside the facility property line.
(	)	(	,	3.	Congress adopted amendments to RCRA in 1984. Changes made include eliminate requirements for plants to self inventory and determine if HW is present.
(	)	(	)	4.	An inspection log for any area in which hazardous waste is stored, even if less than 90 days, must be maintained including the date, time of day, any observations and actions taken, and signature of the inspector.
(	)	(	)	5.	Once an individual has done several inspections of hazardous waste areas and is familiar with the requirements he need not note each inspection but only those where a problem exists.
(	)	(	)	6.	A new employee who will work with hazardous wastes must receive training covering the RCRA plant requirements prior to taking on duties not requiring accompanying supervision.

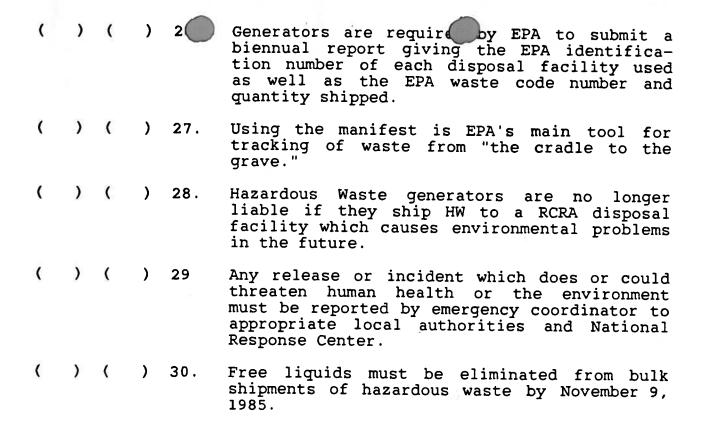
<sup>\*</sup>B - Before Training Class A - After Training Class



0317E



Page 3



#### ANSWERS

- 1. False The facility must regularly survey operation and determine if hazardous wastes are generated, stored, treated, or disposed on-site.
- 2. False Spills of hazardous materials and wastes must be reported to the National Response Center and appropriate state hazardous waste control authorities. Notify Kerr-McGee Environmental Affairs Department first of the type and amount of a spill so that a determination of appropriate reporting response can be made.
- 3. False Facility must inventory wastes to determine if composition and quantities of waste fall within definitions of RCRA amendments.
- 4. True These logs must remain on file.
- 5. False All inspections must be documented even though they are routine and no actions required.
- 6. True Training would include use of logs, inspection criteria, etc.
- 7. True This plan establishes set procedures in the event of emergency. All personnel responsible for hazardous waste management must be familiar with this plan.
- 8. False Plan must be reviewed and amended immediately if applicable regulations are revised, plan fails in an emergency facility changes, or list of equipment changes or list of coordinators change.
- 9. True State and EPA inspectors will review operating record for completeness.
- 10. True Tanks and containers used by short-term storers of hazardous waste must be labeled with words "HAZAR-DOUS WASTE." Also log must be maintained showing date when waste was first placed in tanks/containers after emptying.
- 11. True Personnel must be familiar with procedures for responding to releases which effect human health or the environment.
- 12. True All hazardous wastes must be disposed of at secure facilities and identified as to description and destination.

- 13. True C ification is final step preparing hazardous waste for shipment and should not be made until waste is properly identified, packaged, labeled, and marked.
- 14. False Operator must use a handwritten signature when signing manifest.
- 15. True All shipments of HW off-site beginning September 20, 1984 must be accompanied by completed "Uniform HW Manifest."
- 16. False States are allowed to request additional information on uniform manifest. If waste travels across two or more states, only one may request additional information for the shipment.
- 17. True If properly completed, the manifest can also be a DOT shipping paper.
- 18. False Manifests must be retained at the facility at least three years.
- 19. False The generator is responsible for having the proper packaging, labels, marks, and providing placards to the transporter for his vehicle.
- 20. False The U. S. Department of Transportation and appropriate state transportation departments will check manifests and inspect containers against EPA/DOT rules when the vehicle is traveling on the highway.
- 21. True The manifest is the tracking document for both generator and EPA.
- 22. False Hazardous waste may only be taken to disposal sites listed on the manifest unless the transporter contacts the generator and requests a change to an alternate site. This change must be properly noted and recorded.
- 23. True Disposer may return shipment to generator or send to an alternate site approved by generator.
- 24. True Unless the signed manifest is returned to the generator the "cradle to the grave" tracking system is not complete.
- 25. False If generator does not receive a signed copy of the manifest back in 35 days, he must contact the disposer/transporter and determine status of shipment. If waste cannot be found within 45 days, an "Exception Report" is submitted to EPA.
- 26. True Generator must keep adequate records to allow completion of this report.

- 27. True E uses manifest records assign liability for volumes of waste disposed of at leaking sites which must be cleaned-up.
- 28. False Generators <u>are</u> liable for disposal of wastes at RCRA sites if they leak or cause other environmental problems in the future.
- 29. True Facility contingency plan outlines proper procedure for response to local, state and national agencies.
- 30. True Also after November 9, 1985 manifest must certify that volume and toxicity of waste has been reduced to greatest extend practible.

### RCRA

# PERSONNEL TRAINING UPDATE

- RCRA PASSED IN 1976
- RCRA AMENDED IN 1984
- REGULATES GENERATION, HAULING, STORAGE, TREATMENT AND DISPOSAL OF HAZARDOUS WASTE
- EPA'S RCRA RAGULATIONS EFFECTIVE NOVEMBER 19, 1980
- REGULATIONS APPLY TO THIS LOCATION
- HAZARDOUS WASTES AT THIS LOCATION INCLUDE:

- WASTES HAVE HAZARDOUS CHARACTERISTICS SUCH AS:

- ALL PRESENT UST RECEIVE ANNUAL RCRA TOINING UPDATE

### PERSONNEL TRAINING

#### PERSONNEL TRAINING RECORD

- INCLUDES ALL WORKING AT OR RESPONSIBLE FOR OPERATIONS INVOLVING HW GENERATOR, STORAGE, TREATMENT OR DISPOSAL
- LISTS EMPLOYEE NAME, JOB TITLE, AND JOB DESCRIPTION
- RECORDS DATE & TYPE OF TRAINING TAKEN
- MUST BE CURRENT
- KEEP UNTIL HW UNITS ARE CLOSED

#### TRAINING REQUIRED

- NEW EMPLOYEE WITHIN SIX (6) MONTHS OF HIRE
- ANNUAL UPDATE BY MAY 19 OF EACH YEAR
- CLASSROOM OR ON-THE-JOB
- NEW EMPLOYEE MUST NOT WORK IN UNSUPERVISED POSITION UNLESS TRAINING IS COMPLETED

0120E

## CONTINGENCY PLAN

- LISTS ACTIONS WHEN THERE IS AN ACCIDENTAL DISCHARGE FROM THE SITE
- LISTS EMERGENCY EQUIPMENT AVAILABLE, LOCATION, BRIEF DESCRIPTION AND HOW TO USE IT
- COORDINATOR IS:

1st ALTERNATE:

2nd ALTERNATE:

- COORDINTAOR MUST WHEN EMERGENCY OCCURS:
  - DETERMINE AMOUNT OF WASTE WHICH ESCAPED AND ITS SOURCE
  - START CONTROL ACTIONS SHOWN IN PLAN
  - CALL KM ENVIRONMENTAL AFFAIRS FOR ASSISTANCE
  - REPORT (IF NECESSARY) TO NATIONAL RESPONSE CENTER (NRC)
- PLAN MUST BE CURRENT
  - NAMES & NUMBERS MUST BE UP TO DATE
  - EQUIPMENT LISTED

# PCC PLAN AND SUPERFUND REPRTING

#### SPCC PLAN

- DESCRIBES PROGRAM FOR CONTAINING SPILLS & LEAKS OF OIL (FUEL OIL, GASOLINE, ETC.)
- MUST BE UPDATED EVERY THREE YEARS BY PROFESSIONAL ENGINEER

## SUPERFUND REPORTS

- SPILLS OF POTENTIALLY HAZARDOUS SUBSTANCES (CAUSTIC, ACIDS, ETC.)
- CONTACT K-M ENVIRONMENTAL AFFAIRS (K-M PROCEDURE 73.1)

# SECURITY

- FENCES WITH LOCKED GATES OR 24 HOUR SURVEILLANCE BY GUARDS
- ONLY AUTHORIZED WORKERS ARE ALLOWED TO IN THESE AREAS
- WARNING SIGNS AT EACH ENTRANCE MUST BE LEGIBLE:

DANGER: UNAUTHORIZED PERSONNEL KEEP OUT

#### INSPECTIONS

### - TANKS & PONDS

- ONCE A DAY CHECK FREEBOARD OVER TWO FEET
- ONCE A WEEK LEAKS
- INSPECTION LOG DATE, TIME, PURPOSE, ACTIONS AND SIGNATURE OF INSPECTOR
- INSPECTION LOGS MUST BE KEPT FOR THREE (3) YEARS AFTER USE

#### DRUM STORAGE AREA

- ONCE A WEEK LEAKS IN DRUMS, ANY OPEN DRUMS
- INSPECTION LOG DATE, TIME, PURPOSE, ACTIONS AND SIGNATURE
- INSPECTION LOGS MUST BE KEPT FOR THREE (3) YEARS AFTER USE

#### OTHER

AS DESCRIBED IN INSPECTION PLAN

#### MANIFESTS

- TRACKS WASTE FROM GENERATOR TO DISPOSAL SITE
- MANIFEST REQUIRES:
  - GENERATOR EPA I.D. # AND PLAN #
  - U.S. EPA AND DEPARTMENT OF TRANSPORTATION WASTE IDENTIFIER CODES
  - TRANSPORTER (HAULER) EPA I.D.#
  - DISPOSAL SITE (LANDFILL) EPA I.D.#
  - GENERATOR SIGNS MANIFEST AND CERTIFIES WASTE IS CORRECTLY PACKAGED FOR SHIPMENT
- WASTE TRACKING PROCESS
  - HAULER RECEIVES WASTE AND SIGNS MANIFEST
  - HAULER DELIVERS WASTE TO DISPOSAL SITE
  - DISPOSAL SITE RECEIVES WASTE AND SIGNS MANIFEST
  - DISPOSER GIVES A COPY TO HAULER AND SENDS COPY TO GENERATOR

- IF SIGO MANIFEST COPY IS NOT REAL TO GENERATOR WITHIN 35 DAYS FROM DISPOSER, GENERATOR MUST CONTACT DISPOSAL SITE
- IF SIGNED MANIFEST NOT RETURNED IN 45 DAYS, GENERATOR MUST REPORT TO EPA OR STATE

#### OPERATING RECORD

- REVIEWED BY STATE AND EPA INSPECTORS EVERY YEAR
- RECORD INCLUDES
  - COMPLETED INSPECTION LOGS
  - PERSONNEL TRAINING RECORDS
  - CURRENT CONTINGENCY PLAN
- RECORD ALSO INCLUDES
  - WASTE ANALYSIS PLAN WITH RESULTS OF ANY WASTE SAMPLING
  - CLOSURE PLAN FOR PONDS WITH COST ESTIMATE
  - GROUNDWATER MONITORING PLAN WITH ALL GROUNDWATER SAMPLING RESULTS
  - ALL MANIFESTS (BOTH COPIES)
- ALL PARTS OF OPERATING RECORD MUST BE KEPT IN SAME LOCATION

