

GRENADA COUNTY - TIE PLANT MS
KOPPERS INC
COMPLIANCE
MSD007027543
1989

AI 00876

Koppers Inc

General Information

ID	Branch	SIC	County	Basin	Start	End
876	Energy and Transportation	2491	Grenada	Yazoo River	11/09/1981	

Address

Physical Address (Primary)	Mailing Address
1 Koppers Drive Tie Plant, MS 38960	PO Box 160 Tie Plant, MS 38960

Telecommunications

Type	Address or Phone
Work phone number	(662) 226-4584, Ext. 11

Alternate / Historic AI Identifiers

Alt ID	Alt Name	Alt Type	Start Date	End Date
2804300012	Koppers Inc	Air-AIRS AFS	10/12/2000	
096000012	Koppers, Inc.	Air-Title V Fee Customer	12/11/2006	
096000012	Koppers Industries, Inc.	Air-Title V Operating	03/11/1997	03/01/2002
096000012	Koppers Industries, Inc.	Air-Title V Operating	01/13/2004	03/26/2007
096000012	Koppers Inc	Air-Title V Operating	03/26/2007	01/01/2009
MSR220005	Koppers Industries, Inc.	GP-Wood Treating	09/25/1992	
MSD007027543	Koppers Industries, Inc.	Hazardous Waste-EPA ID	08/27/1999	
HW8854301	Koppers Industries, Inc.	Hazardous Waste-TSD	06/28/1988	06/28/1998
HW8854301	Koppers Industries, Inc.	Hazardous Waste-TSD	11/10/1999	03/26/2007
HW8854301	Koppers, Inc. (Owner)	Hazardous Waste-TSD	03/26/2007	09/30/2009
876	Koppers Industries, Inc.	Historic Site Name	11/09/1981	12/11/2006
876	Koppers, Inc.	Official Site Name	12/11/2006	
MSP090300	Koppers Industries, Inc.	Water-Pretreatment	11/14/1995	11/13/2000
MSP090300	Koppers Industries, Inc.	Water-Pretreatment	09/18/2001	08/31/2006
MSP090300	Koppers Inc	Water-Pretreatment	03/26/2007	02/28/2012
MSU081080	Koppers Industries, Inc.	Water-SOP	11/09/1981	11/30/1985

Regulatory Programs

Program	SubProgram	Start Date	End Date
Air	Title V - major	06/01/1900	
Hazardous Waste	Large Quantity Generator	08/27/1999	
Hazardous Waste	TSD - Not Classified	06/28/1988	
Water	Baseline Stormwater	01/01/1900	
Water	PT CIU	11/14/1995	
Water	PT CIU - Timber Products Processing (Subpart 429)	11/14/1995	
Water	PT SIU	11/14/1995	

Locational Data

Latitude	Longitude	Metadata	S / T / R	Map Links



33 ° 44 ' 3 .00 (033.734167)	89 ° 47 ' 8 .06 (089.785572)	Point Desc: PG- Plant Entrance (General). Data collected by Mike Hardy on 11/8/2005. Elevation 223 feet. Just inside entrance gate. Method: GPS Code (Psuedo Range) Standard Position (SA Off) Datum: NAD83 Type: MDEQ	Section: Township: Range:	SWIMS TerraServer Map It
---------------------------------	---------------------------------	---	--	--------------------------------

4/3/2007 12:58:30 PM





Mississippi Department of Environmental Quality
Office of Pollution Control

I-sys 2000 Master Site Detail Report

Site Name: Koppers Industries Inc

<u>PHYSICAL ADDRESS</u>	<u>OTHER INFORMATION</u>
LINE 1: Tie Plant Road	MASTER ID: 000876
LINE 2:	COUNTY: Grenada
LINE 3:	REGION: NRO
MUNICIPALITY: Tie Plant	SIC 1: 2831
STATE CODE: MS	AIR TYPE: TITLE V
ZIP CODE: 38960-	HW TYPE: TSD
<u>MAILING ADDRESS</u>	SOLID TYPE:
LINE 1: PO Box 160	WATER TYPE: INDUSTRIAL
LINE 2:	BRANCH: Energy
LINE 3:	ECED CONTACT:
MUNICIPALITY: Tie Plant	Collier, Melissa
STATE CODE: MS	BASIN:
ZIP CODE: 38960-	
AIR PROGRAMS <input checked="" type="checkbox"/> SIP <input type="checkbox"/> PSD <input type="checkbox"/> NSPS <input type="checkbox"/> NESHAPS <input type="checkbox"/> MACT	





**Mississippi Department of Environmental Quality
Office of Pollution Control**

Permits

PROGRAM	PERMIT TYPE	PERMIT #	MDEQ PERMIT CONTACT	ACTIVE
AIR	TITLE V	096000012	Burchfield, David	YES
WATER	PRE-TREATMENT	MSP090300	Collins, Bryan	YES
HAZ. WASTE	TSD	HW8854301		YES
HAZ. WASTE	EPA ID	MSD0007027543		YES
HAZ. WASTE	TSD	HW8854301	Stover, Wayne	YES

Compliance Actions

MEDIA	ACTIVITY TYPE	SCHEDULED	COMPLETED	INSPECTED B
HAZ WASTE	Financial Record Review	1/18/00	1/18/00	Twitty, Russ
WATER	CMI - PRETREATMENT			Whittington, Darryll
WATER	CEI - PRETREATMENT	9/30/00		Twitty, Russ
WATER	CEI - NA	9/30/00		Twitty, Russ
HAZ WASTE	Compliance Evaluation Inspection	9/30/00		Twitty, Russ
AIR	State Compliance Inspection	9/30/00		Twitty, Russ
WATER	CEI - NA	3/2/99	3/2/99	Twitty, Russ
HAZ WASTE	Compliance Evaluation Inspection	3/2/99	3/2/99	Twitty, Russ
AIR	State Compliance Inspection	3/2/99	3/2/99	Twitty, Russ



Agenda
Koppers Company, Inc.
Beazer Materials & Services, Inc. (BM&S)
Koppers Industries, Inc. (KII)
May 24, 1989
2:00 p.m.

- ✓ 1. Status of Sprayfield at Grenada Plant
- ✓ 2. Closure Plan Status
 - a) Boiler Ash Landfill
 - b) Modification to Surface Impoundment Closure
- ✓ 3. Permit Modification for Name Change
 - a) Financial Assurance Information
 - b) Issuance of EPA ID# to KII
- ✓ 4. Status of Violations from December, 1988 CEI
 - a) Penalty calculations
 - b) Other considerations
- ✓ 5. Draft Workplan for Groundwater Quality Assessment at the Boiler Ash Landfill
- ✓ 6. Comprehensive Groundwater Monitoring Evaluation (CME) - June 20, 1989
- ✓ 7. Compliance Evaluation Inspection (CEI) - May 18, 1989
 - a) Recommendations
 - b) Drums of Offsite waste from non-company facilities burned in boiler



X. Description of Hazardous Wastes (continued from front)

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

<p>Use additional sheets if necessary.</p>											
1		2		3		4		5		6	
7		8		9		10		11		12	

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

[illegible]

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number 40 CFR Part 261.33 for each chemical substance your installation handles which may be hazardous waste. Use additional sheets if necessary.

31				32	33	34	35	36
U	0	5	1					
37				38	39	40	41	42
43				44	45	46	47	48

D. Listed Infectious Wastes. Enter the four-digit number 40 CFR Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49						50						51						52						53						54					

F. Characteristics of Mammals: Use additional sheets if necessary.

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24)

- ☐ 1. Ignitable (D001) ☐ 2. Corrosive (D002) ☐ 3. Reactive (D003) ☐ 4. Toxic (D000)

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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

A. Satchell

Name and Official Title (type or print)

J. R. Batchelder
Vice President

Date Signed _____

12/17/89

Estimated burden: Public reporting burden for this collection of information is estimated to be 3 hours, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

FORM
1
GENERAL



U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
Consolidated Permits Program
(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F M S D 0 0 7 0 2 7 5 4 3

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X'			SPECIFIC QUESTIONS	MARK 'X'		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions 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 attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP KOPPERS COMPANY INC.

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)
2 CLAYTON J.D. PLANT MANAGER
B. PHONE (area code & no.)
6 0 1 2 2 6 4 5 8 4

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX
3 BOX 160
B. CITY OR TOWN
4 TIE PLANT
C. STATE
MS
D. ZIP CODE
3 8 9 6 0

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
5 TIE PLANT ROAD
B. COUNTY NAME
J R E N A D A
C. CITY OR TOWN
6 TIE PLANT
D. STATE
MS
E. ZIP CODE
3 8 9 6 0
F. COUNTY CODE (if known)



10

11

12

13

14

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST				B. SECOND			
2	4	9	1	(specify)	7		(specify)
WOOD PRESERVING							
C. THIRD				D. FOURTH			
7				(specify)	7		(specify)

VIII. OPERATOR INFORMATION

A. NAME												B. Is the name listed in Item VIII-A also the owner?	
KOPPERS COMPANY INC.												<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other", specify.)													
F - FEDERAL M - PUBLIC (other than federal or state) S - STATE O - OTHER (specify) P - PRIVATE													
D. PHONE (area code & no.)													
A 4 1 2 2 2 7 2 0 0 0													
E. STREET OR P.O. BOX													
7 3 6 SEVENTH AVE.													
F. CITY OR TOWN													
PITTSBURGH													
G. STATE													
PA													
H. ZIP CODE													
1 5 2 1 9													
IX. INDIAN LAND													
Is the facility located on Indian lands?													
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO													

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)												B. PSD (Air Emissions from Proposed Sources)											
9 N												9 P											
C. UIC (Underground Injection of Fluids)												D. OTHER (specify)											
9 U												7 6 - 0 2 4											
E. RCRA (Hazardous Wastes)												F. OTHER (specify)											
9 R												0 9 6 0 - 0 0 0 1 2											
MAP												STATE ZERO DISCHARGE PERMIT											
												STATE AIR PERMIT FOR BOILER											

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

This plant produces pressure-treated wood products using the preservatives coal tar creosote and pentachlorophenol.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that 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.

A. NAME & OFFICIAL TITLE (type or print)		B. SIGNATURE		C. DATE SIGNED	
JAMES BATCHELDER, VICE PRESIDENT		<i>James Batchelder</i>		4/15/57	

COMMENTS FOR OFFICIAL USE ONLY



FORM 3 RCRA ENVIRONMENTAL PROTECTION AGENCY
HAZARDOUS WASTE PERMIT APPLICATION
Consolidated Permits Program
(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER
FMSD007027543

FOR OFFICIAL USE ONLY

APPLICATION APPROVED DATE RECEIVED (yr., mo., & day) COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☒ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

☐ 2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete item 1 above)

☒ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			GALLONS PER HOUR OR LITERS PER HOUR
Disposal:			OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	ACRE-FEET	A	
LITERS	L	TONS PER HOUR	HECTARE-METER	F	
CUBIC YARDS	Y	METRIC TONS PER HOUR	ACRES	S	
CUBIC METERS	C	GALLONS PER HOUR	HECTARES	Q	
GALLONS PER DAY	U	LITERS PER HOUR			

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PRO- CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PRO- CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)				1. AMOUNT	
X-1	S 0 2	600	G	5			
X-2	T 0 3	20	E	6			
1	S 0 4	130,650	G	7			
2				8			
3				9			
4				10			



III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

Note: III.C. Line 1

$$650 \text{ cubic yards} \times 201 \text{ gal/yd}^3 = 130,650 \text{ gallons}$$

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS.....	P	KILOGRAMS.....	K
TONS.....	T	METRIC TONS.....	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

W E B J Z	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEAS- URE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above



Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY																	
W M S D 0 0 7 0 2 7 5 4 3													W DUP																	
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)													D. PROCESSES																	
UNIT NO.	A. EPA HAZARD. WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE				C. UNIT OF MEASURE (enter code)		1. PROCESS CODES (enter)								2. PROCESS DESCRIPTION (if a code is not entered in D(1))											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	K	0	0	1	2500					P							5	0	4											
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														
17																														
18																														
19																														
20																														
21																														
22																														
23																														
24																														
25																														
26																														



IV. DESCRIPTION OF HAZARDOUS WASTES (continued)**E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.**

EPA I.D. NO. (enter from page 1)

F	M	S	D	0	0	7	0	2	7	5	4	3	7/4	6
---	---	---	---	---	---	---	---	---	---	---	---	---	-----	---

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

3	3	4	4	0	4
---	---	---	---	---	---

LONGITUDE (degrees, minutes, & seconds)

8	9	4	7	1	9
---	---	---	---	---	---

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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.

A. NAME (print or type)

JAMES BATCHELDER

B. SIGNATURE



C. DATE SIGNED

11/2/87

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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.

A. NAME (print or type)

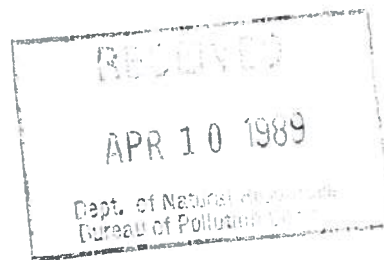
B. SIGNATURE

C. DATE SIGNED



Jill M. Blundon
General Counsel
Thomas Burgunder
Thomas F. Reid
George Carroll
Mary Dombrowski Wright
Billie Schrecker Nolan
William F. Giarla
Babette Magee
James B. Springfield
Real Estate Manager

April 7, 1989



Kaleel Rahaim
Hazardous Waste Division
Mississippi Department of
Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39204

Dear Mr. Rahaim:

I am writing in response to your March 30, 1989 letter to Ms. Jill Blundon, Vice President, General Counsel and Secretary, Beazer Materials and Services, Inc.

As you requested, the following enclosures are attached:

- o A letter from Ms. Jill Blundon indicating current owner/operator status of the facility
- o A revised Part A indicating current owner-operator status of the facility
- o A letter from Mr. James R. Batchelder, Koppers Industries, Inc. (KII), Vice President, requesting that KII be issued a new EPA identification number. Thus, BM&S will retain the current EPA Identification number.
- o Financial Assurance Documentation submitted to the State of Mississippi by BM&S.

Please contact me at 412/227-2705 if you have any questions or need additional information.

Sincerely,

Babette Magee

Babette Magee
Law Clerk

cc: J. R. Batchelder
G. Edwards

DIVISION OF SOLID WASTE

REVIEWED BY KR

DATE 4/10/89

COMMENTS Copy

sent to EPA 4/10/89



1. The first part of the document is a list of the names of the people who were present at the meeting.

2. The second part of the document is a list of the topics that were discussed.

3. The third part of the document is a list of the actions that were taken.

4. The fourth part of the document is a list of the dates when the actions were taken.

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Law Department
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2430 Fax: 412-227-2042



Jill M. Blundon
General Counsel
Thomas Burgunder
Thomas F. Reid
George Carroll
Mary Dombrowski Wright
Billie Schrecker Nolan
William F. Giarla
Babette Magee
James B. Springfield
Real Estate Manager

April 7, 1989

Mr. Kaleel Rahaim
Mississippi Department of
Natural Resources
Bureau of Pollution Control
2380 Highway 80 W
Jackson, Mississippi 39204

Re: Koppers Industries, Inc.
Grenada, Mississippi Facility

Dear Mr. Rahaim:

Please be advised that on December 28, 1988, Koppers Industries, Inc. (KII) purchased the assets of the former Koppers Company, Inc. wood treating facility located at Tie Plant Road, Tie Plant, Mississippi 38960. On January 26, 1989, the name of Koppers Company, Inc. was changed to Beazer Materials and Services, Inc. (BM&S).