0120E

#### OUTLINE

0F

# RCRA PERSONNEL TRAINING REQUIREMENTS

- \* FACILITY PERSONNEL RESPONSIBLE FOR OR OTHERWISE INVOLVED WITH HW STORAGE, TREATMENT OR DISPOSAL MUST SUCCESSFULLY COMPLETE AND REVIEW ANNUALLY A PROGRAM OF CLASS ROOM INSTRUCTION OR ON-THE-JOB TRAINING.
- \* TRAINING PROGRAM MUST TEACH PERSONNEL TO PERFORM DUTIES IN A WAY WHICH ENSURES COMPLIANCE WITH RCRA TSDF REGULATIONS BY THE FACILITY.
- \* TRAINING PROGRAM MUST BE DIRECTED BY PERSON TRAINED IN HW MANAGEMENT PROCEDURES.
- \* TRAINING PROGRAM MUST TEACH FACILITY PERSONNEL ALL THE HW MANAGEMENT PROCEDURES WHICH ARE RELEVANT TO THE POSITIONS IN WHICH THEY ARE EMPLOYED.
- \* TRAINING PROGRAM, AS A MINIMUM, MUST BE DESIGNED TO ENSURE PERSONNEL ARE ABLE TO RESPOND EFFECTIVELY TO EMERGENCIES BY FAMILIARIZING THEM WITH EMERGENCY PROCEDURES, EQUIPMENT AND SYSTEMS INCLUDING WHERE APPLICABLE:

0F

# RCRA PERSONNEL TRAINING REQUIREMENTS

- \* FACILITY PERSONNEL RESPONSIBLE FOR OR OTHERWISE INVOLVED WITH HW STORAGE, TREATMENT OR DISPOSAL MUST SUCCESSFULLY COMPLETE AND REVIEW ANNUALLY A PROGRAM OF CLASS ROOM INSTRUCTION OR ON-THE-JOB TRAINING.
- \* TRAINING PROGRAM MUST TEACH PERSONNEL TO PERFORM DUTIES IN A WAY WHICH ENSURES COMPLIANCE WITH RCRA TSDF REGULATIONS BY THE FACILITY.
- \* TRAINING PROGRAM MUST BE DIRECTED BY PERSON TRAINED IN HW MANAGEMENT PROCEDURES.
- \* TRAINING PROGRAM MUST TEACH FACILITY PERSONNEL ALL THE HW MANAGEMENT PROCEDURES WHICH ARE RELEVANT TO THE POSITIONS IN WHICH THEY ARE EMPLOYED.
- \* TRAINING PROGRAM, AS A MINIMUM, MUST BE DESIGNED TO ENSURE PERSONNEL ARE ABLE TO RESPOND EFFECTIVELY TO EMERGENCIES BY FAMILIARIZING THEM WITH EMERGENCY PROCEDURES, EQUIPMENT AND SYSTEMS INCLUDING WHERE APPLICABLE:

PROCEDURES FOR USE, INSPECTION, REPAIR, AND REPLACEMENT OF PLANT EMERGENCY AND MONITORING EQUIPMENT.

CONTROLS FOR AUTOMATIC WASTE FEED CUT-OFF SYSTEMS.

COMMUNICATIONS OR ALARM SYSTEMS.

RESPONSE TO FIRE OR EXPLOSIONS.

RESPONSE TO GROUND-WATER CONTAMINATION INCIDENTS.

SHUT-DOWN OF HWM FACILITY OPERATIONS.

\* THE FOLLOWING RECORDS MUST BE MAINTAINED BY FACILITY MANAGER ON-SITE:

JOB TITLE AND NAME OF EMPLOYEE FILLING EACH JOB FOR ALL POSITIONS AT FACILITY RELATED TO HW STORAGE (SHORT OR LONG TERM), TREATMENT OR DISPOSAL.

WRITTEN JOB DESCRIPTION FOR EACH JOB TITLE LISTED. AS A MINIMUM MUST INCLUDE REQUIRED SKILL, EDUCATION OR OTHER QUALIFICATIONS, AND DUTIES OF PERSONNEL ASSIGNED TO JOB.

RECORD OF SUCCESSFUL COMPLETION OF REQUIRED TRAINING AND ANNUAL UPDATES.

A WRITTEN DESCRIPTION OF TYPE AND AMDUNT OF BOTH INTRODUCTORY AND CONTINUING TRAINING WHICH WILL BE GIVEN TO EACH OF LISTED PERSONNEL.

TRAINING RECORDS ON CURRENT PERSONNEL MUST BE KEPT UNTIL CLOSURE OF THE FACILITY. FOR FORMER EMPLOYEES TRAINING RECORDS MUST BE KEPT FOR 3 YEARS FROM DATE EMPLOYEE LAST WORKED AT PLANT.

# KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION COLUMBUS FACILITY

#### HAZARDOUS WASTE MANAGEMENT TRAINING RECORD

The names, titles, job descriptions, and training dates of the key facility employees who are trained to oversee the hazardous waste management operation at the Columbus facility are summarized below:

NAME	TITLE	JOB DESCRIPTION	INTRODUCTORY TRAINING	FOLLOW-UP COURSES
B. W. Boisseau	Superintendent	Principal hazardous waste coordinator responsible for all plant operations, with the authority to commit the resources needed to carry out the contingency plan.	01/20/81 03/16/81	02/15/83 05/31/84
Paul Compton	Assistant Superintendent	First alternate hazardous waste coordinator and assistant to the Superintendent, with the authority to commit the needed resources to carry out the contingency plan in the absence of the principal hazardous waste coordinator.		02/16/82 03/24/82 05/07/82 04/06/83 05/31/84
Don Getz	Supervisor, Treatment and Quality Control	Second alternate hazardous waste coordinator who assists the principal and first alternate coordinators in implementing resources needed to carry out the contingency plan.	02/06/81	02/16/82 03/24/82 05/07/82 04/06/83 05/31/84
Neal Lollar	Supervisor, Maintenance	Third alternate hazardous waste coordinator who assists the principal, first, and second alternate coordinators in implementing resources needed to carry out the contingency plan.	04/06/83	05/31/84

FILE COPY

July 5, 1985

Mr. B. W. Boisseau Plant Manager Kerr-McGee Chemical Corporation P. O. Box 906 Columbus, Mississippi 39701

Dear Mr. Boisseau:

Re: Interim Status and Groundwater
Monitoring Inspection
MSD990866329
Columbus, Mississippi

I conducted the above referenced inspections at the Columbus facility June 27, 1985. Copies of both checklists are attached.

Deficiencies in your training program have been identified in previous inspections on June 6, 1983, (for inadequate job descriptions) and on May 23, 1984 (for noncompliance with the requirement for an annual training update).

To meet the requirements of Part 265.16, the following must be submitted to my office by the dates indicated.

- 1. Part 265.16(d)(3) A written description of the type and amount of both introductory and continuing training that will be (or has been) given to each person filling a position listed under paragraph (d)(1) of Part 265.16 must be submitted by July 15, 1985.
- 2. Part 265.16(a)(2) Proof of training of the Hazardous Waste Management Director and Instructor at this facility must be submitted by July 15, 1985.
- 3. Part 265.16(b) & (c) Documentation to substantiate compliance with these two sections must be submitted by July 15, 1985.

Also, at the time of my inspection I noticed that the hazardous waste impoundment which is intended for closure was still receiving waste; the dewatering process outlined in your approved closure plan, which was to begin March 5, 1985, had not been started. For this reason, you need to submit a new schedule to this office with revised dates for the actual closure process. This schedule should be submitted by July 15, 1985.

Mr. B. W. Boisseau July 5, 1985 Page -2-

Finally, a question about interim status operation came up during the June 27, 1985 inspection. Subpart G, Part 270.70, states that while under interim status a facility shall be treated as having a permit to operate as long as the facility complies with Part 270.71 and all 265 requirements. Part 265.113 says that within 90 days after receiving the final volume of hazardous waste or 90 days after approval of the closure plan, if that is later, the owner or operator must treat, remove from the site, or dispose of on-site all hazardous wastes in accordance with the approved closure plan. According to this section, you are not in violation of the regulations as I had earlier indicated. However, you are behind schedule and should make every effort to complete your closure promptly according to the schedule.

Should you have any questions about this letter, please contact me at 961-5171.

Sincerely,

Donald G. McCraw Hazardous Waste Section

DGM:hdb
Enclosures
cc: Mr. P. C. Gaskin, P. E., Kerr-McGee Chemical Corporation



**ENGINEERING SERVICES DIVISION** 

April 30, 1985

DIVISION OF SOLID WASTE

REVIEWED BY

DATE 3/83

COMMENTS SEE MEMO

DATED 4/30/851

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Don McCraw
Division of Solid Waste Management
Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209

Dear Mr. McCraw:

Re: Kerr-McGee Chemical Corporation Forest Products Division Columbus, Mississippi Facility EPA I.D. No. MSD 990866329

Kerr-McGee Chemical Corporation, Forest Products Division is continuing with the groundwater quality assessment plan submitted to the Mississippi Bureau of Pollution Control for the Columbus, Mississippi Facility. As discussed in an April 24, 1985 meeting with you and Mr. John Herrmann, Kerr-McGee will install a new monitor well at a location in between the regulated pond and existing monitoring well CMW-3. This well will serve to confirm if contamination noted in CMW-3 is related to pond leakage. The approximate location is shown on the attached diagram.

The proposed well will be designated CMW-5 and will be constructed using a 2-inch casing and screen inside of a 6-inch surface casing. All casing and screen materials will be composed of PVC with screw type joints.

Well drilling and installation is currently scheduled for the week of May 13, 1985. After well installation is completed, the well will be sampled for KOO1 constituents. Kerr-McGee will contact the MBPC if well installation is delayed.

Please feel free to contact me or P. C. Gaskin if you require additional information.

Very truly, yours,

S. M. Løgan

Manager of Hydrology

(405) 270-2699

SML:dh

cc: B. Boisseau

FILE COPY

#### MEMORANDUM

TO: File, Kerr-McGee Meridian & Columbus

FROM: Don McCraw

SUBJECT: Meeting with Pete Gaskin, April 24, 1985

DATE: April 30, 1985

At Kerr-McGees request a meeting was held on April 24, 1985, 9:30 a.m., at BPC, Jackson to discuss the Final Groundwater Quality Assessment Plan, Phase III, for the Meridian facility which satisfied Commission Order # 805-84, submitted April 15, 1985, and notification of contamination in CMW-3 at Columbus and the plan that Kerr McGee proposes to take in both matters.

1. Meridian Phase III Final Report; Based on studies performed and submitted in the report, a mounding situation seems to be indicated under the RCRA impoundment. Kerr-McGee proposes to install two additional monitoring wells, one located between MW-1 and P-12. The other well will be located between MW-4 & 3 and P-5. In addition to the MW's, four additional piezometers were proposed, and five were agreed to be installed as indicated on Page 20 of the report.

Construction date for installation of the additional wells is the week of the 13th of May and sampled immediately. Results are due to MBPC by June 14, 1985. KM is also having both analysis done by a different lab contractor than Harmon this time.

2. Notification of contamination of CMW-3 at Columbus was discussed, and Kerr-McGee proposes to install a new well in the immediate vacinity of CMW-3 to try and prove the reason for contamination is well construction or possible laboratory error. The new well will be installed by same contractor for Meridian during the same time period (May 13-17, 1985). Results from samples are due MBPC by June 14, 1985. If comtamination can not be disproved, a Post Closure Plan will be submitted to MBPC by June 30, 1985.

Kerr-McGee is working on Post Closure Plan for Meridian facility now. It is due to MBPC by May 15, 1985.



1085 APR 22 AM 9: 48

April 16, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Don McCraw Division of Solid Waste Management Mississippi Department of Natural Resources Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi 39209

DIVISION OF SOLID WASTE REVIEWED BY D.M & CF DATE 4-22-85

Kerr-McGee Chemical Corporation Forest Products Division Columbus, Mississippi Facility EPA I.D. No. MSD 990866329

Dear Mr. McCraw:

Attached are the KOOl re-analysis results for well CMW-3 at the Kerr-McGee Chemical Corporation, Columbus, Mississippi facility. Napthalene, fluoranthene and acenapthylene are indicated to be present in the well.

Kerr-McGee Chemical Corporation would like to discuss these results, if time permits, at the scheduled meeting to discuss the Meridian facility on April 26, 1985. In the meantime, if you have any questions, please call me at (405) 270-2395.