Under the terms of the sale, BM&S has agreed to remain the "operator" of the surface impoundment pending closure and, if necessary, any post-closure activities. BM&S also has agreed to retain responsibility for any financial assurance required in connection therewith. The term "operator" is not intended to imply that these units are or will be operating units, but is only used to distinguish that BM&S is responsible for closure of these units, which are located on the property owned by KII.

Enclosed is a revised Part A, a Notification of Hazardous Waste Activity Form, and Financial Assurance Documentation. If you have any questions concerning this matter, please call Babette Magee of BM&S at 412/227-2705.

Very truly yours,

Jill M. Blundon
Vice President,
General Counsel and Secretary

cc: J. R. Batchelder
G. Edwards
B. Magee



IV. DESCRIPTION OF HAZARDOUS WASTES (continued)**E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.**

N/A

EPA I.D. NO. (enter from page 1)

F	M	D	S	0	0	7	0	2	7	5	4	3	6
---	---	---	---	---	---	---	---	---	---	---	---	---	---

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

LONGITUDE (degrees, minutes, & seconds)

3	3	4	4	0	4
---	---	---	---	---	---

8	9	4	7	1	9
---	---	---	---	---	---

VIII. FACILITY OWNER

- ☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code & no.)

Koppers Industries, Inc.

4	1	2	2	2	7	2	0	0	0
---	---	---	---	---	---	---	---	---	---

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

436 Seventh Avenue

Pittsburgh

PA

1	5	2	1	9
---	---	---	---	---

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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.

A. NAME (print or type)

J. R. Batchelder
Vice President

B. SIGNATURE

C. DATE SIGNED

4/7/89

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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.

A. NAME (print or type)

Jill M. Blundon, Vice President,
Secretary, and General Counsel

B. SIGNATURE

C. DATE SIGNED

4/7/89

EPA I.D. NUMBER (enter from page 1)													FOR OFFICIAL USE ONLY													
W M S D C C 7 0 2 7 5 4 3 1													W DUP 2 DUP													
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)																										
LINE NO.	A. EPA HAZARD. WASTENO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES																						
				1. PROCESS CODES (enter)																2. PROCESS DESCRIPTION (if a code is not entered in D(1))						
1	K 0 0 1	UNK - only wastes generated will be associated with closure activities																								Closure of Surface Impoundment
2	U 0 5 1																									
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										

EPA GENERAL INFORMATION (Read the "General Instructions" before starting.)		EPA ID NUMBER	
<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;">PLEASE PLACE LABEL IN THIS SPACE</div>		GENERAL INSTRUCTIONS If a preprinted label has been provided, fill it in the designated space. Review the information carefully; if any of it is incorrect, correct through it and enter the correct data in the appropriate fill-in area below. Also, if any the preprinted data is absent, the area to the left of the label space (list the information that should appear), please provide it in the proper fill-in area(s) below. If the label complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete items if no label has been provided. Refer the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	
II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.			
SPECIFIC QUESTIONS		MARK 'X'	
		YES	NO
		FORM ATTACHED	
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions 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 attainment area? (FORM 5)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
III. NAME OF FACILITY 1 SKIP KOPPERS INDUSTRIES INC			
IV. FACILITY CONTACT A. NAME & TITLE (last, first, & title) 2 CLAYTON JD PLANT MANAGER B. PHONE (area code & no.) 6 0 1 2 2 6 4 5 8 4			
V. FACILITY MAILING ADDRESS A. STREET OR P.O. BOX 3 BOX 160 B. CITY OR TOWN 4 TIE PLANT C. STATE MS D. ZIP CODE 3 8 9 6 0			
VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 5 TIE PLANT ROAD B. COUNTY NAME GRENADA C. CITY OR TOWN 6 TIE PLANT D. STATE MS E. ZIP CODE 3 8 9 6 0 F. COUNTY CODE (if known)			

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST				B. SECOND			
7	2	4	9	1	(specify)	7	(specify)
Wood Preserving				N/A			
C. THIRD				D. FOURTH			
7	(specify)	N/A		7	(specify)	N/A	

VIII. OPERATOR INFORMATION

A. NAME															B. Is the name listed in Item VIII-A also the owner?				
BEAZER MATERIALS & SERVICES INC															<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)															D. PHONE (area code & no.)				
F = FEDERAL					M = PUBLIC (other than federal or state)					P (specify)					4 1 2 2 2 7 2 0 0 0				
S = STATE					O = OTHER (specify)														
P = PRIVATE																			
E. STREET OR P.O. BOX																			
4 3 6 SEVENTH AVENUE																			
F. CITY OR TOWN										G. STATE		H. ZIP CODE			IX. INDIAN LAND				
P I T T S B U R G H										P A		1 5 2 1 9			Is the facility located on Indian lands?				
															<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)										D. PSD (Air Emissions from Proposed Sources)									
N/A										N/A									
B. UIC (Underground Injection of Fluids)										E. OTHER (specify)									
N/A										0 9 6 0 - 0 0 0 1 2									
										(specify) Air permit for boiler									
C. RCRA (Hazardous Wastes)										E. OTHER (specify)									
I N T E R I M S T A T U S										7 6 - 0 2 4									
										(specify) State zero discharge permit									

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

This application is submitted for an existing surface impoundment. There will be no industrial activity for Beazer Materials & Services. The impoundment is presently out of service and the only future activities anticipated for the surface impoundment will be related to closure of the unit.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that 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.

A. NAME & OFFICIAL TITLE (type or print)		B. SIGNATURE		C. DATE SIGNED	
Jill M. Blundon Vice President, Secretary and General Counsel				4/7/89	

COMMENTS FOR OFFICIAL USE ONLY

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

FOR OFFICIAL USE ONLY

II. FIRST OR REVISED APPLICATION

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

B. REVISED APPLICATION (place an "X" below and complete Item I above)

III. PROCESSES – CODES AND DESIGN CAPACITIES

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

- EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below):** A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

EPA Form 3510-3 (6-80)

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code 104) FOR EACH PROCESS ENTERED HERE
INCLUDE DESIGN CAPACITY.

N/A

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER** — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY** — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE** — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE **CODE**
POUNDS P
TONS T

METRIC UNIT OF MEASURE **CODE**
KILOGRAMS K
METRIC TONS M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZ. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above



Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

Comments

[illegible]

Installation's EPA ID Number													Approved		Date Received (yr. mo. day)		
C											T/A	C					
F												1					

B	E	A	Z	E	R			M	A	T	E	R	I	A	L	S	&			S	E	R	V	I	C	E	S			I	N	C
---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	---	---	--	--	---	---	---

Street or P.O. Box[illegible]

City or Town															State		ZIP Code						
C	T	I	E	P	L	A	N	T									M	S	3	8	9	6	0

Street or Route Number

[illegible]

City or Town																State		ZIP Code					
C 6	T	I	E	P	L	A	N	T									M	S	3	8	9	6	0

Name and Title (last, first, and job title)

C	C	L	A	Y	T	O	N		J	D		P	L	T		M	G	R		6	0	1	2	2	6	4	5	8	4
---	---	---	---	---	---	---	---	--	---	---	--	---	---	---	--	---	---	---	--	---	---	---	---	---	---	---	---	---	---

A. Name of Installation's Legal Owner

C															3. Type of Ownership (enter code)										
R	K	O	P	P	E	R	S			I	N	D	U	S	T	R	I	E	S			I	N	C	P

VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity		B. Used Oil Fuel Activities	
<input checked="" type="checkbox"/> 1a. Generator	<input type="checkbox"/> 1b. Less than 1,000 kg/mo.	<input type="checkbox"/> 6. Off-Specification Used Oil Fuel (enter "X" and mark appropriate boxes below)	
<input type="checkbox"/> 2. Transporter		<input type="checkbox"/> a. Generator Marketing to Burner	
<input type="checkbox"/> 3. Treater/Storer/Disposer		<input type="checkbox"/> b. Other Marketer	
<input type="checkbox"/> 4. Underground Injection		<input type="checkbox"/> c. Burner	
<input type="checkbox"/> 5. Market or Burn Hazardous Waste Fuel (enter "X" and mark appropriate boxes below)		<input type="checkbox"/> 7. Specification Used Oil Fuel Marketer (or On site Burner) Who First Claims the Oil Meets the Specification	
<input type="checkbox"/> a. Generator Marketing to Burner			
<input type="checkbox"/> b. Other Marketer			
<input type="checkbox"/> c. Burner			

VII. Waste Fuel Burning: Type of Combustion Device (enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)

☐ A. Utility Boiler ☐ B. Industrial Boiler ☐ C. Industrial Furnace

VIII. Mode of Transportation (transporters only — enter 'X' in the appropriate box(es))

☐ A. Air ☐ B. Rail ☐ C. Highway ☐ D. Water ☐ E. Other (specify) _____

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

☐ A. First Notification
 ☒ B. Subsequent Notification (complete item C)

C. Installation's EPA ID Number											
M	S	D	0	0	7	0	2	7	5	4	3

ID — For Official Use Only													
C												T/A	C
W													1

X. Description of Hazardous Wastes (continued from front)

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
7	8	9	10	11	12

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
K 0 0 1					
19	20	21	22	23	24
25	26	27	28	29	30

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
U 0 5 1	-				
37	38	39	40	41	42
43	44	45	46	47	48

D. Listed Infectious Wastes. Enter the four-digit number from 40 CFR Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.21 — 261.24)

☐ 1. Ignitable
(D001)

☐ 2. Corrosive
(D002)

☐ 3. Reactive
(D003)

☐ 4. Toxic
(D000)

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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

Jill M. Blundon

Name and Official Title (type or print)

Jill M. Blundon
Vice President, Secretary, and

Date Signed

4/7/89



Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001
FAX: (412) 227-2022

April 7, 1989

CERTIFIED MAIL
RETURN RECEIPT
REQUESTED

Mr. Kaleel Rahaim
Mississippi Department of
Natural Resources
Bureau of Pollution Control
2380 Highway 80W
Jackson, MS 39204

Re: Grenada, MS Facility

Dear Mr. Rahaim:

Please be advised that on December 28, 1988, Koppers Industries, Inc. (KII) purchased the assets of the former Koppers Company, Inc. wood treating facility owned by Beazer Materials and Services, Inc. located at Tie Plant Road, Tie Plant, Mississippi 38960. Terms of the sales agreement provide for Beazer Materials and Services, Inc. (BM&S) to retain "operator" status for the RCRA Surface Impoundment until closure of this unit is complete. The term "operator" is not intended to imply that this unit is or will be an operating unit. It is only used to distinguish between BM&S as operator of the RCRA unit until closure and KII as owner and operator of the wood treating plant. BM&S has also agreed to provide the required financial assurance for the unit until final closure is certified and approved.

KII, as owner and operator of the wood treating plant, is submitting a Notification of Hazardous Waste Activity and requests we be issued a separate EPA ID number. KII will operate as a generator only and will not treat, store, dispose, or transport hazardous waste. KII will also not use the BM&S surface impoundment.

If additional information is required, please contact Gary Edwards of Keystone Environmental Resources at (412) 825-9615.

Sincerely,


J. R. Batchelder
Vice President

Enclosures

cc: B. Magee
G. Edwards
R. Clayton
J. Scarbrough (US EPA IV)

United States Environmental Protection Agency
Washington, DC 20460
Notification of Hazardous Waste Activity

Please refer to the Instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

For Official Use Only

Comments

C

C

Installation's EPA ID Number

Approved

Date Received

(yr.

mo.

day)

C

T/A C

F

1

I. Name of Installation

K

O

P

P

E

R

S

I

N

D

U

S

T

R

I

E

S

I

N

C

II. Installation Mailing Address

Street or P.O. Box

C

3

P

O

B

O

X

1

6

0

City or Town

State

ZIP Code

C

4

T

I

E

P

L

A

N

T

M

S

3

8

9

6

0

III. Location of Installation

Street or Route Number

C

6

T

I

E

P

L

A

N

T

R

O

A

D

City or Town

State

ZIP Code

C

6

T

I

E

P

L

A

N

T

M

S

3

8

9

6

0

IV. Installation Contact

Name and Title (last, first, and job title)

Phone Number (area code and number)

C

2

C

L

A

Y

T

O

N

J

D

P

L

T

M

G

R

6

0

1

2

2

6

4

5

8

4

V. Ownership

A. Name of Installation's Legal Owner

B. Type of Ownership (enter code)

C

R

K

O

P

P

E

R

S

I

N

D

U

S

T

R

I

E

S

I

N

C

P

VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)**A. Hazardous Waste Activity****B. Used Oil Fuel Activities**☒

1a. Generator

☐

1b. Less than 1,000 kg/mo.

☐

2. Transporter

☐

3. Treater/Storer/Disposer

☐

4. Underground Injection

☐

5. Market or Burn Hazardous Waste Fuel

(enter 'X' and mark appropriate boxes below)

☐

a. Generator Marketing to Burner

☐

b. Other Marketer

☐

c. Burner

☐

6. Off-Specification Used Oil Fuel

(enter 'X' and mark appropriate boxes below)

☐

a. Generator Marketing to Burner

☐

b. Other Marketer

☐

c. Burner

☐7. Specification Used Oil Fuel Marketer (or On site Burner)
Who First Claims the Oil Meets the Specification**VII. Waste Fuel Burning: Type of Combustion Device (enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)**☐ A. Utility Boiler☐ B. Industrial Boiler☐ C. Industrial Furnace**VIII. Mode of Transportation (transporters only — enter 'X' in the appropriate box(es))**☐

A. Air

☐

B. Rail

☐

C. Highway

☐

D. Water

☐

E. Other (specify)

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

☒

A. First Notification

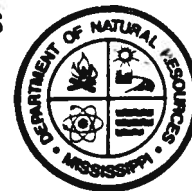
☐

B. Subsequent Notification (complete item C)

C. Installation's EPA ID Number



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



June 27, 1989

FILE COPY

CERTIFIED MAIL NO. P 962 284 991

Ms. Jill M. Blundon
Vice President, Secretary & General Counsel
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Ms. Blundon:

In order to settle certain environmental issues regarding Beazer Materials and Services, Inc. and Koppers Industries, Inc., you have agreed to the conditions of Administrative Order No. 1598-89, which is enclosed.

If you have questions about this matter, please contact Mr. Kaleel Rahaim at telephone #601/961-5171.

Sincerely,

Charles H. Chisolm
Bureau Director

CHC:mh

Enclosure

cc: Mr. Matthew C. Plautz, Beazer Materials & Services, Inc., Pittsburgh,
PA (w/enclosure)

Mr. James R. Batchelder, Koppers Industries, Inc., Pittsburgh, PA
(w/enclosure)

DIVISION OF SOLID WASTE

REVIEWED BY KL

DATE 5/30/89

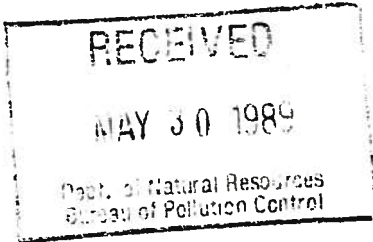
COMMENTS Copy sent to

LPH 5/30/89

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



*Compliance
File*



May 26, 1989

FEDERAL EXPRESS

Mr. Kaleel Rahaim
Mississippi Department of
Natural Resources
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

Re: Part A Amendment;
Financial Assurance Documents
Koppers Industries, Inc. Facility
Grenada, Mississippi
MSD 007027543

Dear Mr. Rahaim:

The following constitutes our response to your letter dated May 3, 1989 requesting certain RCRA related documents. This letter was received by Beazer Materials and Services, Inc. (BM&S) on May 8, 1989.