Very truly yours,

Install NEW WELL 5/13/85 Kerr-McGee Chemical Corporation Forest Products Division

RESULTS DUE JUNE 14, 1985

C. Gaskin

Environmental and Quality Control

PCG:dh

Attachments

cc: B. W. Boisseau

TERE Bull



# HARMON ENGINEERING & TESTING AUBURN INDUSTRIAL PARK, AUBURN, AL. 36830 (205)821-9250 GROUNDWATER MONITORING LABORATORY RESULTS

KOO1 PARAMETERS

Kerr McGee Chemical Corp Forest Products Division Post Office Box 906 Columbus, MS 38703-0906

HE&T PROJECT 661-15.C DATE SAMPLE RECEIVED 2-28-85 DATE DATA TRANSMITTED 4-1-85 CLIENT JOB REFERENCE Reanalysis for KOO1

Attn: Bob Boisseau cc: Mr. Pete Gaskin Mr Roy Widmann

Mr. Roy Widmann K001	DETECTION		CONCENTRATION, ug/L
CONSTITUENTS .	LIMIT ug/L	Well 3 1263	, ug/L
pentachlorophenol	25	BDL	
phenol	25	BDL	
2-chlorophenol	25	BDL	
p-chloro-m-cresol	25	BDL	
2,4 dimethylphenol	25	BDL	
2,4 dinitrophenol	250	BDL	
trichlorophenols	25	BDL	
tetrachlorophenols	25	BDL	
creosote	NA	BDL	
chrysene	10	BDL.	
napthalene	10	666	
fluoranthene	10	22	
benzo(b)fluoranthene	10	BDL	
benzo(a)pyrene	10	BDL	*
indeno(1,2,3-cd)pyrene	25	BDL	
benz(a)anthrancene	10	BDL	
dibenz (a.h)anthracene	25	BDL	
acenaphthylene	10	29	



BDL=BELOW DETECTION LIMIT

Laboratory Manager

5-020

#### MEMORANDUM

TO:

File

FROM:

Don McCraw

FILE COPY SUBJECT: Kerr-McGee Facilities, Columbus and Meridian

DATE: February 19, 1985

Mr. Pete Gaskin of Kerr-McGee ask to have a meeting with BPC staff on February 19, 1985 to discuss status of both facilities and hand deliver Groundwater Assessment Report 1 due February 18, 1985. List of participants is attached (Enclosure I) and meeting agenda (Enclosure II).

Columbus; discussed closure schedule and dewatering of impoundment. KM expects to start dewatering in mid March 1985 and be complete by mid May 1985. Discussed recycling of Creosote Sludge from impoundment and storage of such material. (All recycle material will be reused and into system within 90 days) Also discussed approval of Closure Plan and condition to approval, KM agreed.

Meridian; discussed new monitoring wells and piezometer installation. Report I) also discussed additional work to be accomplished. KH proposed some additional sampling of P-5, P-6, P-11 and MW-1, to try and determine if old sewer line under impoundment is cause of contamination. If so, KM proposed to open up old sewer and try flushing for an extended period of time to see if contamination can be corrected and continue to monitor.

Also discussed dewatering at this facility and the method of recycling of the Creosote Sludges. The project will be accomplished in batches and as soon as a batch is processed it will be piped to the treating system and used in plant operation. The remaining sludges after recycling process will be delt with in Hazardous Waste inventory during closure.

Financial Assurance and Insurance was discussed and KM is attempting to provide Financial Test Documents to satisfy Insurance Requirements.

Additional reports and information is due in this office by mid March, 1985.

DM: cm Enclosures

# FILE COPY

February 12, 1985

Mr. P. C. Gaskin Savironmental and Quality Control Kerr-McGas Chemical Corporation Kerr-McGas Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

Re: Kerr-McGee Chamical Corporation MSD990866729, Columbus, HS MSD081387730, Meridian, HS

Receipt is hereby acknowledged of the following:

Letter, dated December 12, 1984 to Hr. Don McCraw. BPC Letter, dated January 31, 1985 to Mr. Robert A. Lee, BPC Letter, dated February 8, 1985 to Mr. Robert A. Lee, BPC.

The above material is currently being reviewed. We will contact you as soon as

Very truly yours.

Donald G. McGraw, Environmental Engineer Division of Solid/Hazardous Waste

DGM:ps oc: Mr. Marvin K. Hambrick Ms. Charlotte D. Hix

Name of firm or party		1		
A 1.1	KANA	Mc GRE	Corp.	
Address	OKlai	homa Cil	To Control of	
Contact	Chanl		/	Phone 405 - 270 -313

of the problem KM is having in keeping Non Sudden Insulance. MARSh McEllan INS Agency has been Trying To obtain 8 he coverige for KM but has been unable to She will send us a letter identifying Their problems and will got their Ins. Agent to send a letter also

Kern Mc Dee - Columbus - Meridian - Hamilton

ober D. Lu 1/ex/05

December 12, 1984

Mr. Don McCraw Mississippi Bureau of Pollution Control P. O. Box 10385 Jackson, MS 39209

Dear Mr. McCraw:

Re: KMCC-FPD

Columbus Facility
MSD 990866329

This is our response to your recent request to clarify decontamination of equipment and to address certification when the recycled creosote is removed from storage tank No. 2 and used in the wood preserving process.

All tools and equipment that were in contact with creosote, K001 waste and contaminated soil will be decontaminated with a mixture of steam and hot water directed with a hose and nozzle at pressures of 1,000 psi, or greater, at 5 gpm and temperatures of approximately 190° F.

Cleaning will be continued until clean metal or structural surfaces are exposed, and all creosote residues based on visible (black) contamination have been removed.

Particular attention will be given to cleaning the running surfaces such as wheels and tracks of equipment by copious purging and washing with a mixture of steam and hot water. Mixed steam and hot water is more effective than either steam or hot water alone in removing and purging these residues from metal surfaces.

The wash water will be contained and returned to the oil/water separator for treatment in the wastewater treatment system and discharge to the POTW.

The steam-hot water supply will be provided by a trailer mounted, gasoline driven ALKOTA STEAM CLEANER, MODEL 5180T, or equal. This unit has a 250 gallon supply tank, and delivers wet steam at 190° F at nozzle pressures up to 1850 psi at the rate of 5 gpm. The jet action strips back to bare clean metal without detergents or presoaking. It is manufactured by ALKOTA Cleaning Systems, Inc., Box 158, Alcester, South Dakota 57001.

Mr. Don McCraw December 12, 1984 Page #2

After all of the recoverable creosote has been recycled to storage tank No. 2, a registered professional engineer will certify by letter to the MBPC that the reclaimed creosote has been used in the wood preserving process within 90 days.

Should you have any questions, please contact me.

Very truly yours,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. GASKIN

Environmental and Quality Control

PCG:rc

cc: B. W. Boisseau

Jeff Bull

W. J. Broussard

Nor-FYE File December 3, 1984 Mr. P. C. Gaskin, Environmental and Quality Control Kerr-McGee Chemical Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125 Dear Mr. Gaskin: Re: Pretreatment Permit No. PT90021 Columbus, Mississippi Facility We have reviewed the application which you have submitted for the above referenced facility. Enclosed please find a draft modification of the pretreatment permit which we intend to finalize shortly. If you have any comments regarding the modification, please inform us in writing, prior to December 19, 1984. Sincerely, Wm. Stephen Spengler, P. E. Industrial Wastewater Control Section WSS:cm cc: Mr. John Herrmann, BPC This copy for



October 29, 1984

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Wm. Stephen Spengler, P.E. Industrial Wastewater Control Section Bureau of Pollution Control Department of Natural Resources P. O. Box 10385
Jackson, MS 39209

Re: Kerr-McGee Chemical Corporation Forest Products Division Columbus, Mississippi Facility

Dear Mr. Spengler:

Enclosed is the Application for a State Operating Permit for the proposed upgrade of the wastewater treatment system at our Columbus facility. The upgraded system must be completed and in operation under MBPC permit before the impoundments can be closed.

As we have discussed, the upgraded system will handle and treat the wastewater for removal of solids and organic constituents. It is anticipated the treated wastewater discharged will not adversely affect the local POTW.

Should you have any questions, or would like to meet and discuss these plans, please call me.

Very truly yours,

KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. Gaskin

Environmental and Quality Control

PCG:kr Enclosure



Wm. Stephen Spenger, P.E. October 29, 1984
Page 2

cc: Mr. B. W. Boisseau, Plant Superintendent Kerr-McGee Chemical Corporation Forest Products Division P. O. Box 906 Columbus, MS 39701

Mr. John Herrmann
Division of Solid Waste
Bureau of Pollution Control
Mississippi Department of
Pollution Control
P. O. Box 10385
Jackson, MS 39209

Mr. Samuel L. Jaynes, P.E.Continental Engineering Service of Mississippi, Inc.P. O. Box 752Aberdeen, MS 39730

	-	-	~	-	•	•	·	••	ı	YUMUE I	
_		_	_	_			-	_	_		

		_	
	Date	Res	-410
-			

#### STATE OF MISSISSIPPI BUREAU OF POLLUTION CONTROL P. O. BOX 10385 JACKSON, MISSISSIPPI 39209

#### APPLICATION FOR A STATE OPERATING PERMIT

(P1	ease print or type)
1.	Name of Applicant: Kerr McGee Chemical Corporation
	Forest Products Division
2.	Mailing Address of Applicant:
	Number & Street (P.O. Box): 607 14th Street North, P. O. Box 906
	City: Columbus State: Mississippi Zip: 39701
3.	Applicant's Authorized Agent:
	Name & Title: P. C. Gaskin, Environmental and Quality Control
	Number & Street (P.O. Box): P. O. Box 25861, Kerr McGee Center
	City: Oklahoma City State: Oklahoma Zip: 73125
	Telephone Number: 405/270-2395
4.	Facilities Location:
	Number & Street: 607 14th Street North
	City: Columbus County: Lowndes
5.	Wature of Business: Wood Preserving Facility .
<b>5.</b>	Do you Discharge Wastewater to a POTW? v Yes No
	Do you Discharge Wastewater to a POTW? Yes No If "Yes" Continue, if "No" go to Item 10.
	Name of POTW Receiving Wastewater:Columbus, Mississippi
	Wastewater Treatment Plant
	Number & Street (P.O. Box): Pickensville Road
	City: Columbus County: Lowndes

7.	Discharge Type and Occurrence:							
	A. Type of Discharge: X Continuo	ous; If	Contir	uous	,15,000	0_Ga	llons pe	r Day(Max.)
	Batch							
	B. Discharge Occurrence: 7 Day	s per W	leek					
	C. Discharge Occurrence: X Jan (Months per Year) X May X Sep	. X X t. X	Jun.	X	_Mar _Jul _Nov	X	_Apr. _Aug. _Dec.	
8.	If Batch: A. Thomas N/A  B. Hour	rs per	Day					
	· CDisc	charge	Occurr	ences	per D	ay		
9.	Maximum Period of Flow: From Octobe Month		April Month	<del></del> -				
10.	Facility Water Use:							
	Estimate average volume in thousand types of water usage at this facilit	gallons	s per (	iay f	or the	fo1	lowing	
	Noncontact Cooling:		2	,000				
	Boiler Feed:	65	10,	,000				<del></del>
	Process (Including Contact Coolin	g):	2,	,000		<del></del>		<del></del>
	Sanitary:			500				
	Other:			'A				<del></del>
	Total:		14,	500		<del></del>		<del></del>
11.	List All Facility Discharges:		-					<del></del>
	Other water losses (surface water, prindicate volume in thousand gallons.	roduct	consum	ption	, evap	orat	ion).	
	Steam evaporation		3,500					
	Steam Condensate (recycled)	30	5,500				<del></del>	<del></del>
	Boiler blowdown (discharge)		1,000		8			<del></del>
	Treated wastewater (discharge)		3,000					<del></del>
	Sanitary (discharge)		500				<del></del>	<del></del>
	Cooling tower evaporation		2,000					<del></del>
_	Treated surface runoff (discharge)		500		-			- <del></del>

#### 65 Toxic Pollutants Listed in Consent Decree and Referenced in 307(a) of the CWA of 1977

3		Concen.	Believe Present	ŧ
Acen	aphthene			Endrin and Metabolities
A				Ethylbenzene
	lonitrile			Flouranthene
414-	in/Dieldrin		<del></del>	_ :
200000000000000000000000000000000000000	mony & compounds	~	-	Reloethers
A	nic & compounds			Balomethanes
S				Meptachlor & metabolities
		حصنيب	-	Bexachlorobutadiene
8	ene Idine			Mexachlorocyclopentadiene
		-		Bexachlorocylohexane
	llium & compounds	-		Isophorone
	lum & compounds			Lead & compounds
	n tetrachloride			Mercury & compounds
	rdane			Maphthalene
	rinated benzenes	-		Mickel & compounds
	rinated ethanes			Mitrobenzene
Chlor	rinalkyl ethers			Mitrophenols
Chlor	rinated maphthaler	.e		Witrosamines
CUTOI	rinated phenois		X	Pentachlorophenol
	roform		<u> </u>	Phenol
	lorophenol			Phthalate esters
	ium & compounds			Polychlorinated byphenyls (PC
Coppe	T & compounds			Polynuclear aromatic
Cyani				Hydrocarbons
	metabolities			Selenium & compounds
Dichl	orobenzenes			Silver & compounds
Dich]	orobenzidine	<del></del>		2,3,7,8-Tetrachlorodibenzo-
Dichl	oroethylenes		Control word	p-dioxine (TCDD)
	ichlorophenol		the same of the sa	Tetrachloroethylene
	oropropane &			Thallium & compounds
	hloropropene			Toluene
2.4-D	ime thy lphenol			Toxaphene
	otoluene			Trichloroethylene
	ylhydrazine			Vinyl chloride
				vanya entorade
	<del>-</del>			Tine to amounts
	lities toxicants known o			Zinc & compounds  resent in the discharge:  this facility. We believe this
		N.J		treated wastewater discharge.
				•

12. The Columbus plant is a wood preserving plant that pressure treats wood products (mainly crossties) with creosote. The dry wood is placed in a pressure cylinder, immersed in the treating oil(creosote) and pressure is applied to the cylinder for a period of time to impregnate the wood with the preservative. After treating is complete, a vacuum is placed on the pressure cylinder to remove excess preservative. The volume of contaminated wastewater from the treating cylinder is small, approximately 300 gallons per charge, and consists mostly of vacuum seal water and condensate.

Most of the wood treated by this plant is air dried. However, at times it is necessary to dry the wood before treatment. This is done by placing the wood in the cylinder, applying heat, and pulling a vacuum on the cylinder. These drying cycles generate some 6,000 gallons of wastewater per charge. This water consists of wood sap (approximately 1,800 gallons), vacuum seal water (approximately 3,900 gallons) and contact condensate.

There is a considerable amount of steam condensate produced in a day. This water is basically clean process water and averages some 6,500 gallons per day.

There is also a small amount of rainwater runoff that is collected and treated. This is the rainwater that collects in front of the treating cylinders and in the diked areas around the storage tanks. This water averages less than 1,000 gallons per one inch of rain.

		•	
See attached			
			10
			<del></del>
ist raw materials	wed: Wood and	creosote	
	80 ·		
9-5-ture 12-5-ture			
You must provi	ide the results of this table. Comple	sta ana babla ba	w mach make 11
You must provi	istics: ide the results of this table. Comple If your facilis	sta ana babla ba	w mach make 11
the city sever	de the results of this table. Comple to If your facility.	ete one table for y does not have	r each outfall a discharge in
You must provi	istics: ide the results of this table. Comple If your facilis	sta ana babla ba	w mach make 11
You must provi pollutant in t the city sever so and disrega Parameter	de the results of this table. Comple of the facility of the Haximum	ete one table for y does not have Maximun	r each outfall a discharge in Long Term Average Value
You must provi pollutant in a the city sever so and disrega Parameter	de the results of this table. Comple of the facility of the Haximum	ete one table for y does not have Maximun	r each outfall a discharge in Long Term Average Value 432 mg/1
You must provi pollutant in a the city sever so and disrega Parameter BOD <sub>5</sub>	de the results of this table. Comple of the facility of the Haximum	ete one table for y does not have Maximun	r each outfall a discharge in Long Term Average Value
You must provi pollutant in a the city sever so and disrega Parameter	de the results of this table. Comple of the facility of the Haximum	ete one table for y does not have Maximun	r each outfall a discharge in Long Term Average Value 432 mg/1
You must proving pollutant in the city sever so and disregard Parameter  BOD 5  COD	de the results of this table. Comple of the facility of the Haximum	ete one table for y does not have Maximun	Long Term Average Value  432 mg/1 + 1700 mg/1
You must proving pollutant in a the city sever so and disregal Parameter  BOD 5  COD  TSS	de the results of this table. Comple of the facility of the Haximum	ete one table for y does not have Maximun	Long Term Average Value  432 mg/1 + 1700 mg/1

B. Review the substances listed in Table One and indicate which of these substances you have reason to believe may be in your discharge. For instance you may use solvents or Biocides that contain one or more of the indicated solvents. For each substance indicated you must perform at least one analysis and report results.

A toxic pollutant scan for the 67 substances has not been performed on the treated wastewater. Since creosote is the only preservative used at the Columbus Facility, trace quantities of constituents found in creosote might be present in the treated wastewater discharge.

	Do you provide treatment for your wastewater? X Tes No
_	to you provide treatment for your wastewater: A res _ No
3	If yes, list and describe each treatment unit and attach a line schematic of the treatment system indicating each treatment unit and a water balance.
	See Attachment I
	·
•	
cert:	fy that I am familiar with the information contained in this applicate to the best of my knowledge and belief such information is true as
rreci	

October 29, 1984

Date Application Signed

#### ATTACHMENT I

KERR McGEE CHEMICAL CORPORATION

FOREST PRODUCTS DIVISION

COLUMBUS, MISSISSIPPI FACILITY

EPA-ID NO. MSD 990866329

Proposed changes in the handling and treatment of process wastewater at the Columbus, Mississippi Plant

Prepared by:
Continental Engineering Service
P. O. Box 752
Aberdeen, Mississippi

#### CONTENTS

EXISTING PLANT DESCRIPTION
PROPOSED TREATMENT SYSTEM
WASTEWATER CHARACTERISTICS
WASTEWATER TREATMENT TESTS



### 

116 John Street 33rd Floor New York, New York 10036 Telephone: (212) 587-9750 or (212) 587-9751 Telex: 126702 Cable: SWETTCRAW NYK

Octobe 10, 1984

Mr. Jack M. McMillan, Director Division of Solid/Hazardous Waste Management Mississippi Department of Natural Resources P.O. BOX 10385 Janckson, Mississippi 39209

RE: Kerr McGee Chemical Corp.
EPA ID # MSD 007025117
Hamilton, Mississippi
EPA ID # MSD 990866329 and
Columbus, Mississippi and
EPA ID # MSD 081387730
Meridian, Mississippi

Dear Sir:

Reference is made to my letter of August 15, 1984 a copy of which is attached.

Through negotiations we have agreed to extend the captioned policy until February 1, 1985. Please accept this letter as the required 60 day notice of cancellation of the "Hazardous Waste Facility Certificate of Liability Insurance" relating thereto.

We presume that Kerr - Mc Gee will obtain replacement coverage and provide you with a new Certificate prior to February 1, 1985 but we will not be responsible for their failure to do so.

Should you require further information or documentation from us please contact the undersigned.

Very truly yours,

SWETT & CRAWFORD MANAGEMENT COMPANY, LTD.

/ Sound /

Dominick J. Anzalone

Vice President

DJA:gml Enc. Len The See (Columbus)

Call Pete Snobin Thorday, Oct. 8th. 1984.

1. Address Testing of decontaminated equipment.

2. Address Certification when all of regule creasate is removed from atorge tank #2. (Prior to 90 day limit)

(405) 270-2395

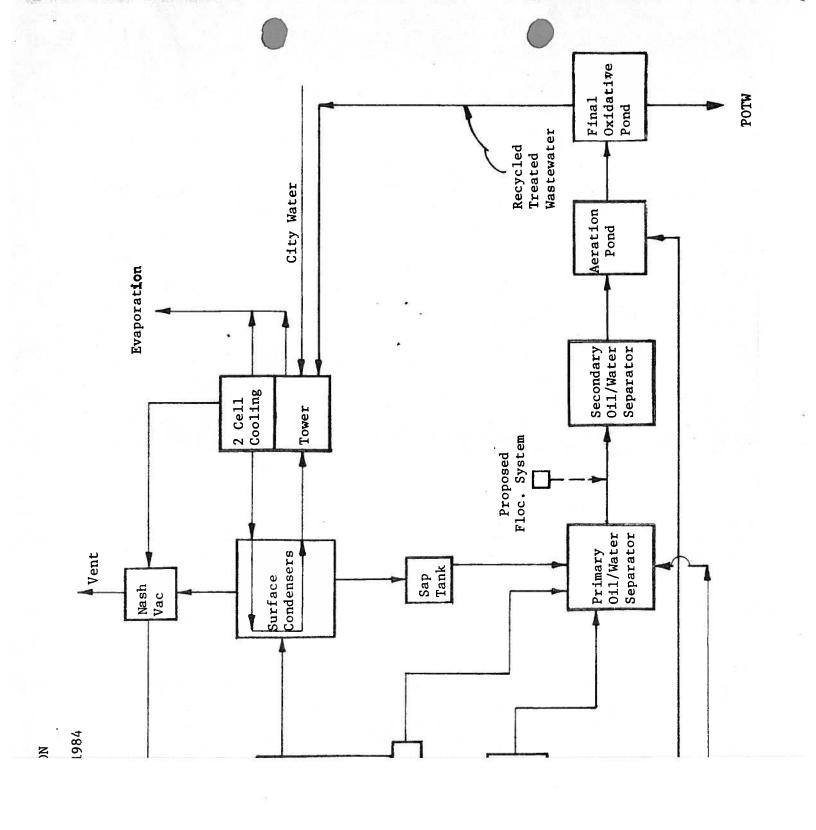
CallED 1505 has, Mr. Gaskin out of Town, will be back wednesday. Lett Mussage to RETURN MY

- Ju

10-12-84 8:30 AM

PETE GASKIN RETURNED MY CALL of MONDAY AND
WE DISCUSSED THE TWO ITEMS NEED for APPROVAL OF
THIS Closure - Plan. HE STATED IT would be towarded
TO MBPL WITHIN A NEEK.

Con



### WASTEWATER CHARACTERISTICS

The wastewater to be treated by the proposed treatment system includes boiler blowdown and all process wastewaters generated by the production process. Steam condensate will be recirculated to the boilers as boiler feed water.

Recent analyses of the wastewater show that the raw wastewater has the following characteristics:

Oil and Grease - 162.8 mg/l Phenol - 208.7 mg/l Pentachlorophenol - <1.0 mg/l BOD<sub>5</sub> - 322 mg/l 5.18

The volume of wastewater generated per day will vary from zero to a maximum of around 15,000 gpd. The plant is currently treating dry stock and the volume of wastewater is only 3,000 to 5,000 gpd. When the plant treats green wood, the flow of wastewater will increase to 10-15,000 gpd. This amount does not include potential benefits of recycling treated wastewater as makeup to the cooling tower and clean condensate reuse which together would reduce the volume of wastewater discharged by an estimated 5,000 gpd.

### WASTFWATER TREATMENT TESTS

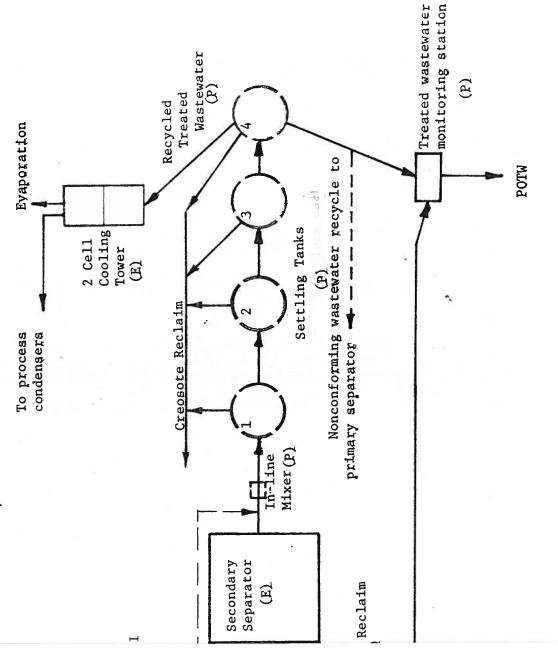
Kerr-McGee is presently studying proposals for the chemical treatment system. The suppliers under consideration are Drew Chemical and Mogul. Both suppliers have the ability to furnish the polymeric flocculants and the chemical injection and mixing equipment.