Revised Part A, Section II.B - BM&S has revised Section II.B of the RCRA part A permit application. The revised page 1 is attached.

Financial Assurance Documents - We are currently in the process of amending the financial assurance documents for the Grenada facility. Current cost estimates include:

- o Closure - \$ 878,128
- o Post-Closure - \$1,614,304

The post-closure cost estimate for the boiler ash landfarm presented in your May 3, 1989 letter has been further adjusted by multiplying the inflation factor for 1988. BM&S utilizes a financial test (Alternative II) to demonstrate liability coverage and financial assurance. The above adjustments do not impact our ability to meet the financial test.

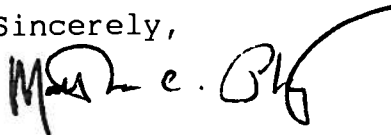
The documents have been forwarded to BM&S senior management for review and approval and signature by the Chief Financial Officer. We anticipate that these documents can be forwarded to your offices by June 16, 1989.

Mr. Kaleel Rahaim
May 26, 1989
2.

Operator Status of Boiler Ash Landfarm - As between the parties (i.e. Koppers Industries, Inc. and BM&S), BM&S has assumed liability for closure and post-closure activities for the boiler ash landfarm area. The post-closure permit will be issued to BM&S. A Groundwater Quality Assessment Plan (GWQAP) for the boiler ash landfarm was submitted to MSDNR on May 18, 1989. We are aware that additional studies incorporated in the GWQAP will be required for issuance of the post-closure care permit. As you indicated in our meeting on May 24, 1989, the closure plan has been approved and we are currently in the planning stages to initiate final closure activities; pending written approval.

We trust that this submittal satisfies your requirements at this time. Please call if you have any questions.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr
Enclosure

cc: R. Hamilton
B. Nolan
R. Vorpe
R. Clayton
J. Batchelder

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

☐ 2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR. MO. DAY

8 04 01

B. REVISED APPLICATION (place an "X" below and complete Item I above)

☒ 1. FACILITY HAS INTERIM STATUS

☒ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.

2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
Disposal:					
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PRO- CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PRO- CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY	FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)				1. AMOUNT	
		2. UNIT OF MEAS- URE (enter code)				2. UNIT OF MEAS- URE (enter code)	
X-1	S 0 2	600		5			
X-2	T 0 3	20		6			
1	S 0 4	19,545		7			
2				8			
3				9			
4				10			

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR DESCRIBING OTHER PROCESSES (code "T0" FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

N/A

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE
POUNDS	P
TONS	T

METRIC UNIT OF MEASURE	CODE
KILOGRAMS	K
METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

RECEIVED

JUN 26 1989

BEFORE **THE** MISSISSIPPI COMMISSION
ON NATURAL RESOURCES

DEPT. OF NATURAL RESOURCES
BUREAU OF POLLUTION CONTROL

IN THE MATTER OF:

MISSISSIPPI COMMISSION ON
NATURAL RESOURCES

COMPLAINANT

1598 89

VS.

ORDER NO. _____

BEAZER MATERIALS AND SERVICES, INC.
MSD007027543

AND

KOPPERS INDUSTRIES, INC.
GRENADA, MISSISSIPPI
MSD985967066

RESPONDENTS

AGREED ORDER

COMES NOW THE Mississippi Commission on Natural Resources, Complainant, and Beazer Materials and Services, Inc. (Formerly Koppers Company, Inc.), and Koppers Industries, Inc. successor in interest to Beazer Materials and Services, Inc., Respondents in the above referenced administrative action and would show forth as follows:

1. On April 18, 1989, Respondents were contacted by Complainant and notified of Complainant's intent to cite Respondents for a certain violation and/or violations of requirements set forth in Mississippi Hazardous Waste Management Regulations (MHWMR) Parts 262, 264, 265, and 268, and Mississippi Hazardous Waste Management Permit (MHWMP) No. 88-543-01; said apparent violations being as follows:

- (A) MHWMR 262.34 - The facility stored six drums of U051 Hazardous Waste at its less than 90 day container/drum storage building for longer than 90 days.
- (B) MHWMP No. 88-543-01 - The facility failed to install a replacement well for Well No. R-1, which was constructed improperly , within the time-frame specified in the Mississippi Hazardous Waste Management Permit (MHWMP) No. 88-543-01.
- (C) MHWMR 265.302 - The facility failed to provide adequate run-on, run-off and wind dispersal control for the boiler ash landfill.
- (D) MHWMR 265.93 - The facility failed to properly notify the Executive Director of the existence of groundwater contamination at the boiler ash landfill and surface impoundment.
- (E) MHWMR Part 262 Subparts A, B, and C - The facility transported ash, derived from the burning of K001 hazardous waste in the facility's boiler, to the Grenada County landfill which did not have an EPA identification number and was not permitted to dispose of hazardous waste.

(F) MHWMR Part 268 - The facility did not have any records or certifications that would have shown that the two shipments of waste (identified by Manifest Document Nos. 167214 and 00182) received on site after August 8, 1988, the effective date of the land disposal treatment standards for K001 hazardous waste, would have met the land disposal treatment standard for K001 prior to disposal as required.

2. On May 18, 1989, the Bureau of Pollution Control conducted a Compliance Evaluation Inspection and found that actions had been taken to bring the facility into compliance with respect to the violations cited in A, B, C, and D of paragraph 1 of this Order. A record review was conducted as part of that inspection and documents supported compliance.

3. Complainant and Respondents do hereby agree, in lieu of a formal filing of complaint by Complainant, to enter into this Agreed Order wherein Beazer Materials and Services, Inc. agrees to pay on behalf of both Respondents and Complainant agrees to accept on behalf of both Respondents, the sum of \$41,387 as a full and complete settlement thereof, said sum to be payable as follows:

To be paid in its entirety on or before August 1, 1989,
and,

4. Respondents further understand and agree that, as part of the above referenced settlement, Respondents shall manage within the State of Mississippi any and all oil/water separator sludge, upon disposal, as K001 hazardous waste in compliance with this Order.

and,

5. Respondents further understand and agree that, as part of the above referenced settlement, Beazer Materials and Services, Inc. on behalf of both Respondents shall perform an engineering assessment of the impacts, if any, from boiler ash (fly ash and cinders) generated at the Grenada facility and placed at the Grenada County Landfill from May 7, 1987 to the present (hereinafter referred to as "the Boiler Ash"). This assessment shall consist of the following:

- submitted
10/17/89
- did not include
EP Toxicity metals
and data
10/20/89*
- A. A physical and chemical characterization of the Boiler Ash which will consist of a review of (i) historical analytical data on boiler ash (fly ash and cinders) samples, and, (ii) analytical data on TCLP leachate and total waste constituents. The principal constituents of interest are EP Toxicity metals (by TCLP extraction procedure), K001 constituents and 2, 3, 7, 8-TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin).
 - B. An estimate of the volume of Boiler Ash taken to the Grenada County Landfill.

- C. A review of available literature to determine (i) regional geology and hydrology at the Grenada County Landfill, (ii) groundwater usage (public and private wells) within a three mile radius of the Grenada County Landfill consisting of, where available, the design pumping rates, the aquifer of withdrawal, and the depth of well screens, and (iii) surface water pathways emanating from the Grenada County Landfill.
- D. A risk-based engineering assessment of the impacts, if any, of the Boiler Ash based upon the information obtained in Paragraphs A through C above.
- E. A written report of the findings of Paragraphs A through D to the Commission within 120 days of the date of this Order.

6. Respondents understand and agree that they are fully entitled to an evidentiary hearing before the Commission on Natural Resources pursuant to Sections 49-17-31 and 49-17-41 of the Mississippi Code Annotated, and that they agree to the above referenced settlement only after having been fully informed of their right to said hearing and having waived their right to such a hearing; and

7. Respondents understand and agree that this settlement agreement in no way is an admission of liability on their part, and is entered into for the sole purpose of causing a swift resolution of this administrative matter.

SO ORDERED, this the 27th day of June, 1989.

MISSISSIPPI COMMISSION ON
NATURAL RESOURCES

BY: J. J. Palmer, Jr.
J. J. PALMER, JR.
EXECUTIVE DIRECTOR

AGREED to this the 23rd day of JUNE, 1989.

Jill M. Blundon
RESPONDENT
BEAZER MATERIALS AND SERVICES, INC.
JILL M. BLUNDON
VICE PRESIDENT, SECRETARY AND
GENERAL COUNSEL

James R. Batchelder
RESPONDENT
KOPPERS INDUSTRIES, INC.
JAMES R. BATCHELDER
VICE PRESIDENT AND MANAGER,
TECHNICAL AND ENVIRONMENTAL SERVICES

Revision: 0

Date: July 18, 1989

INSPECTION HEALTH AND SAFETY CHECKLIST

ILITY NAME: Kaplan, Andrew J. EPA ID: MSD007027593
RESS: P.O. Box 100, 7th Fl., MS 38960 PHONE: (601) 226-4589

PERSONNEL LOG

IE/SIGNATURE	DATE OF LAST SAFETY TRAINING/ FIT TEST	DATE CHECKLIST PREPARED/ REVIEWED	** CHECKLIST MODIFIED?	SITE VISIT DATE(S)	INSPECTION TYPE (CME, CEI, RFA, ETC.)	SUPERVISOR'S SIGNATURE OF APPROVAL AND DATE
<u>William J. H. 7/87</u>	<u>7/87</u>	<u>2/21/90</u>		<u>2/22/90</u>	<u>CEI</u>	<u>David C. R. 12-10-90</u>
<u>Jul 7/89</u>	<u>6/7/89</u>	<u>12/10/90</u>	<u>YES</u>	<u>12/11/90</u>	<u>CME</u>	
<u>2/91</u>	<u>10/91</u>	<u>11/91</u>	<u>NO</u>	<u>10/2/91</u>	<u>CEI</u>	
<u>D. Perack</u>	<u>3/94</u>	<u>3/94</u>	<u>—</u>		<u>CME</u>	

ace an asterisk (*) before the name of the of theMDEQ person who will be responsible for protection and safety of all MDEQ personnel during the site visit.

Revision: 0

Date: July 18, 19

GENERAL INFORMATION

FACILITY NAME: Koppers Industries Inc. CONTACT: J.D. Clayton

DIRECTIONS TO FACILITY: (Attach map if possible)

I-55 North to Duckhill exit. Turn right on Hwy 409. at
the end of 409, take a left onto Hwy 51. Do approx. 6 miles.
Heatcraft will be on your right. Take the next right = 3/4 miles past
 SPECIAL ACCESS REQUIREMENTS: Heatcraft. Koppers is at end of this road.

EMERGENCY INFORMATION

AMBULANCE:	TELEPHONE:
HOSPITAL: <u>Arenawake Lake Medical Center</u>	TELEPHONE: <u>226-8111</u>
POLICE: <u>Arenawake</u>	TELEPHONE: <u>226-1211</u>
FIRE DEPARTMENT: <u>Arenawake</u>	TELEPHONE: <u>911</u>
SITE/FIRE EVACUATION SIGNALS: <u>Alarm Sirens - continuous alarm</u>	

INFORMATION SOURCES

PART B:	EPA :	CONTINGENCY PLAN:
ESD:	RFA:	CLOSURE PLAN:
SWMU QUESTIONNAIRE:	PART A:	OTHER:

PERMITS

HAZARDOUS WASTE: <u>Surface Imp</u>	STATUS:	
WATER: <u>State zero discharge</u>	AIR: <u>for Boiler</u>	OTHER: <u>HSWA</u>

SUMMARY OF REGULATED UNITS AND SWMUS: (Indicate number of units)

LANDFILLS: <u>1 certain status closing</u>	INCINERATORS: <u>0</u>	STORAGE AREAS:
WASTE PILES: <u>0</u>	OTHER TREATMENT:	OTHER:
SURFACE IMPROVEMENTS: <u>1 closed</u>	TANK FARMS:	SWMUS: <u>13 incl. 51</u> <u>and 2ALF</u>

FACILITY PROCESS DESCRIPTION:

The plant produces pressure-treated wood
products using the preservatives copper azobenzene
and pentachlorophenol.

Revision: 0

Date: July 18,
1989

PREVIOUS RELEASES/ACCIDENTS OR COMPLAINTS:

(Corrected? YES/NO)

AIR _____

SOIL _____

SURFACE WATER _____

INDUSTRIAL ACCIDENTS _____

COMPLAINTS _____

HEALTH AND SAFETY HAZARDS

Briefly indicate hazard type. Attach additional pages if necessary.

EXPLOSION/OXYGEN DEFICIENCY HAZARDS:

NONE (Circle if applicable)

RADIATION HAZARDS:

NONE (Circle if applicable)

TOXIC HAZARDS:

NONE (Circle if applicable)

Briefly summarize chemicals handled on site: Add attachment if necessary.
Indicate if these exist in a controlled state. Refer to Part A Application if
list is extensive.

UNUSUAL PHYSICAL HAZARDS:

NONE (Circle if applicable)

UNUSUAL BIOLOGICAL HAZARDS:

NONE (Circle if applicable)

CHECK IF PROBLEM EXPECTED: NOISE _____ HEAT STRESS _____ COLD STRESS _____

OVERALL HAZARD RATING: (CIRCLE ONE)

VERY HIGH
(LEVEL A)
(ASSISTANCE NECESSARY)

HIGH
(LEVEL B)
(ASSISTANCE NECESSARY)

MEDIUM
(LEVEL C)
(MONITORING REQUIRED)

LOW
(LEVEL D)

Revision: 0

Date: July 18, 19

PERSONNEL PROTECTIVE EQUIPMENT

(List equipment needed in addition to safety glasses, hard hat, and steel toed boots)

	Check if Needed	Needed throughout entire facility? (If no, list area(s) or task(s) where need
<u>HEAD AND EYE:</u>		
FACE SHIELD	_____	_____
GOGGLES	_____	_____
NOISE PROTECTION	_____	_____
OTHER	_____	_____
<u>RESPIRATORY:</u>		
		TYPE
APR	_____	_____
APR CARTRIDGE	_____	_____
ESCAPE MASK	_____	_____
OTHER	_____	_____
<u>CLOTHING:</u>		
TYVEK COVERALL	_____	_____
SARANEX COVERALL	_____	_____
COTTON COVERALL	_____	_____
SPLASH SUIT	_____	_____
OVERBOOTS	_____	_____
RAIN GEAR	_____	_____
OTHER	_____	_____
<u>MISCELLANEOUS:</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
<u>LEVEL A OR B NEEDED?</u>		
LEVEL A	_____	_____
LEVEL B	_____	_____
<u>AIR MONITORING TYPE</u>		
TOXIC	_____	_____
EXPLOSIVE/OXYGEN	_____	_____
RADIATION	_____	_____
NONE	_____	_____
<u>Contractor or EPA ?</u>		

<u>Conducted by:</u>		
FACILITY _____		
ESD _____		
CONTRACTOR _____		
OTHER _____		
<u>Areas/tasks where need</u>		

RCRA INSPECTION REPORT

1. Inspector and Author of Report

Kaleel Rahaim
Environmental Engineer
Bureau of Pollution Control

2. Facility Information

Koppers Company, Inc. (Beazer Materials & Services)
P. O. Box 160
Tie Plant, Mississippi 38960

3. Responsible Company Official

Mr. J. D. "Rock" Clayton, Plant Manager, Koppers Industries,
Inc. (KII)

4. Inspection Participants

Mr. J. D. "Rock" Clayton, KII
Mr. Gary McLelland, KII
Mr. David Bockelmann, BPC
Mr. Kaleel Rahaim, BPC

5. Date and Time of Inspections

May 18, 1989 - 9:30 a.m. CDST

6. Applicable Regulations

Mississippi Hazardous Waste Management Regulations (MHWMR) Parts
262, 264, 265, and 268

Mississippi Hazardous Waste Management Permit No. 88-543-01

7. Purpose of Inspection

This was a Compliance Evaluation Inspection (CEI) to determine the facility's overall compliance with regulations pertaining to hazardous waste management under permit and interim status. Units covered dealt with closure, post-closure, and operation situations.

8. Facility Description

Koppers Company, Inc. was acquired by Beazer Materials and Services, Inc. on December 28, 1988. Beazer Materials and Services, Inc. (BMS) sold the division, of which the Grenada, Mississippi plant was a part. This division was sold to a management group to form Koppers Industries, Inc. (KII).

Section C - Contingency Plan and Emergency Procedures

1. Is a contingency plan maintained at the facility? ☒ Yes ☐ No ☐ NA
(264.53) (265.53)
- a. If yes, is it a revised SPCC Plan? ☒ Yes ☐ No ☐ NA
- b. Does contingency plan include: (264.52) (265.52)
1. Arrangements with local emergency response organizations? ☒ Yes ☐ No ☐ NA
 2. Emergency coordinator's names, phone numbers and addresses? ☒ Yes ☐ No ☐ NA
 3. List of all emergency equipment at facility and descriptions of equipment? ☒ Yes ☐ No ☐ NA
 4. Evacuation plan for facility personnel? ☒ Yes ☐ No ☐ NA
2. Is there an emergency coordinator on site or on call at all times? (264.55) (265.55) ☒ Yes ☐ No ☐ NA

Section D - Manifest System, Recordkeeping, and Reporting

1. Does facility receive waste from offsite? (264.71) ☐ Yes ☒ No ☐ NA
(265.71) *Receives bottom crosscut from work TANKS - nonhazardous as of this date*
- a. If yes, does the owner/operator retain copies of all manifests? ☐ Yes ☐ No ☒ NA
1. Are the manifests signed and dated and returned to the generator? ☐ Yes ☐ No ☒ NA
 2. Is a signed copy given to the transporter? ☐ Yes ☐ No ☒ NA
2. Does the facility receive any waste from a rail or water (bulk shipment) transporter? (264.71) (265.71) ☐ Yes ☐ No ☒ NA
- a. If yes, is it accompanied by a shipping paper? ☐ Yes ☐ No ☒ NA
1. Does the owner/operator sign and date the shipping paper and return a copy to the generator? ☐ Yes ☐ No ☒ NA
 2. Is a signed copy given to the transporter? ☐ Yes ☐ No ☒ NA
3. Has the owner/operator received any shipments of waste that were inconsistent with the manifest (manifest discrepancies)? (264.72) (265.72) ☐ Yes ☒ No ☐ NA
- a. If yes, has he attempted to reconcile the discrepancy with the generator and transporter? ☐ Yes ☐ No ☒ NA
1. If no, has Regional Administrator been notified? ☐ Yes ☐ No ☒ NA

All records appeared to be complete and up to date. Notation was made that inspection records showed dates but no time of inspection.

BMS will continue to use the financial test as a means of financial and liability assurance. Currently BMS is reworking the financial test based upon a deficiency cited by the Bureau of Pollution Control on Closure/Post-Closure amounts. Current figures were received and deemed adequate subsequent to the inspection.

Groundwater monitoring and analyses records were complete and up to date at the facility. Contamination of the groundwater has been reported at both the surface impoundment and boiler ash landfill. A groundwater quality assessment plan is in process at these units. Sampling and analysis of groundwater continues on a quarterly basis.

Following the record review, a visual site inspection was conducted. The site inspection included the less than 90 day container storage area, the closing surface impoundment and the boiler ash landfill.

The less than 90 day container/drum storage area contained only non-hazardous waste at the time of inspection. All drums in the storage area were segregated by waste type and source. All were labeled as non-hazardous.

The closing surface impoundment had standing rainwater at the bottom. This water will be analyzed and discharged to the POTW. Final closure is scheduled to begin shortly. The fence surrounding the impoundment appeared intact and signs were posted at appropriate approaches.

The replacement well for Well No. R-1 has been completed and will be sampled at the next sampling event.

The security fence around the boiler ash landfill was intact with no sign of deterioration or visible gaps. Plastic covering over the surface of the landfill was intact and provided complete coverage. Signs were present and visible from every approach.

10. Conclusions

The only apparent violation was:

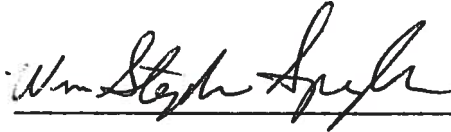
MHWMR 264.15(d) - Times of inspections must be noted on the inspection reports.

11. Signed



Inspector

12. Approval



cc: Mr. James H. Scarbrough, EPA

Part 1

General Site Information

Facility Name: Koppers (K+I)
Address: Tire Plant
I.D. Number: MSD 007027543
Contact: Mr J. D. "Rock" Claydon
Title: Plant Manager
Phone Number: 601-226-4584

Type of Ownership:

☐ Federal ☐ State ☐ County ☐ Municipal ☒ Private

Facility Status:

☒ Generator ☐ Transporter ☐ Treatment ☒ Storage ☐ Disposal

Regulatory Status:

☐ Interim Status ☐ Part B Submitted
☒ Permitted ☐ Part B in Preparation

Principal Inspector Name: Thad Hope Title: Environmental Sci IV
Organization: MS OPC Phone Number: _____

Inspection Participants:

<u>Name</u>	<u>Title</u>	<u>Representing</u>
<u>Thad Hope</u>	<u>Envir Sci IV</u>	<u>MS OPC</u>
<u>Erny McLELLAN</u>	<u>General Yard Foreman</u>	<u>Koppers</u>

- b. 1. Artificial or natural barrier around facility (e.g., fence or fence and cliff)? ☐ Yes ☒ No ☐ NA

Describe _____

AND

2. Means to control entry through entrances (e.g., attendant, television monitors, locked entrance, controlled roadway access)? ☐ Yes ☒ No ☐ NA

Describe _____

General Inspection Requirements (264.15) (265.15)

5. Does the owner/operator maintain a written schedule at the facility for inspecting:

- a. Monitoring equipment? ☒ Yes ☐ No ☐ NA
b. Safety and emergency equipment? ☒ Yes ☐ No ☐ NA
c. Security devices: ☐ Yes ☒ No ☐ NA
d. Operating and structural equipment? ☒ Yes ☐ No ☐ NA
e. Types of problems of equipment:

1. Malfunction ☒ Yes ☐ No ☐ NA
2. Operator error ☒ Yes ☐ No ☐ NA
3. Discharges ☒ Yes ☐ No ☐ NA

6. Does the owner/operator maintain an inspection log? ☒ Yes ☐ No ☐ NA

- a. If yes, does it include:

1. Date and time of inspection? ☒ Yes ☐ No ☐ NA
2. Name of inspector? ☒ Yes ☐ No ☐ NA
3. Notation of observations? ☒ Yes ☐ No ☐ NA
4. Date and nature of repairs or remedial action? ☐ Yes ☒ No ☐ NA
5. Identification of potential problems? ☐ Yes ☒ No ☐ NA

- b. Are there any malfunctions or other deficiencies not corrected? (Use narrative explanation sheet.) ☐ Yes ☒ No ☐ NA ?

- c. Are records kept a minimum of three years? ☐ Yes ☒ No ☐ NA

Personnel Training (264.16) (265.16)

7. Does the owner/operator maintain personnel training records at the facility? ☐ Yes ☒ No ☐ NA

Date of most recent training: April 2 & 3 1990

*Inspection
by Is operating
personnel in
presence permit*

Part 1

GENERAL FACILITY CHECKLIST

Section A - General Facility Standards

1. Does facility have EPA Identification No.? ☒ Yes ☐ No ☐ NA

a. If yes, EPA I.D. No. MSD 007027543
If no, explain. _____

2. Has facility received hazardous waste from a foreign source? ☐ Yes ☒ No ☐ NA

a. If yes, has it filed a notice with the Regional Administrator? ☐ Yes ☐ No ☒ NA

Waste Analysis

3. Does facility maintain a copy of the waste analysis plan at the facility? ☒ Yes ☐ No ☐ NA

a. If yes, does it include: (264.13) (265.13)

1. Parameters for which each waste will be analyzed? ☒ Yes ☐ No ☐ NA

2. Test methods used to test for these parameters? ☒ Yes ☐ No ☐ NA

3. Sampling method used to obtain sample? ☒ Yes ☐ No ☐ NA

4. Frequency with which the initial analyses will be reviewed or repeated? ☒ Yes ☐ No ☐ NA

5. (For offsite facilities) waste analyses that generators have agreed to supply? ☐ Yes ☐ No ☒ NA

6. (For offsite facilities) procedures which are used to inspect and analyze each movement of hazardous waste, including:

a. Procedures to be used to determine the identity of each movement of waste. ☐ Yes ☐ No ☒ NA

b. Sampling method to be used to obtain representative sample of the waste to be identified. ☐ Yes ☐ No ☒ NA

4. Does the facility provide adequate security through: (264.14) (265.14)

a. 24-hour surveillance system (e.g., television monitoring or guards)? ☐ Yes ☒ No ☐ NA

OR

*opach 24 hrs / day
7 days a week*

4. Does the owner/operator keep a written operating record at the facility? (264.73) (265.73)

☒ Yes ☐ No ☐ NA

a. If yes, does it include:

- available information
spec. required
cannot which
the
operating record
Wor post-closure
form is not*
1. Description and quantity of each hazardous waste received?
 2. Methods and dates of treatment, storage, and disposal?
 3. Location and quantity of each hazardous waste at each location?
 4. Cross-references to manifests/shipping papers?
 5. Records and results of waste analyses?
 6. Report of incidents involving implementation of the contingency plan?
 7. Records and results of required inspections?
 8. Monitoring, testing, and analytical data, for groundwater required by Subpart F?
 9. Closure cost estimates and, for disposal facilities, post-closure cost estimates (Part 264)?
 10. Notices of generators as specified in Section 264.12(b) (Part 264)?

☐ Yes ☒ No ☐ NA

☒ Yes ☐ No ☐ NA

☐ Yes ☒ No ☐ NA

☒ Yes ☒ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☐ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

b. Does facility have copy of permit on site?

5. Does the facility submit a biennial report by March 1 every even-numbered year? (264.75) (265.75)

☒ Yes ☐ No ☐ NA

a. If yes, do reports contain the following information:

- submitted as
separate documents*
1. EPA I.D. number?
 2. Date and year covered by report?
 3. Description/quantity of hazardous waste?
 4. Treatment, storage, and disposal methods?
 5. Monitoring data under Section 265.94(a)(2) and (b)(2) (Part 265)?
 6. Most recent closure and post-closure cost estimates?
 7. For TSD generators, description of efforts to reduce volume/toxicity of waste generated, and actual comparisons with previous year?
 8. Certification signed by owner/operator?

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

☐ Yes ☒ No ☐ NA

☐ Yes ☒ No ☐ NA

☒ Yes ☐ No ☐ NA

☒ Yes ☐ No ☐ NA

6. Has the facility received any waste (that does not come under the small generator exclusion) not accompanied by a manifest? (264.76) (265.76)

☐ Yes ☒ No ☐ NA

a. If yes, has he submitted an unmanifested waste report to the Executive Director?

☐ Yes ☐ No ☐ NA

7. Does the facility submit to the Executive Director reports on releases, fires, and explosions; contamination and monitoring data; and facility closure?

☒ Yes ☐ No ☐ NA

How long are they kept? 8 since 1981

a. If yes, do they include:

- | | | | |
|--|---|-----------------------------|-----------------------------|
| 1. Job title and written job description of each position? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |
| 2. Description of type and amount of training? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |
| 3. Records of training given to facility personnel? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |

Requirements for Ignitable, Reactive, or Incompatible Waste
(264.17) (265.17)

8. Does facility handle ignitable or reactive wastes? ☐ Yes ☒ No ☐ NA

a. If yes, is waste separated and confined from sources of ignition or reaction (open flames, smoking, cutting and welding, hot surfaces, frictional heat), sparks (static, electrical, or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat?

1. If yes, use narrative explanation sheet to describe separation and confinement procedures.
2. If no, use narrative explanation sheet to describe sources of ignition or reaction.

b. Are smoking and open flames confined to specifically designated locations? ☒ Yes ☐ No ☐ NA

c. Are "No Smoking" signs posted in hazardous areas? ☒ Yes ☐ No ☐ NA

d. Are precautions documented (Part 264 only)? ☒ Yes ☐ No ☐ NA

9. Check containers

a. Are containers leaking or corroding? ☐ Yes ☐ No ☒ NA

b. Is there evidence of heat generation from incompatible wastes? ☐ Yes ☐ No ☒ NA

Section B - Preparedness and Prevention

1. Is there evidence of fire, explosion, or contamination of the environment? (264.31) (265.31) ☒ Yes ☐ No ☐ NA

If yes, use narrative explanation sheet to explain.

*containers not observed in + around process area
fireproof bag full of*

2. Is the facility equipped with: (264.32) (265.32)

a. Internal communication or alarm system? ☒ Yes ☐ No ☐ NA

1. Is it easily accessible in case of emergency? ☒ Yes ☐ No ☐ NA

b. Telephone or two-way radio to call emergency response personnel? ☒ Yes ☐ No ☐ NA

c. Portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment? ☒ Yes ☐ No ☐ NA

d. Water of adequate volume of hoses, sprinklers, or water spray system? ☒ Yes ☐ No ☐ NA

1. Describe source of water facility water well

3. Is there sufficient aisle space to allow unobstructed movement of personnel and equipment? (264.35)(265.35) ☒ Yes ☐ No ☐ NA

4. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (Layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes.) (264.37) (265.37) ☒ Yes ☐ No ☐ NA

5. In the case that more than one police or fire department might respond, is there a designated primary authority? (264.37) (265.37) ☒ Yes ☐ No ☐ NA

a. If yes, name primary authority Cit. of Eureka

6. Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors, and equipment suppliers? (264.37) (265.37) ☒ Yes ☐ No ☐ NA

a. Are they readily available to all personnel? ☒ Yes ☐ No ☐ NA

7. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility? (264.37) (265.37) ☒ Yes ☐ No ☐ NA

8. If State or local authorities declined to enter into agreements, is this entered in the operating record? (264.37) (265.37) ☐ Yes ☐ No ☒ NA

Part ____

LAND DISPOSAL RESTRICTIONS CHECKLIST

Section A - General

1. Are hazardous wastes land-disposed on site? ☐ Yes ☒ No ☐ NA
- a. If yes, are one or more of the following circumstances true:
1. Granted extension from effective date pursuant to Section 268.5? ☐ Yes ☐ No ☒ NA
2. Granted exemption from a prohibition pursuant to a petition under Section 268.6? ☐ Yes ☐ No ☒ NA
3. Disposing of soil or debris resulting from a CERCLA response action or a RCRA corrective action, which will not be prohibited until November 8, 1990? ☐ Yes ☐ No ☒ NA
4. Facility is a small quantity generator of less than 100 kg of hazardous waste per month? ☐ Yes ☐ No ☒ NA
5. Wastes not yet prohibited by Part 268? ☐ Yes ☐ No ☒ NA
2. Are restricted wastes or residuals from treatment of a restricted waste diluted in any way prior to disposal? ☐ Yes ☒ No ☐ NA
3. Are there active surface impoundments used for treatment of hazardous wastes? ☐ Yes ☒ No ☐ NA
- a. If yes, does the unit's design and operation meet the requirements set forth in Section 268.4? ☐ Yes ☐ No ☐ NA
4. Has the facility sought exemption from any prohibition under Subpart C of Section 268 for the disposal of a restricted hazardous waste? ☐ Yes ☒ No ☐ NA
- a. If yes, has the facility's demonstration included the required components (waste I.D., waste analysis, comprehensive environmental characterization of unit site, QA/QC plan, sampling, testing, modeling)? ☐ Yes ☐ No ☒ NA
5. Has the facility determined whether it generates a restricted waste through waste analysis? (268.7) ☐ Yes ☒ No ☐ NA
- a. If yes, is the facility, in fact, handling a restricted waste(s)? ☐ Yes ☐ No ☐ NA
- b. If yes, does the restricted waste require treatment? ☐ Yes ☐ No ☐ NA