Tests recently conducted by the vendors indicate that the treated effluent quality will be as follows:

Oil and Grease - 40 mg/l Phenols - 100-300 mg/l Pentachlorophenol - < 1.0 mg/l BOD $_5$  - 250-450 mg/l PH - 6.0-9.0

CAL CORPORATION FOREST PRODUCTS DIVISION COLUMBUS, MISSISSIPPI ROCESS AND WASTEWATER FLOW DIAGRAM

SEPTEMBER, 1984



File: Kom in : Sea Columbia. October 3, 1984 Mr. P. C. Gaskin Environmental and Quality Control Kerr-McGee Chemical Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125 Dear Mr. Gaskin: Re: . Kerr-McGee Corporation Columbus, Mississippi We have reviewed the preliminary report which you submitted for the proposed pretreatment facility at your Columbus Plant. The report estimates the flow at the facility to range from 7,500 gpd to 15,000 gpd. We request that a detailed flow breakdown of the sources which comprise this amount be submitted to our office along with the anticipated characteristics of each source. As discussed with you, the proposed treatment actually represents a lower degree of treatment than presently exists. Specifically, we are concerned with the high level of phenolics which are estimated to be in this discharge. Once we receive the requested information we will be in a better position to determine if this discharge will be acceptable for discharge into the Columbus POTW. If you have any questions concerning this matter do not hesitate to contact me at 601-961-5171. Sincerely, Wm. Stephen Spengler, P.E. Industrial Wastewater Control Section WSS:cl THIS COPY FOR cc: Mr. John Herrmann, BPC

( love / lans Kerse when nove detail - sty by sty approach Transportation costs - VO where & disposed costs - Hyper Ton + any have equipmented tentes & Labour Wastewill Fratut system - I Trysoundonts Max. Invertog of waiter Transportation conte to when & # perior Egujuete Nestal Good etc. Egyervien (Enjimen Calification) Statend Newove all by wanter drawing showing ? Discharge to city Point at who cost i this the entire plant or just New areas

Meridian - non a dove

KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION COLUMBUS, MISSISSIPPI FACILITY EPA-ID NO. MSD 990866329

In April, 1984, Kerr-McGee Chemical Corporation, Forest Products Division, submitted to the Mississippi Bureau of Pollution Control a closure plan for the two surface impoundments at the Columbus, Mississippi Wood Preserving Facility. To facilitate closure, certain changes in the handling and treatment of the process wastewater will have to be completed. The purpose of this report is to present the process design for upgrading the existing system.

### EXISTING PLANT DESCRIPTION

The Columbus wood preserving facility was built in 1928 and acquired by Kerr-McGee Corporation in 1964. The main plant consists of approximately 90 acres (figure 1). At the present time, creosote coal tar solution is the only wood preservative used in the plant, although pentachlorophenol was also used until 1976.

Wastewater generated by the wood preserving process is passed through a primary oil/water separator and then split into two streams for parallel passage through a secondary dual-compartment oil/water separator (figure 2). Creosote settles in these vessels where it is recovered and returned to the process for reuse.

From the second stage separator, the waste streams are recombined and discharged to an aeration pond, then to an oxidation pond prior to discharge to the Columbus Publicly Owned Treatment Works (POTW).

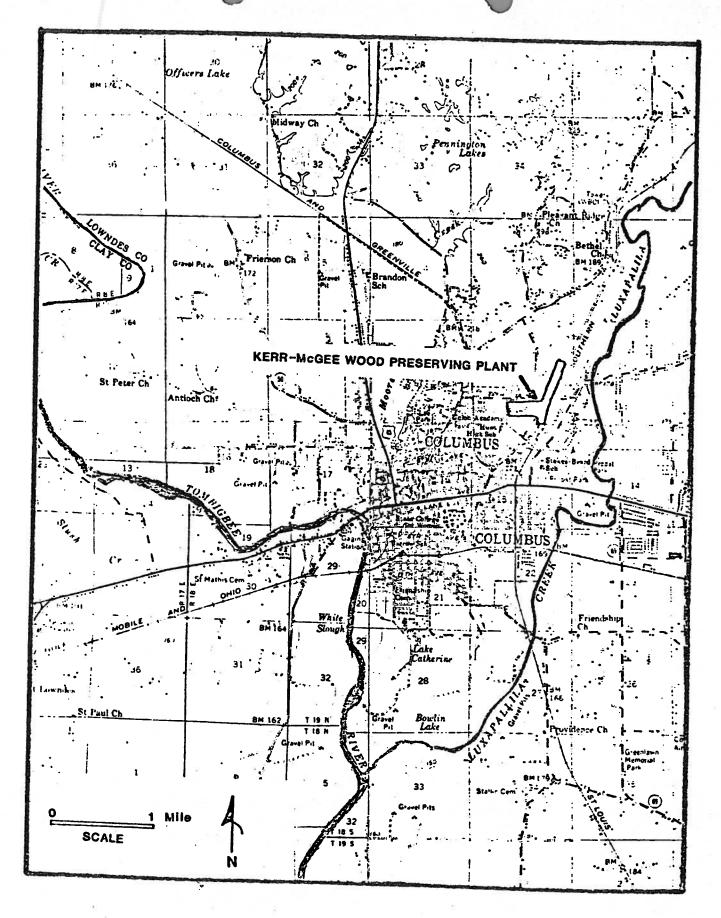
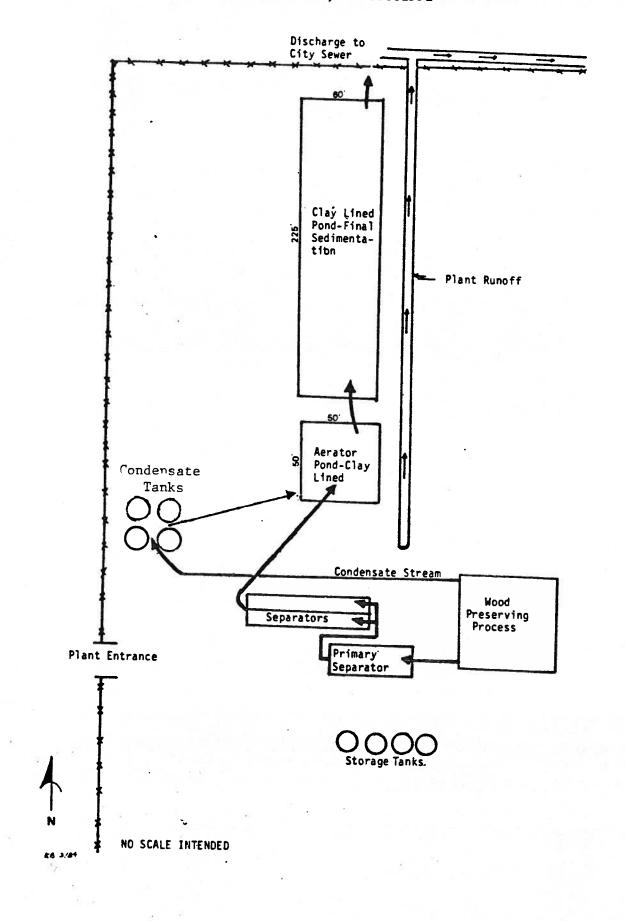


FIGURE 1: KERR-McGEE FACILITY LOCATION

FIG. 2 SCHEMATIC DIAGRAM KM WOOD PRESERVING PLANT COLUMBUS, MISSISSIPPI



Steam condensate and water that is not contaminated with creosote are discharged into four condensate receiving tanks, then discharged to the aeration pond for commingling and discharge with process wastewater.

### PROPOSED TREATMENT SYSTEM

Kerr-McGee is proposing to discontinue the use of the aeration pond and oxidation pond in accordance with State of Mississippi hazardous waste regulations. Before closure of the impoundments can begin, an improved wastewater treatment system will be installed, permitted and operated in accordance with Mississippi Water Pollution Control Law (Section 49-17-1, et seq., Mississippi Code of 1972). The system will pretreat the process wastewater prior to discharging it to the Columbus POTW. The new wastewater treatment system will replace the surface aeration pond and oxidation lagoon.

The proposed upgrading plan includes replacing the treatment effluent in the impoundments with chemical treatment. This will be accomplished by adjusting the pH of the effluent from the primary oil/water separator with caustic soda. A chemical feed pump and an in-line static mixer will feed and mix the caustic soda with the wastewater. Downstream of the caustic addition system and just prior to entering the secondary oil/water separators, a polymeric flocculant will be added to the waste stream with appropriate chemical feed pumps and inline mixers. The effluent from the secondary separators will be pumped to a series of four holding tanks with a capacity of approximately 60,000 gallons. From the fourth tank the wastewater stream will be recycled to the cooling tower for reuse and the balance released to the city sewer through a new discharge line at a controlled rate. A pH monitor and sampler will be installed to monitor the treatment plant's effluent and to insure that the effluent will comply with any requirements the Columbus POTW authority may deem as necessary prerequisites to the use of its sewage system and treatment works. Refer to the Proposed Wastewater Flow Diagram, dated September, 1984.



August 27, 1984

Mr. John Herrmann
Mississippi Department of
Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Herrmann:

Re: August 8, 1984 Meeting

This letter serves to confirm the items discussed at our August 8, 1984 meeting. Discussed at the meeting were the Columbus, Mississippi Closure Plan; the Meridian, Mississippi Closure Plan; Columbus Groundwater Quality Assessment Report, and the groundwater samples split between your office and our contract laboratory. Results of these discussions are summarized below:

### COLUMBUS GROUNDWATER QUALITY ASSESSMENT PLAN

It is understood that your office has received and reviewed the groundwater quality assessment report issued July 17, 1984, and that your office is in concurrence with the major points and conclusions presented in this report. Based on this we will be reverting back to the groundwater detection monitoring program typically required for hazardous waste management facilities. In addition, we will be collecting bi-monthly samples from the new upgradient well in order to develop a data base for conducting the necessary student t-test in the future.



Mr. John Herrmann August 27, 1984 Page #2

### COLUMBUS CLOSURE PLAN

The results of the groundwater quality assessment plan indicated that there was no contamination of the groundwater due to the hazardous waste management area. Based on this, it is understood that the closure plan should be revised and submitted as a "clean closure" plan. The post-closure plan will be deleted. It is understood that if "clean closure" cannot be effected or if subsequent groundwater monitoring indicates groundwater contamination, a post-closure plan may be necessary at that time.

As discussed at the meeting, Kerr-McGee will not be storing hazardous material (K001 sludge) during the closure of the impoundments. We will be pumping the recoverable product from the impoundment to our work tanks, and the material will be reprocessed into a useable creosote product. The product will be used by the facility during normal operation. The recovery process is very typical of wood preserving plants and has been ongoing at the Columbus plant for twelve years. To avoid any confusion with regard to the potential for storage of the material, Kerr-McGee will dedicate one of the two work tanks already existing at the facility to the recovery process. Any material recovered from the bottom of the impoundment will be pumped directly to the dedicated work tank and recycled as creosote within 90 days from the date we conclude pumping product from lagoon. We will revise the closure plan defining more clearly the recycle of the material from the impoundment. It is understood that based upon this revision, Kerr-McGee will not have to submit a Part B permit application for a storage facility.

The aforementioned revisions to the closure plan will be submitted to your office no later than September 17, 1984.