Handwritten:
Prohib. of
disposal

- c. If yes, has the generator notified the treatment facility in writing, and does the notification include all required components (EPA hazardous waste number, corresponding treatment standard, manifest number of shipment)? ☐ Yes ☐ No ☐ NA
6. Does the facility handle EPA Hazardous Waste Nos. F001 through F005 (solvent wastes)? (268.10) ☐ Yes ☒ No ☐ NA
- a. If yes, do any of the following conditions apply:
1. The generator of the solvent waste is a small quantity generator (not more than 1000 kg/month)? ☐ Yes ☐ No ☐ NA
 2. The solvent waste is generated from a CERCLA response corrective action? ☐ Yes ☐ No ☐ NA
 3. The solvent waste is a solvent-water mixture, solvent-containing sludge, or solvent-contaminated soil (non-CERCLA or RCRA corrective action) containing less than 1 percent total F001 through F005 solvent constituents. ☐ Yes ☐ No ☐ NA
- b. If no, have any of these restricted wastes began land-disposed (except in an injection well) since November 8, 1986? ☐ Yes ☒ No ☐ NA
7. Does the facility handle EPA Hazardous Waste Nos. F020, F021, F023, F026, F027, or F028 (dioxin-containing wastes)? ☐ Yes ☐ No ☐ NA
↑ perfect record
- a. If yes, do any of the following conditions apply:
1. Wastes are treated to meet standards of Subpart D of Section 268? ☐ Yes ☒ No ☐ NA
 2. Wastes are disposed of at a facility that has been granted a petition? ☐ Yes ☒ No ☐ NA
 3. An extension has been granted? ☐ Yes ☒ No ☐ NA
- b. If no, were these restricted wastes land disposed after November 8, 1988? ☐ Yes ☒ No ☐ NA
8. Are restricted wastes being treated?
- a. If yes, have any of their associated hazardous constituents exceeded the "Constituent in Waste Extract" (CWE) levels? ☐ Yes ☐ No ☐ NA

- b. If yes, did the generator select the most stringent treatment standard for the constituent of concern [Section 268.41(b)]?

☐ Yes ☐ No ☒ NA

c. F Solvents

Did the generator correctly determine the appropriate treatability group [Section 268.41] of the waste (e.g., wastewaters containing solvents, nonwastewater (i.e., < 1% TOC), pharmaceutical wastewaters containing spent methylene chloride, all other spent solvent wastes)?

☐ Yes ☐ No ☒ NA

d. California Wastes

Did the generator correctly determine the distinction between liquid hazardous wastes and non-liquid hazardous wastes that contain HOCs in concentrations greater than 1,000 mg/kg [Section 268.32(a)(3)]?

☐ Yes ☐ No ☐ NA

e. First and Second Third Waste

1. Did the generator ascertain whether restricted wastes were appropriately assigned wastewater or nonwastewater designations (nonwastewaters are > 1% TOC and > 1% suspended solids) [Section 268.7(a)]?

☐ Yes ☐ No ☐ NA

2. Is there any reason to believe that the generator may have diluted the waste to change the applicable treatment standard (based on review of process operation, pipe routing, point of sampling)?

☐ Yes ☐ No ☐ NA

3. Waste Analysis

- a. Did the generator determine whether the waste exceeds treatment standards based on Section 268.7(a):

1. Knowledge of wastes

☒ Yes ☐ No ☐ NA

- (i) List wastes for which "applied knowledge" was used:

4051, 4021, 4029

Section B - Generator Compliance

1. Waste Identification

a. Does the generator handle the following wastes:

1. Solvent wastes

- (i) F001, F002, F004, or F005 ☐ Yes ☒ No ☐ NA
(ii) F003 ☐ Yes ☒ No ☐ NA

If an F003 wastestream (listed solely for ignitability) has been mixed with a non-restricted solid or hazardous waste, does the resultant mixture exhibit the ignitability characteristic? ☐ Yes ☒ No ☐ NA

Note: Appendix A is intended to assist the inspector and enforcement official in determining whether the facility is generating F-solvent wastes, if such wastes were not identified by the facility previously. If you are concerned that F-solvent wastes may be misclassified or mislabeled, turn to Appendix A-1. To assist in identifying potentially misclassified F-solvents, Appendix A-2 presents a list of corresponding F and U wastes.

2. Dioxin wastes (F020-F023, F026-F028) ☒ Yes ☐ No ☐ NA
3. Potential California List Wastes ☐ Yes ☐ No ☐ NA
(see Appendix C)
(i) D002 ☐ Yes ☐ No ☐ NA
(ii) D004-D011 ☐ Yes ☐ No ☐ NA
(iii) Any other waste characterized by high concentrations of halogenated organic constituents (HOCs), metals, or cyanides? ☒ Yes ☐ No ☐ NA
(iv) Any F, K, P, or U wastes subject to "soft hammer" requirements that may qualify as California wastes due to HOCs, metals, or cyanide content? ☒ Yes ☐ No ☐ NA
(See Appendix F)
4. First Third Wastes (See MHWMR 268.10) ☐ Yes ☐ No ☐ NA
5. Second Third Wastes (See MHWMR 268.11) ☐ Yes ☐ No ☐ NA
6. (Reserved)

- (i) Are any of the above "soft hammer" wastes? (See Appendices D & E) ☐ Yes ☐ No ☐ NA

2. BDAT Treatability Group - Treatment Standards Identification

- a. Does the generator mix restricted wastes with different treatment standards for constituents of concern? ☐ Yes ☒ No ☐ NA

2. TCLP

☐ Yes ☐ No ☒ NA

(i) List wastes for which "TCLP" was used:

(ii) MHWMR 268.41 lists wastes for which treatment standards are expressed as concentrations in waste extract. Were any wastes handled by the generator subject to waste extract standards not tested using the TCLP?

☐ Yes ☐ No ☒ NA

If yes, list: _____

3. Total waste analysis

☐ Yes ☐ No ☒ NA

4. If files were retained, describe content and basis of applied knowledge determination:

Ydine y para

If determined by TCLP or total constituent analysis, provide date of last test, frequency of testing, and attach test results.

Dates/frequency: _____

Note which wastes were subjected to which tests:

Note any problems (e.g., inadequate analysis, variation of waste composition/generation for applied knowledge) _____

5. Were wastes tested using TCLP or total constituent analysis when a process or wastestream changed [Section 264.13(a)(3)(i) or Section 265.13(a)(3)(i)]?

☐ Yes ☐ No ☒ NA

b. Did the restricted wastes exceed applicable treatability group treatment standards upon generation [Section 268.7(a)(1)]?

List those that exceeded standards: _____

List those that did not exceed standards: _____

- c. Did the generator dilute the waste or the treatment residual so as to substitute for adequate treatment [Section 268.3] ☐ Yes ☐ No ☐ NA

6. Has the generator conducted any testing of those hazardous wastes to determine whether the concentrations qualify the hazardous wastes as California wastes? ☐ Yes ☐ No ☐ NA

If no, has the generator retained records documenting his "applied knowledge" that the hazardous waste is not a California waste? ☐ Yes ☐ No ☐ NA

4. Management

a. Onsite management

1. Were restricted wastes managed onsite? ☒ Yes ☐ No ☐ NA
2. For wastes that exceed treatment standards, was treatment in regulated units, storage for greater than 90 days, and/or disposal conducted? ☐ Yes ☒ No ☐ NA

If yes, TSDf checklist must be completed.

b. Offsite Management

1. If restricted wastes exceed treatment standards, did generator provide treatment facility notification with each shipment? [268.7(a)(1)]:
- | | | | |
|--|---|-----------------------------|-----------------------------|
| (i) EPA Hazardous Waste Number? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |
| (ii) Corresponding treatment standard? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |
| (iii) Manifest number? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |
| (iv) Waste analysis, if available? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |

Identify offsite treatment facilities _____
Allied Corp, Birmingham AL.

2. If restricted wastes do not exceed treatment standards, did generator provide the disposal facility with a notice and certification including:
- | | | | |
|--|------------------------------|-----------------------------|--|
| (i) EPA hazardous waste I.D. number? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> NA |
| (ii) Corresponding treatment standard? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> NA |

(iii) Manifest number

☐ Yes ☐ No ☒ NA

(iv) Certification regarding waste and that it meets treatment standards?

☐ Yes ☐ No ☒ NA

Identify land disposal facilities receiving the BDAT certified wastes _____

3. If the generator's waste is subject to a Section 268.5 case by case exemption, a Section 268.6 "no migration" exemption, or a nationwide variance does the generator's records indicate that he or she submits with each waste shipment [Section 268.7(a)(3)]:

(i) EPA Hazardous Waste Number?

☐ Yes ☐ No ☒ NA

(ii) Corresponding Treatment Standards?

☐ Yes ☐ No ☒ NA

(iii) All applicable prohibitions?

☐ Yes ☐ No ☒ NA

(iv) The manifest number?

☐ Yes ☐ No ☒ NA

(v) The date the wastes are subject to prohibitions?

☐ Yes ☐ No ☒ NA

(vi) Does generator keep records of all notifications/certifications send to offsite facilities?

☐ Yes ☐ No ☒ NA

List all prohibited wastes for which records are not provided per above [Section 268.7(a)(b)]:

_____ *None*

Identify TSDFs receiving any prohibited wastes subject to any exemptions and variances:

_____ *None*

4. If handler generates a "soft hammer" waste, does the generator send with each "soft hammer" waste shipment to a TSDF and retain copies of, a notice that includes [268.7(a)(4)]:

The EPA Hazardous Waste Number?

☒ Yes ☐ No ☐ NA

Applicable prohibitions?

☒ Yes ☐ No ☐ NA

The manifest number?

☒ Yes ☐ No ☐ NA

Waste analysis data, where available?

☒ Yes ☐ No ☐ NA

- (i) Do the generator's records indicate that any soft-hammer wastes are destined for disposed in a landfill or surface impoundment [Section 268.33(f)]?

☐ Yes ☐ No ☒ NA

If yes, list facility of destination and waste of concern [Section 268.8(a)(2)]

- (ii) Has the generator submitted demonstrations and certifications for each "soft-hammered" waste destined to be disposed in landfill or surface impoundment to the Regional Administrator prior to the shipment of waste to the TSDF [Section 268.7(a)(2)]? ☐ Yes ☐ No ☒ NA
- (iii) Has the generator retained a copy of the demonstration on site [Section 268.8(a)(3)-(a)(4)]? ☐ Yes ☐ No ☒ NA
- (iv) Has the generator retained copies of all Section 268.8 certifications sent to the TSDF [Section 268.7(a)(6)] ☒ Yes ☐ No ☐ NA
- (v) Did the generator submit the demonstration to the receiving facility upon the initial shipment of the waste [Section 268.8(a)(3)-(a)(4)]? ☐ Yes ☐ No ☒ NA
- (vi) If the Regional Administrator has invalidated the certification, has the generator ceased shipment of the waste and do records indicate that the generator has informed all receiving facilities of the invalidation [Section 268.8(b)(3)]? ☐ Yes ☐ No ☒ NA

5. Storage of Prohibited Waste

- a. Were prohibited wastes stored for greater than 90 days? ☐ Yes ☒ No ☐ NA

If yes, was facility operating as a TSD under interim status or final permit [Section 262.34(b)]?

☐ Yes ☐ No ☐ NA

If yes, TSDF Checklist must be completed.

6. Treatment Using RCRA 264/265 Exempt Units or Processes
(i.e., boilers, furnaces, distillation units, wastewater treatment tanks, etc.)

1. Were treatment residuals generated from RCRA 264/265 exempt units or processes? ☒ Yes ☐ No ☐ NA
- 1031

If yes, list type of treatment unit and processes

Kool oil wch asphalt

If yes, TSDF checklist must be completed.

Section C - Treatment, Storage & Disposal Requirements

1. General

- a. Does the facility conduct waste analysis (total and TCLP) on-site or through a commercial laboratory?

Yes

- b. Describe the frequency of sampling conducted by the facility.

2. Treatment Facilities

- a. Has the treatment facility revised its waste analysis plan [Section 268.7(b)] to meet the requirements of Section 264.13 or 265.13?

Yes No NA

- (i) Is the treatment facility conducting TCLP tests for wastes subject to treatment standards expressed as waste extracts per 268.7(b)(i)?

Yes No NA

- (ii) Is the treatment facility using the paint filter test for the California waste residues [Section 268.7(b)(ii)]?

Yes No NA

- (iii) Is the treatment facility testing the pH of California waste residues?

Yes No NA

- (iv) Is the treatment facility testing concentrations (not extracts) in the waste residues for prohibited wastes with established treatment standards expressed as waste concentrations [Section 268.7(b)(3)]?

Yes No NA

- (v) Is the treatment facility testing extracts of the waste residues for prohibited wastes having established treatment standards expressed as extract concentrations [Section 268.7(b)(1)]?

Yes No NA

3. Land Disposal Facilities

- a. Has the facility retained all notices and certifications from generators, storage and treatment facilities [268.7(c)(1)]? ☐ Yes ☐ No ☒ NA
- b. Are wastes and waste residues tested for compliance with applicable treatment standards and prohibitions [Section 268.7(c)(2)]? ☐ Yes ☐ No ☒ NA
- c. Are they being tested in conformance with the frequency specified in the waste analysis plan [Section 268.7(c)(3)]? ☐ Yes ☐ No ☒ NA
- d. Are the appropriate tests (TCLP vs. total waste) being used [Section 268.7(c)(2)]? ☐ Yes ☐ No ☒ NA

4. Storage (Section 268.50)

- a. Are restricted wastes exceeding treatment standards stored (excepting wastes subject to no migration exemptions, nationwide variances, case by case extensions, soft-hammered wastes)? *none on site during* ☐ Yes ☐ No ☒ NA
- b. Are all containers clearly marked to identify content and date(s) entering storage [Section 268.50(a)(2)]? ☐ Yes ☐ No ☒ NA
- c. Do operating records track the location, quantity and dates that wastes exceeding treatment standards entered and were removed from storage [Section 264.73 or Section 265.73]? ☒ Yes ☐ No ☐ NA
- d. Do operating records agree with container labeling? [Section 268.50(a)(2) or Section 264.73 or Section 265.73] ☐ Yes ☐ No ☒ NA
- e. Is waste exceeding treatment standards stored for less than 1 year? ☐ Yes ☒ No ☐ NA

If yes, can you show that such accumulation is not necessary to facilitate proper recovery, treatment, or disposal?

☐ Yes ☐ No ☒ NA

If yes, state how: _____

- f. Was/is waste exceeding treatment standards stored for more than one year?

☐ Yes ☒ No ☐ NA

If yes, state the owner/operator's proof that such storage was solely for the purposes of accumulation of such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment, or disposal:

5. Treatment in Surface Impoundments (Section 268.4)

- a. Are prohibited wastes placed in surface impoundments for treatment? ☐ Yes ☐ No ☒ NA
- b. Is the only recognizable "treatment" occurring in the impoundment either evaporation, dilution, or both [Section 268.4(b) and Section 268.3]? ☐ Yes ☐ No ☒ NA
- c. Did the facility submit a certification of compliance with minimum technology and groundwater monitoring requirements, and the waste analysis plan to the Agency [Section 268.4(a)(4)]? ☐ Yes ☐ No ☒ NA
- d. Have the minimum technology requirements been met [Section 268.4(a)(4)]? ☐ Yes ☐ No ☒ NA
1. If the minimum technology requirements have not been met, has a waiver been granted for that unit(s) [Section 268.4(a)(3)(iii)]? ☐ Yes ☐ No ☒ NA
- e. Have the Subpart F groundwater monitoring requirements been met [Section 268.4(a)(3)]? ☐ Yes ☐ No ☒ NA
- f. Have representative samples of the sludge and supernatant from the surface impoundment been tested separately, acceptably, and in accordance with the sampling frequency and analysis specified in the waste analysis plan and are the results in the operating record for all wastes with treatment standards or prohibition levels [Section 268.4(a)(2)]? ☐ Yes ☐ No ☒ NA
- g. Did the hazardous waste residue (sludge or liquid) exceed the treatment standards or prohibition levels? ☐ Yes ☐ No ☒ NA
- h. Provide the frequency of analyses conducted on treatment residues: _____

Does the frequency meet the requirements of the waste analysis plan [Section 264.13 or Section 265.13]? ☐ Yes ☐ No ☒ NA

i. Does the operating record adequately document the results of waste analyses performed [Section 264.13 or Section 265.13]? ☐ Yes ☐ No ☒ NA

j. Have the hazardous waste residues that exceed the treatment standards and/or prohibition levels been removed adequately and on an annual basis [Section 268.4(a)(2)(ii)]? ☐ Yes ☐ No ☒ NA

1. If answer to f is no and supernatant is determined to exceed treatment concentrations, is annual throughput greater than impoundment volume? (note: sludge exceeding treatment standards must be removed) ☐ Yes ☐ No ☒ NA

k. If residues were removed annually, were adequate precautions taken to protect liners and do records indicate that inspections of liner integrity are performed? ☐ Yes ☐ No ☒ NA

l. When removed, were residues of restricted wastes managed subsequently in another surface impoundment? ☐ Yes ☐ No ☒ NA

1. Were these residues subject to a valid 268.8 certification? ☐ Yes ☐ No ☒ NA

m. When removed, were wastes treated prior to disposal? ☐ Yes ☐ No ☒ NA

1. If yes, are waste residues treated on or offsite? ☐ Yes ☐ No ☒ NA

2. Identify management method: _____

6. Other Treatment

a. Does the facility operate treatment units (regulated or exempt) (not including surface impoundments)? ☐ Yes ☐ No ☒ NA

b. Describe the treatment processes, including exempt processes:

Treatment of wash water from wood processing
Discharged to K021

c. Does the facility treat soft-hammered wastes? ☐ Yes ☒ No ☐ NA

1. If yes, is treatment occurring as described in the generator's certification/demonstration [Section 268.8(c)(1)]? ☐ Yes ☐ No ☒ NA
2. Did the treatment facility certify he treated the soft-hammered waste as per the generator's demonstration and maintain copies of all certifications [268.8(c)(1)]? ☐ Yes ☐ No ☒ NA
3. Did the treatment facility send a copy of the generator's demonstration and certification to the receiving treatment, recovery, or storage facility [Section 268.8(c)(2)]? ☐ Yes ☐ No ☒ NA
- d. Does the facility, in accordance with an acceptable waste analysis plan, verify that the residue extract from all treatment processes for the restricted wastes are less than treatment standards or prohibition levels [Section 268.7(c)(2)]? ☒ Yes ☐ No ☐ NA
- e. Describe frequency of testing of treatment residuals.
- _____
- _____
- _____
- f. Was dilution used as a substitute for treatment [Section 268.3]? ☐ Yes ☒ No ☐ NA
- g. Are all notifications, certifications, and results of waste analyses kept in the operating record [Section 264.73(b) or Section 265.73(b)]? ☒ Yes ☐ No ☐ NA
- h. Are notices provided to land disposal facilities complete with Waste Number, treatment standard, manifest number, and analytical data (where available) submitted for each shipment of waste or treatment residual that meets the treatment standard stating that waste has been treated to treatment performance standards [Section 268.7(b)(4) and (5) and Section 268.8(c)(1)]? ☐ Yes ☐ No ☒ NA
- i. If the waste or treatment residue will be further managed at another storage or treatment facility, has the treatment facility complied with the 268.7(a) notification and certification requirements applicable to generators [Section 268.7(b)(6)]? ☐ Yes ☐ No ☒ NA

7. Land Disposal

- a. Are restricted and/or prohibited wastes placed in land disposal units (landfills, surface impoundments*) ☒ NA

waste piles, wells, land treatment units, salt domes/beds, mines/caves, concrete vault or bunker?) ☐ Yes ☐ No ☒ NA

b. Did facility have the notice and certification from generators/treaters in its operating record that all prohibited wastes disposed met standards for generation or treatment [Section 268.7(c)(1) and 268.7(a),(b)]? ☐ Yes ☐ No ☒ NA

c. Did the facility obtain waste analysis data through testing of the waste to determine that the wastes are in compliance with the applicable treatment standards [Section 268.7(c)(2)]? ☐ Yes ☐ No ☒ NA

If yes, was the frequency of testing as required by the facility's waste analysis plan [Section 264.13 or 265.13]? ☐ Yes ☐ No ☒ NA

d. Were prohibited wastes exceeding the applicable treatment standards or prohibition levels placed in land disposal units [268.30] excluding national capacity variances [268.30(a)]? ☐ Yes ☐ No ☒ NA

If yes, did facility have an approved waiver based on no migration petition [268.6] or approved case-by-case or capacity extension [268.5] or treatment standard variance [268.44][Section 268.30(d), Section 268.31(d), Section 268.32(g), Section 268.33(e)]? ☐ Yes ☐ No ☒ NA

e. Were restricted wastes subject to a national capacity variance or case-by-case extension disposed? ☐ Yes ☐ No ☒ NA

If yes, have the minimum technology requirements been met for all units receiving such wastes [Section 268.30(c), 268.31(c), 268.32(d), 268.33(d)]? ☐ Yes ☐ No ☒ NA

f. Were adequate records of disposal maintained [Section 264.73(b) or 265.73(b)]? ☐ Yes ☐ No ☒ NA

g. If wastes subject to a nationwide variances, case-by-case extensions [268.5], or no migration petitions [268.6] were disposed, does facility have generator's notices [268.7(a)(3)] and records of disposal? [Section 264.73(b) or Section 265.73(b)] ☐ Yes ☐ No ☒ NA

h. If the facility has a case-by-case extension, can the inspector verify that the facility is making progress as described in progress reports? ☐ Yes ☐ No ☒ NA

i. If the owner/operator is disposing of a soft-hammer waste, is he maintaining the generators and treaters (if applicable) notices and certifications [Section 268.8(a)(2)-(a)(4)]?

☐ Yes ☐ No ☒ NA

1. Is the facility disposing of any soft hammer wastes that may be classified as California wastes?

☐ Yes ☐ No ☒ NA

2. Did the facility seek to verify whether these wastes may be subject to all restrictions, e.g., California ban?

☐ Yes ☐ No ☒ NA

Part _____

GENERATOR'S CHECKLIST

Section A - EPA Identification No.

1. Does generator have EPA I.D. No.? (262.12) ☒ Yes ☐ No ☐ NA
- a. If yes, EPA I.D. No. MSD 0007027543

Section B - Manifest

1. Does generator ship waste offsite? (262.20) ☒ Yes ☐ No ☐ NA
- a. If no, do not fill out Sections B and D.
- b. If yes, identify primary offsite facility(s).
Allied Corp. Birmingham AL
2. Does generator use manifest? (262.20) ☒ Yes ☐ No ☐ NA
- a. If no, is generator a small quantity generator (generating between 100 and 1000 kg/month)? ☐ Yes ☒ No ☐ NA
1. If yes, does generator indicate this when sending waste to a TSD facility? ☒ Yes ☐ No ☐ NA
- b. If yes, does manifest include the following information?
1. Manifest document No. ☒ Yes ☐ No ☐ NA
2. Generator's name, mailing address, telephone number ☒ Yes ☐ No ☐ NA
3. Generator EPA I.D. No. ☒ Yes ☐ No ☐ NA
4. Transporter Name(s) and EPA I.D. No.(s) ☒ Yes ☐ No ☐ NA
5. a. Facility name, address, and EPA I.D. No. ☒ Yes ☐ No ☐ NA
- b. Alternate facility name, address, and EPA I.D. No. ☒ Yes ☐ No ☐ NA
- c. Instructions to return to generator if undeliverable ☐ Yes ☒ No ☐ NA
6. Waste information required by DOE - shipping name, quantity (weight or vol.), containers (type and number) ☒ Yes ☐ No ☐ NA
7. Emergency information (optional) (special handling instructions, telephone No.) ☒ Yes ☐ No ☐ NA
8. Is the following certification on each manifest form? ☒ Yes ☐ No ☐ NA

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA.

9. Does generator retain copies of manifests? ☒ Yes ☐ No ☐ NA

If yes, complete a through e.

- a. 1. Did generator sign and date all manifests? ☒ Yes ☐ No ☐ NA
2. Who signed for generator?

Name Gary McCallum Title _____

- b. 1. Did generator obtain handwritten signature and date of acceptance from initial transporter? ☒ Yes ☐ No ☐ NA
2. Who signed and dated for transporter?

Name James Lee Title ?

- c. Does generator retain one copy of manifest signed by generator and transporter? ☒ Yes ☐ No ☐ NA
d. Do returned copies of manifest include facility owner/operator signature and date of acceptance? ☒ Yes ☐ No ☐ NA
e. Does generator retain copies for 3 years? ☒ Yes ☐ No ☐ NA

Section C - Hazardous Waste Determination

1. Does generator generate solid waste(s) listed in Subpart D (List of Hazardous Waste)? (261.30) ☒ Yes ☐ No ☐ NA

a. If yes, list waste and quantities (include EPA Hazardous Waste No.) _____

2. Does generator solid waste(s) listed in Subpart C that exhibit hazardous characteristics? (corrosivity, ignitability, reactivity, EP toxicity) (261.20) ☐ Yes ☒ No ☐ NA

a. If yes, list wastes and quantities (include EPA Hazardous Waste No.) _____

- b. Does generator determine characteristics by testing or by applying knowledge of processes? applying knowledge

1. If determined by testing, did generator use test methods in Part 261, Subpart C (or equivalent)? ☐ Yes ☐ No ☒ NA

Shipped to
Allied Corp.
Fairfield Plant
1327 Erie St.
Birmingham AL 35224
Kool

AND
BOM
Notification
Attached!

a. If equivalent test methods used, attach copy of equivalent methods used.

3. Are there any other solid wastes generated by generators?

☒ Yes ☐ No ☐ NA

a. If yes, did generator test all wastes to determine nonhazardous characteristics?

☒ Yes ☐ No ☐ NA

1. If no, list wastes and quantities deemed nonhazardous or processes from which nonhazardous waste was produced (use additional sheet if necessary).

Section D - Pretransport Requirements

no Haz waste on site during inspection

1. Does generator package waste in accordance with 49 CFR 173, 178, and 179 (DOT requirements)? (262.30)

☐ Yes ☐ No ☒ NA

2. a. Are containers to be shipped leaking or corroding?

☐ Yes ☐ No ☒ NA

b. Use sheet to describe containers and condition.

c. Is there evidence of heat generation from incompatible wastes in the containers? (262.31)

☐ Yes ☐ No ☒ NA

3. Does generator follow DOT labeling requirements in accordance with 49 CFR 172?

☐ Yes ☐ No ☒ NA

4. Does generator mark each package in accordance with 49 CFR 172?

☐ Yes ☐ No ☒ NA

5. Is each container of 110 gallons or less marked with the following label? (262.32)

☐ Yes ☐ No ☒ NA

Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.

Generator name(s) and address(es) _____

Manifest document No. _____

6. Does generator have placards to offer to transporters? (262.33)

☒ Yes ☐ No ☐ NA

7. Accumulation time: (262.34)

a. Are containers used to temporarily store waste before transport? ☒ Yes ☐ No ☐ NA

1. If yes, is each container clearly dated:
Also, fill out rest of No. 7 (accum. time) ☐ Yes ☐ No ☒ NA

b. 1. Does generator inspect containers for leakage or corrosion? (265.174 - Inspections) ☒ Yes ☐ No ☐ NA

2. If yes, with what frequency?

c. Does generator locate containers holding ignitable or reactive waste at least 15 meters (50 feet) from the facility's property line? (265.176 - Special Requirements for Ignitable or Reactive Wastes) ☐ Yes ☐ No ☒ NA

NOTE: If tanks are used, fill out checklist for tanks.

d. Are the containers labeled and marked in accordance with Section D-3, D-4, and D-5 of this form? ☐ Yes ☐ No ☐ NA

NOTE: If generator accumulates waste on site, fill out checklist for General Facilities, Subparts C and D.

e. Does generator comply with requirements for personnel training? (Attach checklist for 265.16 - Personnel Training.) ☐ Yes ☐ No ☐ NA

8. Describe storage area. Use photos and narrative explanation sheet. *large metal buildings N-E of process area. Both N-H hydrogen & hazardous waste stored*

Section E - Recordkeeping and Records (262.40)

1. Does generator keep the following reports for 3 years?

a. Manifests and signed copies from ☒ Yes ☐ No ☐ NA
b. Biennial Reports ☒ Yes ☐ No ☐ NA
c. Exception reports ☒ Yes ☐ No ☐ NA
d. Test results ☒ Yes ☐ No ☐ NA

2. Where are the records kept (at facility or elsewhere)?

at facility

3. Who is in charge of keeping the records?

Name EAP, McWhelland Title Lead Foreman

Section F - Special Conditions

1. Has generator received from or transported to a foreign Administrator? ☐ Yes ☒ No ☐ NA
- a. If yes, has he filed a notice with the Regional Administrator? ☐ Yes ☐ No ☐ NA
- b. Is this waste manifested and signed by a foreign cosignee? ☐ Yes ☐ No ☐ NA
- c. If generator transported wastes out of the country, has he received confirmation of delivered shipment? ☐ Yes ☐ No ☐ NA

Part ____

SURFACE IMPOUNDMENTS CHECKLIST

Section A - Design Requirements (264.221) (265.221)

1. Does facility operate one or more surface impoundments? Yes No NA
closed impoundment June, 1993
- a. If yes, has owner/operator installed two or more liners and a leachate collection system for any new units, replacement of any existing units, or lateral expansion of units? Yes No NA
- b. Is owner/operator exempt from double-liner leachate collection system requirements because Regional Administrator has determined that impoundment's design will prevent the migration of hazardous constituents? Yes No NA
- c. Did owner/operator notify Regional Administrator 60 days prior to receiving waste (Part 265)? Yes No NA
- d. If impoundment does not have a double liner, is it exempt due to one of the following reasons? Yes No NA
1. Monofill contains only wastes from a foundry furnace emission controls or metal casting molding sand.
 2. Monofill has at least one liner for which there is no evidence of leaking.
 3. Monofill is located, designed, and operated to ensure that no migration of constituents into ground or surface water occurs.
- e. Does owner/operator take measures to prevent overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, and other equipment; and human error (Part 264)? Yes No NA
- f. Is impoundment surrounded by dikes (Part 264)? Yes No NA