Mr. John Herrmann August 27, 1984 Page #3

### MERIDIAN CLOSURE PLAN

There seems to have been some confusion with regard to the deadline date for submittal of the Meridian Closure Plan. Kerr-McGee initially committed to submitting the closure plan on August 15, 1984. However, upon receipt of the court order requesting closure of the Meridian impoundments, the deadline of October 22, 1984 contained in the court order was thought to have superseded the previous obligation. A major effort is currently ongoing to submit the closure plan as soon as possible with an anticipated submittal date of no later than September 7, 1984.

### GROUNDWATER SPLIT SAMPLES

The results of the split sample analysis conducted in June, 1984 by your office and the contract laboratory for Kerr-McGee, Harmon Engineering and Testing, indicated minor differences in several areas. As we discussed, the difference cannot be explained without a major effort to evaluate the laboratory procedures used by both laboratories. The results developed by the Harmon Engineering laboratory were consistent with the previous results. Based on this, it is felt that there may be slight differences in analytical procedures used by both labs which has resulted in the minor differences in the results.

A GC mass spec scan for priority pollutants was conducted by your laboratory. The results indicated relatively small concentrations of a few priority pollutants in wells both at Meridian and Columbus. During the October sampling trip, Kerr-McGee will again sample and analyze all wells for the KOOl constituent, using a GC mass spec. This will reduce the detection limit to levels approaching 10 ppb as you requested in your letter dated August 14, 1984.

Mr. John Herrmann August 27, 1984 Page #4

Mr. Jeffrey Bull and I appreciated the time you spent with us to discuss the aforementioned matters. If we have misinter-preted our discussions or if you have any additional matters you would like to discuss, do not hestitate to contact us.

Sincerely,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

GASKIN

Environmental and Quality Control

PCG:rc



August 14, 1984

Mr. P. C. Gaskin Kerr McGee Chemical Corporation Kerr McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

This letter is written in response to your submittal of July 17, 1984, which included a report on Phase I of the Assessment Plan required by Commission Order No. 706-84. Kerr McGee has fulfilled the requirements of the Commission Order. However, the Bureau questions the sensitivity of the analyses performed to show that hazardous constituents have not migrated into the groundwater.

Last month, the Bureau split samples with Kerr McGee, the results from which have previously been transmitted to you. The only downgradient well which we sampled was No. 3; the basis for sampling this well was the fact that the TOC readings for this well were the highest of the three downgradient wells and No. 3 is located such that it would be the most likely of the wells to show contamination. We did not show contamination in this well. Therefore, we feel that it is likely that Kerr McGee is not affecting groundwater at the present time.

The Bureau is requesting that Kerr McGee resume semi-annual sampling, pursuant to MHWMR 265.93. However, during the next sampling round, we request that Kerr McGee also sample each well for the hazardous waste constituents, with a detection limit on the order of 10 parts per billion (i.e., a GC/MS scan) in order to confirm our findings and belief that Kerr McGee is not affecting groundwater. Sampling should be done no later than December 31, 1984.

We appreciate your compliance with the Commission Order and look forward to your continued cooperation.

Sincerely.

Jack McMillan, Director Division of Solid Waste Management

JM:JH:els

### FILE COPY

July 27, 1984

Mr. P. C. Geskin Savironmental & Quality Control Kerr HeGes Corporation Kerr HeGes Center Oxlahoma City, Oklahoma 75125

Dear Mr. Gaskin:

Se: MED081397730 (Neridian) MSD990866329 (Columbus)

Attached are results from sampling performed by the Bureau at the above facilities. The newly installed upgredient wells at both facilities indicated traces of heastdone constituents; therefore, I believe that these wells should be watched closely. I would valcome your comments along this line. Additionally, you will notice that NWI at Meridian indicated a fairly nightforms concentration of pentachlorophenol.

If you have any questions or comments, please contact se.

Sincorely,

John Herrmann Hazardous Vasta Hection

JH:ele Attachment

de: Mr. Jim Gook, EPA Mr. M. L. Dearman

Mr. Bobby Beioseau

### Evaluation of Closure Plan and Cost Estimate for Closure

1. Estimation of maximum inventory:

94,700 ft<sup>3</sup> sludge

200  $yd^3$  soil => 5400 ft<sup>3</sup> contaminated soil

Comment - Plan did not include removal of liner.

12 inch liner =>  $32,400 \text{ ft}^3$  contaminated liner

Total waste to be removed:  $132,500 \text{ ft}^3$ 

Wastewater: 708,400 gallons

2. Cost of liquid removal:

Assuming 5 HP pump fo 30,000 gpd removal

25 days x \$50.00/day = \$1,250

Cost of analysis prior to and during discharge:

\$100 per sample x 4 samples = \$400

3. Cost of sludge removal (front end loader assumed)

Output:  $100 \text{ yd}^3/\text{hr.} = 2700 \text{ ft}^3/\text{hr.}$ 

Cost:  $$1.30/yd^3 = $0.05/ft^3$ 

Total Hours:  $\underline{132,500 \text{ ft}^3} = 49 \text{ hours}$ 

 $2700 \text{ ft}^3/\text{hr}$ .

Cost: \$6625 ≈ \$6700

(dragline cost approximately 4 times this cost)

Hauling: \$3.00/loaded mile

Assume disposal at CWM  $\approx$  100 miles

Assume 20 yd<sup>3</sup> per truckload

=  $\frac{4910 \text{ yd}^3}{20 \text{ vd}^3}$  = 246 truckloads

 $246 \times $300 = $73,800$ 

<sup>\*</sup>All costs in 1982 dollars adjusted at end.

### Sampling:

Obtaining samples 1 hr. labor/sample

5 samples = 5 hrs. labor

Analysis of samples \$1000/sample (GC/MS) \$5,000

Disposal @ \$75/ton

 $[132,500 \text{ ft}^3] = 13.25 \times 10^6 \text{ lb.}$ 

 $= 6.63 \times 10^3 \text{ tons}$ 

 $6.63 \times 10^3 \text{ tons } \times 75 \text{ $/ton = $497,250}$ 

+ contingecy (taxes, etc.) € 10% = \$547,000

Backfill, with compaction  $2.00/yd^3 \Rightarrow 0.075/ft^3$ 

Soil and sludge =  $132,500 \text{ ft}^3$ 

Water -  $\frac{708,400 \text{ gal.}}{7.48 \text{ gal/ft}^3}$  = 95,000 ft<sup>3</sup>

 $\Rightarrow$  227,500 ft<sup>3</sup> x .075/ft<sup>3</sup> = \$17,100

Closure cost summary:

water 1,250. 400. sludge 6,700. 73,800.

49 hours 54 hours x \$35.00/hr. 5 hours = \$1,890

5,500. 547,000. 17,100.

1,890.

Certification of closure: \$1000

Other labor cost/supervision = 20,000

Total:  $674,140 \times 1.07 \times 1.04 = $750,000$ and 25% contingency = \$937,500

(dramatically different from the \$428,000 assumed by Kerr McGee; does not include installation of pretreatment system, which was accounted for in Kerr McGee's estimate).



July 17, 1984

### CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. John Hermann
Division of Solid Waste
Bureau of Pollution Control
Mississippi Dept. of Natural Resources
P. O. Box 10385
Jackson, Mississippi 39209



RE: Kerr-McGee Chemical Corporation Forest Products Division Columbus, Mississippi, Facility EPA I.D. No. MSD 990866329

Dear Mr. Hermann:

Attached, please find the report presenting the results of Kerr-McGee's Groundwater Quality Assessment Plan for the Columbus Facility. The report includes a discussion of the new upgradient well construction methods and initial groundwater quality analyses.

Please contact me at 405/270-2395, if you have any questions.

Sincerely yours,

KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. Gaskin

Environmental & Quality Control

PCG:jw Attachment

cc: B. W. Boisseau





ENGINEERING SERVICES DIVISION

July 5, 1984

Mr. John Herrmann Mississippi Department of Natural Resources Bureau of Pollution Control P. O. Box 10385 Jackson, Mississippi 39209

Dear Mr. Herrmann:

This letter is to confirm our telephone conversation of July 5, 1984, regarding the Groundwater Quality Assessment Plan (GQAP) results for Kerr-McGee's Forest Products Facility in Columbus, Mississippi.

In March, 1984 Kerr-McGee proposed a three-phased groundwater investigation which was approved by the Mississippi Department of Natural Resources in April, 1984 with phase one results to be completed by July 11, 1984. The phase one investigation included 1) an analysis of all wells for K001 constituents and other appropriate Appendix VII constituents, 2) the installation of a new upgradient monitor well, 3) "bailer tests" conducted on the present upgradient well and 4) an attempt to locate other nearby wells that may be sampled for background water quality. Kerr-McGee has completed all of the proposed steps in phase one, however several water quality analyses will not be completed by Kerr-McGee's contract laboratory (Harmon Engineering and Testing, Auburn, Alabama) until July 13, 1984.

As we discussed, Kerr-McGee will delay the submittal of the results of the Columbus Facility groundwater assessment until the necessary chemical analyses are completed. At the present time, we expect to submit a report of the results to you by July 20, 1984.

I am attaching at your request a copy of the initial KOOl analyses completed for the present monitor wells. As you can see, all values are below detectable limits except for naphthalene (2.8 mg/l) in well CMW-2. Harmon Engineering and Testing has resampled this well to confirm the naphthalene value. This analysis will also be completed by July 13, 1984.

Please contact P. C. Gaskingif you require further information.

Very truly yours

S. Michael Logan Manager of Hydrology

SML:dh

**Enclosure** 

ORD OF TELEPHONE CONVERSATION	Review.
Name of firm or party  Kon m - Gel - Columbne.  Address	
Contact	Phone
Letter of 6/27/84 appears to have adjusted addressed on concerns rained in of 5/23/84.	ingestor

Signature Signature

B/3/84.

Date

June 28, 1984

Mr. P. C. Gaskin Kerr McGee Chemical Kerr McGee Center Oklahoma City, Oklahoma

Dear Mr. Gaskin:

On June 12, 1984 and June 13, 1984, the Bureau of Pollution Control split samples with your contractor at your facilities in Meridian and Columbus, respectively. The following represents a brief discussion of our findings:

### MSD081587730 - Meridian

Our results indicate a significantly higher TOC reading than was identified in any of the previous results submitted. Specific conductance readings were also higher. Phenol reading was much higher in MVI but other readings were consistent with previous results.

We request that you provide an explanation of the discrepancy for the TOC reading. If you wish to talk with our laboratory director, his name is Philip Bass and he can be reached at 601-961-5185.

### M3D990866329 - Columbus

Although our specific conductivity readings are slightly higher, but in the range of those previously submitted, our TOC readings are significantly higher, especially for the two upgradient wells.

We also measured a significantly higher (by an order of magnitude) reading for phenol in NW3.

The TOC and phenol reading discrepancies should be explained, if possible.

The Bureau is still awaiting results from our contractor lab on the TOH results. These results will be forwarded to you upon receipt. We would appreciate receiving a response from you concerning the above items within 30 days.

Sincerely,

Jack McMillan, Director Division of Solid Veste Management

JH: JH: els Enclosure

cc: Mr. Bobby Boisseeu, Columbus Mr. H. L. Dearmen, Meridian

# HARNON ENGINEERING & TESTING AUBURN INDUSTRIAL PARK, AUBURN, AL 36830-4399 (205) 821-9250

### LABORATORY RESULTS

DATE DATA TRANSMITTED 6/5/84 DATE SAMPLE RECEIVED HE&T PROJECT 661-09 73125 Oklahoma City, OK Kerr McGee Center Kerr McGee

4/25/84

										smittal
	Well #4 10457	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	Approved for Transmittal
	Well #3 10456	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
CLIENT JOB REFERENCE	Well #2 10455	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
CLIENT JOB	Well #1 10454	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
askin	Client Sample Identification	Pentachlorophenol mg/L	Phenol mg/L	2-Chlorophenol mg/L	p-Chloro-m-cresol mg/L	2, 4-Dimethylphenylmg/L	2, 4-Dinitrophenol mg/L	${\tt Trichlorophenols}_{\tt mg/L}$	Creosote mg/L	
ATTN: Pete Gaskin	HE&T Sample Number									



Laboratory Manager

cc: Bob Boisseau

### FILE COPY

May 16, 1984

Mr. P. C. Gaskin Kerr McGee Chemical Corporation Kerr McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

This letter responds to your submission of April 9, 1984, which announced your intent to close the existing surface impoundments in lieu of submitting Part B. The Bureau wishes to have the following clarifications made prior to further processing of this request:

- 1. The revised Part A, dated April 6, 1984, still shows "SO4-708, 400 gallons". To which impoundment does this refer?
- 2. The closure plan indicates that all sludge and contaminated soils will be removed, in accordance with the levels set by the Department. Simultaneously, a post-closure plan has been submitted, based on the assumption that continued monitoring will be required as a contingency, should (1) it not be feasible to remove all of the contaminated soil or (2) the assessment plan currently underway identifies a contaminant plume.

We require that the post-closure plan identify the costs associated with the activities necessary to maintain final cover, conduct groundwater monitoring, etc. A post-closure permit may be required for this facility and the permit must include these items. (See ment below).

e specie of the impoundment), we have some basic disagreements ion of this ficity within the plan. We request comments on our ce document be closure activities. In addition, I have attached a li necessary for which should assist you in developing the level of approval of the closure plan.

attached additional guidance for ufficient detail; therefore, I have realize that the degree of post-closushe post-closure plan. Although we closure activities, we recommend that a secare is contingent upon the developed - if the closure activities dicta complete post-closure plan be the post-closure plan is appropriate, this can be that a modification of Finally, it is our understanding that EPA is developed be easily accommodated. post-closure permit applications - we will forward a loping guidance on copy to you when

Mr. P. C. Gaskin May 16, 1984 Page -2-

We would appreciate receiving your amended closure and post-closure plan/permit application by the original due date of your Part B (i.e., June 11, 1984). If this is not possible, please submit a schedule indicating when we can expect to receive the revised closure plan by June 1, 1984.

Sincerely,

Jack McMillan, Director Division of Solid Waste Management

JM: JH:els Attachment

co: Ms. Beverly Spagg, EPA Region IV

## HARNON ENGINEERING & TESTING Auburn industrial park, auburn, al 36830-4399 (205) 821-9250

### LABORATORY RESULTS

73125 Oklahoma City, OK Kerr McGee Center Kerr McGee

ATTN: Pete Gaskin

HE&T PROJECT 661-01

DATE SAMPLE RECEIVED

4/25/84

6/5/84

DATE DATA TRANSMITTED

CLIENT JOB REFERENCE

Well #3 10456 Well #2 Well #1 10454 Client Sample Identification

10455 <0.5

<0.5

<0.5

<0.5

Fluoranthene mg/L

Naphthalene mg/L

Chrysene mg/L

Number Sample HERT

Well #4

10457

<0.5

<0.5

<0.5

<0.5

2.8 <0.5

<0.5

<0.5

<0.5

<0.5

<0.5

Benzo(b) Fluoranthene

<0.5

<0.5

<0.5

<0.5

Benzo(a) Pyrene mg/L

7

 $\nabla$ 

Indeno (1, 2, 3-cd)
Pyrene mg/L

<0.5

7

7

Approved for Transmittal

Laboratory Manager

## HARNON ENGINEERING & TESTING

### LABORATORY BESULTS

73125 Oklahoma City, OK ATTN: Pete Gaskin Kerr McGee Center Kerr McGee

HE&T PROJECT 661-09

DATE SAMPLE RECEIVED 4/25/84

DATE DATA TRANSMITTED

6/5/84

Sample Number

CLIENT JOB REFERENCE

Well #3 Well #2 Well #1 10454 Client Sample Identification

<0.5 Benz(a) Anthracene

10455

Well #4 10457

10456

<0.5

<0.5

<0.5

<0.5

<0.5

<0.5

Dibenz(a) Anthracene

<0.5

<0.5

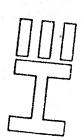
<0.5

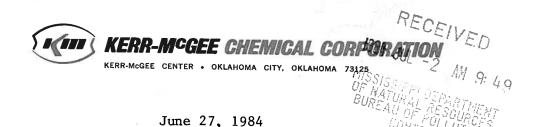
Acenaphthalene

<0.5

<0.5

Approyed for Transmittal





Director
Division of Solid Waste Management
Mississippi Department of Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39209

Attention: Mr. David Lee

Dear Mr. Lee:

Re: MSD 990866329 Columbus Facility Kerr-McGee Chemical Corp. Forest Products Division

This is our response to your report of the inspection conducted by John Herrmann at our Columbus Facility on May 23, 1984. Each response is numbered to correspond with the numbered items in your letter.

- Item 1. The monthly inspection report is now being used as a daily checklist to more clearly define the conditions of the HWMA and associated monitoring wells and processing areas.
- Item 2. Arrangements with the local police, fire department, ambulance service and hospital will be documented in the contingency plan by July 9, 1984.

We will file the first phase report of the groundwater assessment program by July 11, 1984.

Should you have any questions, please contact me.

Very truly yours,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

Environmental and Quality Control

PCG:rc

cc: B. W. Boisseau - w/copy of inspection report



June 21, 1984

Mr. Jim Cook
Waste Compliance Section
U. S. Environmental Protection Agency
Region IV
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Dear Mr. Cook:

Attached are the closure plans for Kerr McGee (Columbus) and Kerr McGee (Meridian). Also attached are the financial instruments for closure and liability that you requested.

I wish to remind you that both facilities have expressed their desires to close their existing impoundments; we have reviewed the Columbus facility closure plan in detail. Meridian's facility is currently under a Commission Order to submit a Part B in December; we anticipate receiving a revised closure plan in August.

If you have any questions, please contact me at 601/961-5071.

Sincerely.

John Herrmann Hazardous Waste Section

JH:els Attachment

CORD OF TELEPHONE CONVERSATION					
Name of firm or party Kerr M = Gee.					
Address					
Contact Pete Gashin	Phone				
	1 11+				

Mr. Gaskin colled the claure Pln would be miles on Monday (6/18/84) and therefore would likely not be received by the 6/11/84 Note. I told him that the missing of the Vake bised solely on mil delivery would not be Significial problem. We also briefly discussed the sampling of the wells in Meridia and Columbs next week.

June 5, 1984



### CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. P. C. Gaskin Kerr McGee Chemical Corporation Kerr McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

Re: MSD990866329

Columbus, Mississippi

On May 23, 1984, John Herrmann of my staff conducted an inspection of your Columbus facility. The facility was found to be in substantial compliance with the interim status standards contained within Mississippi Hazardous Waste Management Regulations, Part 265. A copy of the checklist is attached. However, the following items are brought to your attention for correction:

Regulatory Cite	Comment
265.15	The inspection checklist should more clearly define the types of problems for which inspections are made. I recommend that as items are checked, an active check is recorded, rather than the more passive way inspections are currently being made.
265.56	Arrangement with local authorities must be documented in the contingency plan.
	265.15

You are reminded of your requirement to submit the revised closure plan by June 11, 1984. Documentation that the above two citations have been corrected should be submitted within 30 days.

I appreciate your cooperation to date in completing the groundwater assessment program currently being undertaken at the site. I remind you that the compliance date for filing the first phase report with us is July 11, 1984. I also request that you respond to the above citations with your proposal to meet these requirements within 30 days.

Sincerely.

Jack M. McMillan, Director Division of Solid Waste Management

JMM: hdb
Attachment

cc: Mr. Bobby Boisseau, Columbus, Mississippi Mr. Jim Cook, Environmental Protection Agency, Region IV May 16, 1984

FILE COPY

Mr. Pete Gaskin Kerr-McGee Chemical Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

Re: MSD990866329

As we discussed previously, the Bureau of Pollution Control is attempting to identify hazardous waste constituents for which analysis must be performed under the assessment plan which you are currently implementing at the Columbus facility. I have attached our proposal for your review and comment. I would appreciate any assistance you could provide in developing a final list of constituents for analysis.

I look forward to seeing you on May 23, in Columbus.

Sincerely,

John Herrmann Division of Solid Waste Management

JH:hdb Attachment



April 11, 1984

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Paul Bierstine
Environmental Protection System
C/O Bureau of Pollution Control
Mississippi Dept. of Natural Resources
P. O. Ber 10385
Jackson, MS 39209

RE: Kerr-McGee Chemical Corporation Forest Products Division Columbus Facility

Dear Mr. Bierstine:

In response to your letter dated March 19, 1984, concerning Preliminary Assessment of the Kerr-McGee Chemical Corporation, Forest Products Division, Columbus Facility, (RCRA 3012 HW Site Inventory), attached are the answers to your questions.

Should you have any further questions, please contact me.

Very truly yours,

KERR-MCGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. Gaskin

Environmental & Quality Control

PCG:jw Attachments

cc: B. . Boisseau



### KERR-McGEE CHEMICAL CORPORATION - COLUMBUS PLANT

### QUESTIONS AND ANSWERS - COLUMBUS PLANT

1. Year of initial operation listed as 1928. Is this correct?

Answer: Yes.

Were there wood treating activities by others on this site prior to that (1928) time?

Answer: No.

- 2. Other than the boiler blowdown ditch used in the past and the present impoundment, are there:
  - a. Any filled-in surface impoundments or landfills onsite used for past disposal of creosote waste?

Answer: Prior to 1972 there was a surface impoundment used to temporarily store settled creosote until it could be reclaimed and cycled back to the process storage tanks. Following completion of the new oil/water separation facilities in 1972 all creosote and visible settled sludge was removed by pumping and dredging, reclaimed and recycled to preservative storage tanks for reuse in the wood preserving process. The use of the impoundment to contain preservative and wastewater discontinued in 1972. It was closed in 1983.

b. Any buried drum waste disposal onsite?

Answer: No.

Columbus Page #2

c. Any other past surface disposal practiced onsite?

Answer: Yes. The use of two small wastewater sand filter beds closed in 1980. Additional oil/water separation equipment installed in 1980 replaced these filter beds. They were by-passed by the treated process water flow, and left in place. Rainfall and runoff entering the filter beds from time of abandonment in 1980 to 1983 flushed out all traces of filtered floc cake and creosote to the wastewater pretreatment facility. In June 1983 the two small filter beds and underlying gravel courses were found to not contain any trace of creosote or sludge and were subsequently closed.

d. Any offsite disposal used and where located?

Answer: No.

3. When did current surface impoundment go into operation and what was done with creosote wastes prior to that time?

Answer: In 1972. Wastewater containing traces of creosote was discharged off-site into an unnamed drainage ditch.

4. Have any penta or CCA preservatives been used at Columbus?

Answer: Penta, which was discontinued in 1976.

5. Have there been any significant spills of creosote or other chemical preservatives onsite (i.e., drums, truck or rail tank cars)?

Answer: No.



April 9, 1984

CERTIFIED-RETURN RECEIPT REQUESTED (AIR EXPRESS)

Mr. John Herrmann Division of Solid Waste Bureau of Pollution Control Mississippi Department of Natural Resources P. O. Box 10385 Jackson, MS 39209 APR 1 & REC'D

DEFT C PESOUPCE
BUREAU OF FULL JAMES CONTROL

RE: Kerr-McGee Chemical Corporation Forest Products Division Columbus, MS Facility EPA I.D. No. MSD 990866329

Dear Mr. Herrmann:

Submitted herewith are four copies of the Kerr-McGee Chemical Corporation, Forest Products Division amended closure and post-closure plan for the subject plant.

This plan is submitted in place of a Part B permit application which we elect not to submit. After closure of the hazardous waste units at this location, the plant will maintain generator status only, and all hazardous wastes that may be generated in the future will be transported offsite for final disposal.

Before actual closure of the existing surface aeration and oxidation ponds can begin, a new waste water pretreatment system will be installed and operated. Our present schedule, subject of course to approval of the plan and proposed time tables is to complete the new pretreatment system, have it operational and permitted by MBPC by October 15, 1984.