Section B - Operating Requirements

1. Does owner/operator maintain at least 60 cm (2 ft) of freeboard (Part 265)? (265.222)
2. Does owner/operator have certification from a qualified engineer that alternate design features will prevent overtopping? (Part 265) (265.222) Yes No NA

Section C - Containment Systems

1. Do all dikes have a protective cover such as grass, shale or rock? (Part 265) (265.223) ☐ Yes ☐ No ☒ NA

Section D - Waste Analysis and Trial Tests

1. Will the surface impoundment be used to: (265.225)
- a. Chemically treat a hazardous waste which is substantially different from wastes previously treated in the impoundment? (Part 265) ☐ Yes ☐ No ☒ NA
 - b. Chemically treat hazardous waste with a substantially different process than any previously used in that impoundment? ☐ Yes ☐ No ☒ NA
2. If the answer in #1 was yes to any questions, has the owner/operator:
- a. Conducted waste analysis or trial treatment tests? ☐ Yes ☐ No ☒ NA
 - b. Obtained written, documented information on treatment of similar wastes under similar operating conditions? ☐ Yes ☐ No ☒ NA

Section E - Inspections and Monitoring

1. Does the owner/operator:
- a. Inspect the freeboard at least one each operating day? (265.226) ☐ Yes ☐ No ☒ NA
 - b. Inspect the surface impoundment including dikes and vegetation at least once per week and after storms? (264.226) (265.226) ☐ Yes ☐ No ☒ NA
2. Have any deteriorations or malfunctions that have been found been remediated? ☐ Yes ☐ No ☒ NA
3. Has the owner/operator obtained a certification from a qualified engineer that the impoundments dike has structural integrity? (264.226) ☐ Yes ☐ No ☒ NA

Section F - Emergency Repairs, Contingency Plans (Part 264) (264.227)

1. Does facility have a contingency plan? ☐ Yes ☐ No ☒ NA
- a. If yes, does plan stipulate that impoundment be removed from service under the following conditions:
 - 1. Sudden drop in liquid level? ☐ Yes ☐ No ☒ NA

2. Leaking dike?

☐ Yes ☐ No ☒ NA

b. Does plan detail the steps to be followed when removing impoundment from service, including:

1. Shutting off flow into impoundment?

☐ Yes ☐ No ☒ NA

2. Containing any surface leakage?

☐ Yes ☐ No ☒ NA

3. Stopping the leak?

☐ Yes ☐ No ☒ NA

4. Notifying Regional Administrator of problems in writing if leaks cannot be contained?

☐ Yes ☐ No ☒ NA

c. If impoundment was removed from service, did owner/operator take the necessary precautions to rectify problems before restoring impoundment to service?

☐ Yes ☐ No ☒ NA

d. If impoundment was removed from service and was not restored to service, was impoundment closed in accordance with an approved closure plan?

☐ Yes ☐ No ☒ NA

Section G - Closure and Post-Closure (264.228) (265.228)

1. Is a closure plan retained at the facility?

☒ Yes ☐ No ☐ NA

2. At closure, did owner/operator:

a. Remove standing liquids (Part 265)?

☒ Yes ☐ No ☐ NA

b. Remove waste and waste residue (Part 265)?

☒ Yes ☐ No ☐ NA

c. Remove liner (Part 265)?

☒ Yes ☐ No ☐ NA

d. Remove underlying and surrounding contaminated soil?

☒ Yes ☐ No ☐ NA

e. If not, did owner/operator demonstrate to Regional Administrator that the above materials were non-hazardous (Part 265)?

☐ Yes ☐ No ☒ NA

1. If no, has owner/operator closed the impoundment and provided post-closure care (Part 265)?

☐ Yes ☐ No ☒ NA

3. If regulated under Part 264, has owner/operator: (264.228)

a. Removed or decontaminated waste residues, contaminated system components, subsoils, structures, and equipment, and managed them as hazardous waste?

☒ Yes ☐ No ☐ NA

b. Eliminated free liquids by removing or solidifying remaining wastes or waste residues?

☒ Yes ☐ No ☐ NA

c. Stabilized remaining wastes to a bearing capacity sufficient to support final cover?

☒ Yes ☐ No ☐ NA

d. Covered the impoundment with final cover?

☒ Yes ☐ No ☐ NA

4. Did owner/operator leave any residuals in place at closure (Part 264)? (264.228)

☒ Yes ☐ No ☐ NA

5. In post-closure, does owner/operator maintain integrity of cover and groundwater monitoring system, and prevent runoff and runoff? (264.228) (265.228)

☒ Yes ☐ No ☐ NA

Section H - Ignitable and Reactive Wastes (264.229) (265.229)

1. Are ignitable or reactive wastes placed in the impoundment?

☐ Yes ☒ No ☐ NA

- a. If yes, are they treated, rendered, or mixed before or immediately after placement in the impoundment so it no longer meets the definition of ignitable or reactive?

☐ Yes ☐ No ☐ NA

OR

- b. Is the impoundment used solely for emergencies?

☐ Yes ☐ No ☐ NA

Section I - Incompatible Wastes (264.230) (265.230)

1. Are incompatible wastes placed in the impoundment?

☐ Yes ☒ No ☐ NA

*Inspection for 15 for operating
Impoundment
last date inspected 12-10-90*

Part ____

GROUNDWATER MONITORING CHECKLIST

CME
Completed on
day of inspection

Section A - Monitoring System

1. Does the facility have a groundwater monitoring system in operation? ☒ Yes ☐ No ☐ NA
- a. If yes, does the system consist of: (265.91)(264.97)
1. At least one upgradient/background well? ☒ Yes ☐ No ☐ NA
2. At least three downgradient wells? ☒ Yes ☐ No ☐ NA
- b. Are wells identified in the field? ☒ Yes ☐ No ☐ NA
- c. Are well heads in good condition (i.e. free of cracks)? ☒ Yes ☐ No ☐ NA
- d. Are well heads locked? ☒ Yes ☐ No ☐ NA
- e. Do well heads have bumper guards or are otherwise protected? ☒ Yes ☐ No ☐ NA
some do / others do not depending on traffic mess

Section B - Sampling and Analysis (Part 264)

1. Does the facility obtain and analyze samples from the groundwater monitoring system? ☒ Yes ☐ No ☐ NA
2. Has facility developed and followed a groundwater sampling and analysis plan? (264.97(d)) ☒ Yes ☐ No ☐ NA
- a. If yes, does this plan include procedures and techniques for:
1. Sample collection? ☒ Yes ☐ No ☐ NA
2. Sample preservation? ☒ Yes ☐ No ☐ NA
3. Analytical procedures? ☒ Yes ☐ No ☐ NA
4. Chain-of-custody control? ☒ Yes ☐ No ☐ NA
5. Determining the groundwater surface elevation? ☒ Yes ☐ No ☐ NA
3. Has facility specified a statistical method to be used in evaluating groundwater monitoring data? ☒ Yes ☐ No ☐ NA
4. Is all groundwater monitoring data recorded in the operating record? ☒ Yes ☐ No ☐ NA

KII is located in the Town of Tie Plant, Mississippi, which is approximately five miles southeast of Grenada, Mississippi. The facility is a wood treating facility which uses creosote and pentachlorophenol in oil as the components in the pressure treatment of wood products for railroads, construction companies, utilities, and others. Raw material and product arrive and leave by rail and truck. The hazardous wastes which are generated, treated, stored and disposed of at the facility are bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol (K001). Waste creosote (U051) and certain waste pentachlorophenol (F027) are also included at times. The facility has three hazardous waste management units. These are the less than 90 day drum/container storage area, a surface impoundment, and a boiler ash landfill.

The less than 90 day drum/container storage unit has become the responsibility of KII. KII will be classified as a large quantity generator. Drums of both hazardous and non-hazardous wastes are stored at this unit.

The surface impoundment has remained the responsibility of BMS. This unit is in the process of closing. A revised post-closure plan was submitted and approved as a permit modification by the Department of Natural Resources Permit Board on May 23, 1989. This unit was operated as a wastewater treatment lagoon and generated the list hazardous waste K001. Treatment of the wastewater in the surface impoundment was preceded by a flow equalization tank, an oil/water separator and a flocculation system. Currently, the wastewater is being routed through the newly constructed wastewater treatment plant before being discharged to the City of Grenada POTW.

The boiler ash landfill will remain the responsibility of BMS. The closure plan for the boiler ash landfill was approved at the May 23, 1989 Department of Natural Resources Permit Board meeting. Ash from a boiler used for the thermal conversion of wood and various wastes to steam was deposited at this site. Prior to October, 1987, these wastes included the list hazardous wastes K001, U051, and F027. The ash from burning of these wastes is considered a hazardous waste. Prior to July, 1987, these ashes were deposited at the boiler ash landfill site. This site no longer receives ash waste. Waste sludge from the two impoundments which closed prior to November 19, 1980, was landfarmed at this site prior to ash disposal. Ash from the boiler is now disposed of in the county sanitary landfill. The boiler ash landfill site will be capped with the waste in place.

9. Findings

A visual site inspection on regulated units and a record review were conducted at the facility. Records reviewed included inspection reports, personnel training, waste manifests on received and shipped wastes, groundwater monitoring records, and reports, financial and liability assurance documents, closure and post-closure plans, and facility contingency plan.

Section C - Detection Monitoring Program (264.98)

1. Has owner/operator established detection monitoring system to provide reliable indications for detection releases? ☒ Yes ☐ No ☐ NA
- a. If yes, are the following components included in the system:
1. Background values? ☒ Yes ☐ No ☐ NA
 2. Determination of groundwater flow rate and direction annually? (264.98(e)) ☒ Yes ☐ No ☐ NA
 3. Determination of statistically significant increases over background concentrations at each well? (264.98(f)) ☒ Yes ☐ No ☐ NA
 4. If there was a statistically significant increase indicated, did the facility notify the Executive Director per 264.98(g)(1)? ☒ Yes ☐ No ☐ NA
 5. Did facility attempt to demonstrate an apparent increase was not caused by a regulated unit per MHWMR 264.98(g)(6)? ☒ Yes ☐ No ☐ NA
 6. Is all information contained in the facility's operating record? ☒ Yes ☐ No ☐ NA

Section D - Compliance Monitoring Program (264.99)

1. Does the facility operate a compliance monitoring program? ☐ Yes ☒ No ☐ NA
- a. If yes, does the facility:
1. Determine the groundwater flow rate and direction in the uppermost aquifer annually? (264.99(e)) ☐ Yes ☐ No ☐ NA
 2. Collect at least four samples from each well at least semi-annually? (264.99(f)) ☐ Yes ☐ No ☐ NA
 3. Determine whether there is statistically significant evidence of increased contamination at each monitoring well? ☐ Yes ☐ No ☐ NA
 4. If an increase was indicated, did facility notify the Executive Director? ☐ Yes ☐ No ☐ NA
 5. Analyze samples for constituents listed in Appendix IX of Part 264 at least annually? ☐ Yes ☐ No ☐ NA
 6. Record all information in the operating record? ☐ Yes ☐ No ☐ NA

Section E - Corrective Action Program (Part 264 only) (264.100)

1. Does facility follow a corrective action program that meets the facility's permit requirements? ☒ Yes ☐ No ☐ NA
- 11-2-2010
Set. 3-2-10 for 500 units

Section F - Sampling and Analysis (Part 265)

1. Has the facility developed and followed a groundwater sampling and analysis plan? ☐ Yes ☐ No ☒ NA
- a. If yes, does the plan include procedures and techniques for:
- 1. Sample collection? ☐ Yes ☐ No ☐ NA
 - 2. Sample preservation? ☐ Yes ☐ No ☐ NA
 - 3. Analytical procedure? ☐ Yes ☐ No ☐ NA
 - 4. Chain-of-custody control? ☐ Yes ☐ No ☐ NA
2. Has the owner/operator established initial background concentrations or values of all parameters specified in 265.92(b)? ☐ Yes ☐ No ☐ NA
- a. Samples collected to establish background quality (from above)? ☐ Yes ☐ No ☐ NA
- b. Samples collected to indicate contamination (from above)? ☐ Yes ☐ No ☐ NA
- c. Elevation of groundwater surface at each monitoring well at each sampling event? ☐ Yes ☐ No ☐ NA

Section G - Preparation, Evaluation, and Response (Part 265 only) (265.93)

1. Did owner/operator prepare an outline of a groundwater quality assessment program? ☐ Yes ☐ No ☒ NA
- a. If yes, did program determine the following:
- 1. Whether hazardous waste or hazardous waste constituents have entered the groundwater? ☐ Yes ☐ No ☐ NA
 - 2. Rate and extent of hazardous waste or hazardous waste constituent migration? ☐ Yes ☐ No ☐ NA
 - 3. Concentrations of hazardous waste or hazardous waste constituents in groundwater? ☐ Yes ☐ No ☐ NA
- b. For each well, has owner/operator calculated the arithmetic mean and variance, based on four replicate measurements for each sample, and compared the results with initial background mean? ☐ Yes ☐ No ☐ NA
- c. Has owner/operator submitted information documenting any significant increase in comparisons for up-gradient wells (or decrease in pH)? ☐ Yes ☐ No ☐ NA
- d. If the comparisons for downgradient wells show a significant increase (or pH decrease), has the owner/operator obtained additional groundwater samples from

those downgradient wells in which a significant decrease was detected? (Samples must be split in two, and analyses must be obtained of all additional samples to determine whether the significant difference was a result of lab error)

___Yes ___No ___NA

1. If analyses (described above) were performed, and confirmed the significant increase (or pH decrease), did owner/operator notify Regional Administrator within 7 days? ___Yes ___No ___NA
2. If analyses confirmed significant increase (or pH decrease), did owner/operator submit to the Executive Director within 15 days after notification (discussed above) a certified groundwater quality assessment program? ___Yes ___No ___NA
3. Did owner/operator implement the groundwater quality assessment program and, at a minimum, did he determine the following: ___Yes ___No ___NA
 - a. Rate and extent of migration of the hazardous waste constituents in the groundwater? ___Yes ___No ___NA
 - b. Concentrations of the hazardous waste in the groundwater? ___Yes ___No ___NA
4. Did owner/operator submit a report to the Executive Director containing the requests of the assessment outlined in No. 3 above within 15 days? ___Yes ___No ___NA
5. Did owner/operator notify the Executive Director of reinstatement of indicator evaluation program upon finding that no hazardous waste or hazardous waste constituents had entered the groundwater? ___Yes ___No ___NA
6. If owner/operator determined that hazardous waste or hazardous waste constituents entered the groundwater, did he either continue to make the determinations listed in No. 3 above on a quarterly basis until final closure or groundwater quality assessment plan was implemented prior to post-closure care, or cease to make determinations required in No. 3 above if groundwater quality assessment plan was implemented during post-closure? ___Yes ___No ___NA
7. If any groundwater quality assessment program is implemented to satisfy No. 3 above prior to final closure, has owner/operator completed program and reported to the Executive Director, as outlined in No. 4 above? ___Yes ___No ___NA
8. If owner/operator does not monitor at least annually to satisfy No. 3 above, does owner/operator evaluate data on groundwater elevation

obtained under No. 3c in Section F above
to determine whether the requirements for
locating monitoring wells are satisfied?

☐ Yes ☐ No ☐ NA

- a. If evaluation shows that the requirements
for monitoring wells are not satisfied,
has owner/operator modified the number,
location, or depth of the monitoring wells
to bring the system into compliance?