October 22 is the estimated date final discharge of HW will occur to the existing ponds.

Closure will commence October 24, again contingent on meeting prior dates as described in the plan.

Closure will be completed by December 31, 1984 and certification thereof provided to MBPC by January 15, 1985, according to our plan.



John Herrmann April 9, 1984 Page 2

Please contact me at 405/270-2395 when you wish to review and discuss this plan with us.

Sincerely,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. Gaskin

Supervisor Environmental Contol

PCG/JL Enclosures March 29, 1984

Mr. P. C. Gaskin
Environmental and Quality Control
Kerr McGee Corporation
Kerr McGee Center
Oklahoma City, Oklahoma 73125

FILE COPY

Dear Mr. Gaskin:

In response to your letter of March 21, 1984, and the assessment plan attached thereto, the Bureau intends to request that the Commission issue an Order, requiring Kerr McGee to proceed with implementation of the plan. The Commission's action will be taken on April 11, 1984.

By copy of this letter, we are informing the Environmental Protection Agency of this action. We are also forwarding a copy of the assessment plan to EPA for review and comment.

If you have any questions with regard to this action, do not hesitate to contact me at 601-961-5171.

Sincerely,

John Herrmann Division of Solid Waste Management

JH:cm cc: Hr. James Scarbrough, EPA Region IV



March 21, 1984

CERTIFIED - RETURN RECEIPT REQUESTED AIR EXPRESS

Mr. John P. Herrmann
Division of Solid Waste
Bureau of Pollution Control
Mississippi Department of Natural Resources
P. O. Box 10385
Jackson, MS 39209

Dear Mr. Herrmann:

Re: Kerr-McGee Chemical Corporation Forest Products Division Columbus, MS Facility EPA I.D. No. MSD 990866329

Submitted herewith are two copies of the Kerr-McGee Chemical Corporation, Forest Products Division, Columbus Facility Groundwater Assessment Plan. Please note that the well construction diagrams have been included in the Plan.

Should you have any questions, please contact me at (405) 270-2395.

Very truly yours,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. GASKIN

Environmental and Quality Control

PCG:rc enc.

cc: B. W. Boisseau - with attachment





March 8, 1984

Mr. P. C. Gaskin Kerr McGee Chemical Corporation Kerr McGee Center Oklahoma City, OK 73125

Dear Mr. Gaskin:

Re: MSD 990866329

As a follow-up to our meeting of March 7, 1984, and in response to our letter of February 22, 1984, the following items were found to be in agreement:

- (1) Kerr McGee would submit a complete assessment plan as quickly as possible.
- (2) Following submittal of the assessment plan, the Bureau would review, andiff necessary, modify the plan and recommend that the Commission issue an order making the plan enforceable at its April meeting.
- (3) Kerr McGee would include in the plan the installation of another upgradient well, in order to verify the nature of the background groundwater quality in the area.
- (4) The Bureau will supply a list of parameters for analysis based on the hierarchical approach developed by EPA within two weeks.
- (5) Kerr McGee would submit a preliminary closure plan for its Columbus surface impoundment by April 9, 1984.

If you have any questions concerning these items, please contact me at 601-961-5071. I appreciate your cooperation and willingness to resolve the question as to potential contamination of the aquifer underlying the Columbus facility.

Sincerely,

John P. Herrmann Division of Solid Waste





February 22, 1984

FILE COPY

Mr. P. C. Gaskin Kerr-McGee Chemical Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

Re: MSD990866329

This letter acknowledges receipt of your letter of February 8, 1984, regarding the detection of groundwater contamination at your Columbus facility. As you are aware, the Mississippi Hazardous Waste Management Regulations require that you implement a groundwater quality assessment program.

The groundwater quality assessment program outline which you submitted should form the basis of a suitable assessment program, and fulfill the regulatory requirements of MHWMR 265.93(a). Of course, the specific groundwater monitoring program is required within 15 days of notification as set forth in MHWMR 265.93(d)(2).

Since the above facility has been requested to submit its Part B (refer to our letter of December 9, 1983), we believe that it is imperative that any groundwater assessment program initiated at the site be coordinated with the permitting standards contained within MIWMR 264. Office in Jackson at 2:00 p.m. on March 8. 1984.

You should likewise be advised of our intent to bring this matter before the Commission on Natural Resources at its regularly scheduled meeting on March 14, 1984. We will request that an Administrative Groundwater assessment plan to be discussed (and hopefully approved) at the March 8 meeting.

If you require further clarification of our position, please contact John Herrmann of my staff at (601) 961-5071.

Sincerely,

Jack M. McMillan, Director Division of Solid Waste Management

JMM: JH: hdb



August 25, 1983



SEP - 1 REC'I

Mr. Robert A. Lee
Division of Solid Waste Management
Bureau of Pollution Control
Mississippi Department of Natural Resources
P. O. Box 10385
Jackson, MS 39209

Re: Kerr-McGee Chemical Corporation Forest Products Division Columbus Facility MSD990866329

Dear Mr. Lee:

Reference your inspection report and letter to Mr. Boisseau, dated August 11, 1983, attached are the documents and answers to your questions pertaining to the June 6 inspection of our Columbus facility:

The Columbus RCRA Training Record provides the names, titles, job descriptions, and training dates of the key facility hazardous waste coordinators.

The freeboard at the surface impoundment will be increased to two feet.

I understand you now have the first year baseline groundwater monitoring data, which was included with the 1982 Annual Report.

Well diagrams and lithologies of the one upgradient and three downgradient monitoring wells.

A blueprint showing well elevations and locations.



Mr. Robert A. Lee Page #2 August 25, 1983

This information should provide you sufficient data to complete your evaluation of the groundwater monitoring system at the Columbus facility.

Please call me if you have any questions.

Very truly yours,

KERR-McGEE CHEMICAL CORPORATION FOREST PRODUCTS DIVISION

P. C. GASKIN

Environmental and Quality Control

PCG:rc enc.

cc: B. W. Boisseau

W. J. Broussard

J. C. Stauter



August 11, 1983

Mr. B. W. Boisseau Plant Manager Kerr McGee Chemical Corporation P. O. Box 906 Columbus, Mississippi 39701

Dear Mr. Boisseau:

Re: MSD990866329

Interim status inspection and groundwater monitoring inspections were conducted at your facility on June 6, 1983. During the inspection I discussed with you the requirement for all personnel related to hazardous waste to have a job title and job description as their position relates to hazardous waste.

Regarding the question of freeboard at your impoundment, we must require that the two feet of freeboard required in Subpart K, Section 265.222 of the Hazardous Waste Regulations, be established and maintained. However, our office would consider a formal written request for less freeboard. Should you choose to submit such a request, you should include substantiating documentation that less freeboard would, in your case, provide adequate protection against discharges due to overtopping the dike. Such documentation should include, as a minimum, design and construction specifications of the impoundment, any records you have to demonstrate that an overflow has never occurred; rainfall records for the period during which the facility has been operated and records to document that maintaining freeboard has not caused violation of your POTW discharge permit. Any additional information you consider pertinent should be submitted. Because it would appear that, whatever the circumstances, two feet of freeboard should offer greater assurance of protection than would eighteen inches, your documentation to the contrary should be as strong as possible.

It is impossible for our office to complete an evaluation of your groundwater monitoring system until you submit the first year's monitoring results and appropriate analyses, all well logs, and construction of the wells, and a plot plan with all monitoring wells indicated.

Very truly yours,

Robert A. Lee Division of Solid Waste Management

RAL:els



July 19, 1992

Mr. P. C. Gaskin Kerr-McGee Chemical Corporation P. O. Box 25361 Oklahoma City, Oklahoma 75125

Dear Mr. Gaskin:

Re: Required Groundwater Monitoring Parameters

At an earlier date, the Division of Solid Waste Management granted you permission to delete certain parameters from the groundwater monitoring parameters required in the Mississippi Materdous Waste Regulations. This waiver was based on the rationale that only constituents in the waste stream or MPA has informed us that this waiver of selected parameters would cause the State's regulation program to be less stringent than the federal program.

Therefore, an must require that the remaining first year's monitoring samples be analyzed for all the parameters stipulated in the regulations.

If a decision is made to allow a return to the waiver of certain parameters. we will notify you immediately. We regret any inconvenience this may have caused you.

Sincerely,

David D. Lee, P.E. Division of Solid Waste Management

DEL: cl

April 5, 1982

FILE COPY

Mr. P. C. Gaskin
Forest Products Division
Kerr-McGee Chemical Corporation
Kerr-McGee Center
P. O. Box 25861
Oklahoma City, Oklahoma 73125

Dear Mr. Gaskin:

The first quarter monitoring results for the Meridian facility have been received. As discussed previously and requested in your March 26th letter, monitoring for the next three quarters may be reduced to those parameters indicative of potential contamination from the facility in Meridian. These parameters are listed in your letter and in Section 265.92(b)(3) and 265.92(b)(2) (phenols only) of the Hazardous Waste Regulations.

After the first year, sampling will revert to the schedule outlined in the regulations, except some of the parameters may be eliminated. An evaluation of possible deletions from the parameters will be made by this office after receipt of the first year's monitoring results.

If you have any questions, please feel free to contact us.

Sincerely,

David E. Lee, P. E., Environmental Engineer Division of Solid Waste Management

DEL: cm

cc: Mr. Robert A. Lee, Division of Solid Waste Management

DL ownder April 5, 1982 Mr. P. C. Gaskin Forest Products Division Kerr-McGee Chemical Corp. Kerr-McGee Center P. O. Box 25861 Oklahoma City, OK 73125 Dear Mr. Gaskin: The letter sent to you, dated April 5, incorrectly referred to the Meridian facility regarding changes in the ground-water monitoring plan. The changes are applicable to the Kerr-McGee facility at Columbus. Please excuse the error and make note of this change. Sincerely, David E. Lee, P.E. Division of Solid Waste Management DEL: cb cc: Mr. Robert A. Lee, Division of Solid Waste Management

Lowin FILE CULY

January 29, 1982

Gilbert Lowe, Superintendant Kerr-McGee P. O. Box 506 Columbus, Mississippi 39701

Dear Mr. Lowe:

Re: Interim Status Inspection of January 21, 1982

A inspection of your facility was conducted on the above mentioned date. Attached is a copy of the inspection. Substantial compliance with all applicable requirements was noted on the inspection form.

I would like to thank you and the environmental staff of your organization for the fine job you did on this inspection.

If you have any questions, please call me at 961-5066.

Sincerely,

Robert A. Lee, Sanitarian I Division of Solid Waste Management

RAL:cl Attachment

FILE CC. 1

January 26, 1982

Mr. T. L. Bentley Senior Staff Environmental Engineer Kerr-McGee Corporation P. O. Box 25861 Oklahoma City, Oklahoma 73125

Dear Mr. Bentley:

We have received your letter regarding monitoring requirements at the Mississippi facilities. We are conducive to deleting some of the parameters listed in the hazardous waste regulations. However, we do not want to give the impression that only possible contaminants in the waste should be considered. We feel that the four general analyses listed in Section 265.92 (b)(3) should be conducted as specified for a general indication of contamination. The parameters in (b)(1) and (b)(2) may be run as they apply to the facility's waste stream. Additionally, parameters should be conducted which are likely or known to be hazardous constituents of the waste stream. We will concur or not concur with these parameters upon submission of the first quarter's monitoring results.

If you have further questions, please feel free to contact us.

Sincerely,

David E. Lee, P.E., Environmental Engineer Division of Solid Waste Management

DEL:cl

April 28, 1981 Mr. Gilbert Lowe, Superintendent Kerr McGee Chemical Corporation 507 14th Street North Columbus, MS 39701 Dear Mr. Lowe: As you know, David Lee and I inspected the Kerr McGee Columbus facility on April 22, 1981, and found it to be in substantial compliance with all applicable regulations. Enclosed is a copy of the inspection form. If you have questions regarding this matter, feel free to contact this office. Sincerely, Um Handasc

Jim Hardage, Chemist Solid Waste Management Branch

JH/cs

cc: Sam Mabry

Enclosure