☐ Yes ☐ No ☐ NA

Section H - Recordkeeping and Reporting (Part 265 only) (265.94)

1. Unless owner/operator is monitoring to satisfy the
requirements of Section 265.93(d)(4), does owner/
operator:

- a. Keep records of the analyses required in Section
265.92(c) and (d), groundwater surface elevations
required in 265.93(b) throughout the active life
of the facility and throughout post-closure?
- b. Report the following information to the Executive
Director:

☐ Yes ☐ No ☒ NA

1. Within 15 days of analysis for each quarterly
sampling event, does owner/operator submit
results of background concentrations?
2. Does owner/operator inform the Executive
Director about any parameters that exceed
maximum contaminant levels listed in Appendix
III?
3. (Annually) does owner/operator report
concentrations or values of parameters listed
in Section 265.92(b)(3) for each well, including
required evaluation for these parameters under
Section 265.93(b)?

☐ Yes ☐ No ☐ NA

☐ Yes ☐ No ☐ NA

☐ Yes ☐ No ☐ NA

- a. Does owner/operator also identify
differences from initial background
concentrations found in the upgradient
wells no later than March 1 following
each calendar year?

☐ Yes ☐ No ☐ NA

2. Does owner/operator submit results of the groundwater
surface elevations under Section 265.93(f), along with
a description of the response, if needed?

☐ Yes ☐ No ☐ NA

3. If groundwater is monitored to satisfy requirements of Section 265.93(d)(4), did owner/operator do the following:

- a. Keep records of analyses and evaluations specified in the plan throughout active life and post-closure? ☐ Yes ☐ No ☐ NA
- b. (Annually, until final closure) submit to the Regional Administrator a report containing the results of the groundwater quality assessment program, including the calculated rate of migration of hazardous waste or hazardous waste constituents by March 1? ☐ Yes ☐ No ☐ NA

Part ____

FINANCIAL REQUIREMENTS CHECKLIST

Section A - Closure

1. Is facility required to provide financial assurance for closure? *closed June, 1990* ☐ Yes ☐ No ☒ NA
- a. Type of financial assurance _____
- b. Amount of closure costs _____
1. Date of most recent adjustment _____
- c. Effective date of mechanism _____
- d. Expiration date of mechanism _____
- e. Is instrument adequate? ☐ Yes ☐ No ☐ NA

Section B - Post-Closure

1. Is facility required to provide financial assurance for post-closure care? ☒ Yes ☐ No ☐ NA
- a. Type of financial assurance *Financial Tat* _____
- b. Amount of closure costs *8834* *961,496* _____
1. Date of most recent adjustment *Nov. 5, 1990* _____
- c. Effective date of mechanism *Sept 30, 1990* _____
- d. Expiration date of mechanism *Sept 31, 1991* _____
- e. Is instrument adequate? ☒ Yes ☐ No ☐ NA

Section C - Corrective Action

1. Is facility required to provide financial assurance for corrective action? ☒ Yes ☐ No ☐ NA
- HSWA Rule*
- a. Type of financial assurance _____
- b. Amount of closure costs _____
1. Date of most recent adjustment _____
- c. Effective date of mechanism _____
- d. Expiration date of mechanism _____
- e. Is instrument adequate? ☐ Yes ☒ No ☐ NA *Has not yet complied*

Section D - Liability Requirements

1. Is facility required to provide liability coverage for sudden accidental occurrences? ☐ Yes ☒ No ☐ NA
- a. Type of assurance _____
- b. Is amount at least \$1 million per occurrence, \$2 million annual aggregate? ☐ Yes ☐ No ☐ NA
- c. Effective date of mechanism _____

d. Expiration date of mechanism _____

2. Is facility required to provide liability coverage
for non-sudden accidental occurrences? Yes No NA

a. Type of assurance _____

b. Is amount at least \$3 million per occurrence, \$6
million annual aggregate? Yes No NA

c. Effective date of mechanism _____

d. Expiration date of mechanism _____

CHCKLIST:lr



2 3 4





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

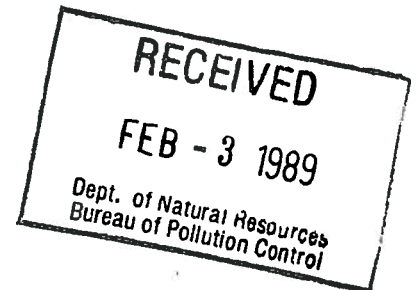
345 COURTLAND STREET
ATLANTA, GEORGIA 30365

JAN 31 1989

4WD-RCRA

Mr. Sam Mabry, Chief
Hazardous Waste Division
Bureau of Pollution Control
Mississippi Department of Natural Resources
P.O. Box 10385
Jackson, Mississippi 39209

Re: **Koppers Co. Inc.**
MSD 007 027 543
Compliance Evaluation Inspection Report



Dear Mr. Mabry:

Enclosed please find the referenced document which discusses violations found during the December 12, 1988, inspection.

Per the Memorandum of Agreement, Mississippi has the primary responsibility for enforcement. Please advise us of your intended action.

If you have any questions regarding this matter, please contact Karen McKinney of my staff at (404) 347-7603.

Sincerely yours,

Allan E. Antley, Chief
Waste Compliance Section
RCRA Branch

Enclosure

1) Inspector and Author of Report

Karen McKinney
Environmental Engineer

2) Facility Information

Koppers Company, Inc.,
MSD 007 027 543
P.O. Box 160
Tie Plant, MS 38960

3) Responsible Official

J.D. (Rock) Clayton, Plant Manager

4) Inspection Participants

Karen McKinney, USEPA
Leo Romanowski, USEPA
Dave Bockelmann, MSDNR
J.D. (Rock) Clayton, Koppers

5) Date and Time of Inspection

December 12, 1988 - 9:15 a.m. CST

6) Applicable Regulations

Mississippi Hazardous Waste Management Regulations (MHWMR) Sections 262, 264, and 265 (adopted by reference and therefore cited herein as 40 CFR).

7) Purpose of Inspection

This inspection was a USEPA Compliance Evaluation Inspection (CEI) to determine the facility's overall compliance with the applicable regulations.

8) Facility Description

The Koppers Tie Plant facility is located about five miles southeast of Grenada, Mississippi. The facility uses creosote and pentachlorophenol-in-oil in the pressure treatment of wood products for railroad ties, utility poles and pilings. The hazardous wastes produced by this facility are K001, U051, and F027 and consist of bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol (K001), and waste creosote (U051), or certain waste pentachlorophenol (F027). The regulated waste management units at the facility are a drum storage area, a

surface impoundment, an ash landfarm, and a sprayfield. The facility has an operating permit issued by the Mississippi Commission for the use of the surface impoundment. The surface impoundment is in the process of closure.

The surface impoundment was used as a wastewater treatment lagoon. It is about one-half acre in size and had a maximum operating depth of about seven feet. The surface impoundment generated K001 (bottom sediment sludge from the treatment of wastewaters from wood preserving processes using creosote or pentachlorophenol). The surface impoundment was preceded by a mechanical oil/water separator and flow equalization which recaptures product and minimizes the amount of creosote which flows into the impoundment and becomes waste. Wastewater from the impoundment was pumped to a sprayfield for treatment. The facility is in the process of closing the impoundment. The impoundment has been dewatered and has had 3,032 tons of soil and sludge removed. Koppers is awaiting test results for clean closure.

The wastewater from the treating process is now pumped into two 10,000 gallon railcar tanks equipped with heating coils. The water is evaporated by the heating coils and any sludge generated is recycled back into the process.

Effluent from the surface impoundment was periodically pumped to the sprayfield. The sprayfield is located on the north-northwest section of the property. It is about four acres in size and surrounded by a low berm that controls run-on/run-off. The field is covered with non-food-chain vegetation. The frequency of pumping depended upon water levels within the surface impoundment and climatic conditions. Spraying did not occur during rainfall.

Koppers operates a boiler at its facility for the conversion of thermal wood and various wastes into steam. These wastes included the listed hazardous wastes K001, U051, and F027. The ash generated from the operation of the boiler was placed on a landfarm until 1987. The landfarm had been used, prior to November 19, 1980, for the disposal of wood treating process wastes which came from old surface impoundments that had been closed. The ash is a listed hazardous waste thereby making the ash landfarm a regulated land disposal unit. Koppers stopped burning the hazardous waste in July of 1987. The facility still burns non-hazardous waste in the boiler which comes from the process areas (cleaning of the treatment cylinders and door pit areas, etc.) and disposes of the ash at a local landfill.

The facility operates a less than 90-day storage building located in the process area. Koppers previously had interim status for a storage area located near the holding tanks. This area was used only once and is no longer in use. It has been certified closed. The building stores drums containing the non-hazardous waste which is used in the boiler and hazardous waste which is stored until it is shipped off-site.

9) Findings

A record review of the inspection logs, personnel training records, manifests, closure plans, groundwater monitoring records, and the contingency plan was conducted. Records were kept back to 1981. The inspection logs were kept in proper order. Inspections were conducted at the sprayfield, surface impoundment, ash landfarm, and the drum storage building. The personnel training records were maintained for three years or more. Closure plans and the contingency plan were kept at the facility. Financial assurance and liability records were inspected and found to be in compliance. The closure cost estimate for all regulated units was updated in March of 1988. It was suggested that the cost estimate be broken out by units instead of a lump sum.

In reviewing the manifests and waste analysis records, it was discovered that Koppers had received hazardous waste (K001) from another Koppers facility and had burned it in the boiler. The ash was sent to a local landfill. The waste was classified as non-hazardous on the manifest and was received on July 29, 1988 and August 15, 1988. The sludge came from creosote blowdown tanks, PCP separators, and something referred to as basement sediment and is therefore considered K001.

The groundwater monitoring records were reviewed. The records were kept for three years for the surface impoundment and sprayfield. Groundwater monitoring began at the ash landfarm in February of 1988.

An inspection of the operating area and regulated units followed the record review. The first area looked at was the less than 90-day storage area. Six drums of hazardous waste (U051) were being stored at the time of the inspection. Four of the drums have been stored since November 18, 1987 and two since March 10, 1988. The storage of these drums exceed the 90 days allowed in 40 CFR Part 262.34. This was noted as a violation at the May 16, 1988 inspection. The facility has had an adequate amount of time to dispose of the drums. The facility has therefore operated a storage facility without having an operating permit or interim status and must close the unit.

The next area seen was the process area which includes the treatment cylinders, creosote tanks, and the boiler. An area inside the concrete wall surrounding the creosote tanks used to be the facility's interim storage area. This area was used only once since it became too difficult to lift the drums over the wall to store and remove them. The facility has since closed out this unit. Additionally the concrete pad near the boiler was used to store hazardous waste before it was burned. It has since been cleaned and decontaminated.

The ash landfarm is a land disposal unit and is therefore subject to the landfill regulations (Subpart N of 40 CFR). The unit is surrounded by a three-strand barb-wire fence which is inadequate security for a landfill. There is plastic sheeting covering the ash landfarm that is being used for wind dispersal control. There was

ponding on top of the plastic, bare patches not covered by the plastic, and the plastic did not extend to all sides. Additionally, soils from cleanup activities around the plant were placed on top of the plastic. There are four groundwater monitoring wells for the ash landfarm.

The facility has begun closure at the surface impoundment. The impoundment has been dewatered and had soils and sludges removed. Closure activities began in July of 1988. Closure has been halted until results from soil testing are received. The front portion of the fence had been removed during closure operations. During periods of inactive closure the fence needs to be reinstalled. There are eight groundwater monitoring wells for the surface impoundment.

The sprayfield has four groundwater monitoring wells and is surrounded by a three-strand barb-wire fence. The gate was locked but held on the post by one strand of wire. The gate needs to be better secured to the fence posts. More signs are needed around the sprayfield so that they can be seen from any approach. The sprayfield ceased receiving wastewater from the impoundment in July, 1988 and has had all spray nozzles removed. There is still brownish-black soils and dead vegetation surrounding the area where the nozzles were. There is a berm surrounding the sprayfield for run-on/run-off control.

10) Conclusions

Koppers has violated the following requirements of the applicable regulations:

40 CFR Part 262.12(c) - The facility must not offer his hazardous waste to transporters or to treatment, storage, or disposal facilities that have not received an EPA identification number.

40 CFR Part 262 Subpart B - The Manifest

40 CFR Part 262 Subpart C - Pre-transport Requirements

40 CFR Part 262 Subpart D - Recordkeeping and Reporting

These four violations address the disposal of hazardous waste boiler ash (K001) at a local landfill when sludge from the separator and blowdown tank was burned in the boiler.

40 CFR Part 264.14 - Security - The front portion of the fence surrounding the surface impoundment had been removed to implement closure. However, at the time of the inspection, closure activities had been suspended for several months. Therefore, a temporary fence should be placed there to prevent unknowing entry to the surface impoundment until closure activities are resumed.

40 CFR Part 265.14 - Security - There needs to be more signs located around the sprayfield so as to be seen from all approaches. Additionally, the gate to the sprayfield needs to be repaired.

40 CFR Part 265 Subpart G - Closure and Post-closure Care - The facility has failed to close the sprayfield.

The state has addressed this violation with an Administrative Order which is under appeal.

40 CFR Part 265.302 - General Operating Requirements - The facility has failed to provide adequate run-on/run-off control and wind dispersal control systems for the ash landfarm.

Section 3005 - Solid Waste Disposal Act - Permits for Treatment, Storage, or Disposal of Hazardous Waste - The facility has operated a storage area without having a permit or interim status. The facility must close this unit in accordance with the regulations.

Additionally, the facility has operated the sprayfield without having interim status or a permit. This violation has been addressed by the state and is currently under appeal.

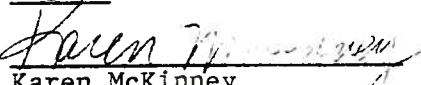
11) Recommendations

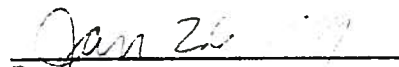
Koppers needs to break out their closure and post-closure cost estimates into specific units instead of lump sum. This would ensure that all unit cost estimates are updated accordingly.

Koppers is fast approaching the 180 days allowed for closure of the surface impoundment and needs to either meet the deadline or request an extension.

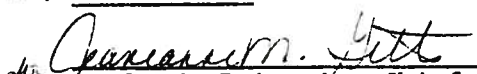
Koppers needs to provide documentation as to where the waste is coming from that is being burned in the boiler. This is to ensure that only non-hazardous waste is being burned. The facility may need to conduct analysis or certifications of all wastes received.

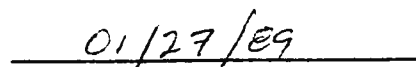
12) Signed


Karen McKinney
Inspector

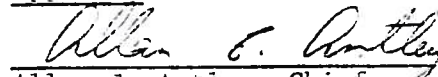

Date


13) Concurrence


Doyle T. Brittain, Chief
West Compliance Unit


Date

Approval


Allan E. Antley, Chief
Waste Compliance Unit


Date



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



December 5, 1989

FILE COPY

Mr. Matthew C. Plautz, P.E.
Program Manager
Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Workplan for Facility-Wide
Assessment
Koppers Industries, Inc.
Grenada, MS Facility
MSD007027543

The Mississippi Department of Environmental Quality (MDEQ) has reviewed the January, 1989, Soil and Groundwater Investigation of Solid Waste Management Units report, and agree that additional field investigation is warranted. In accordance with Mississippi Commission Order No. 1208-87, issued April 3, 1987, we request that you submit a workplan to define the extent of vertical and horizontal contamination both on- and off-site. The workplan should also satisfy the HSWA requirements found in your permit regarding investigation of solid waste management units.

Two copies of the workplan should be submitted to the MDEQ within 45 days. Both the MDEQ and EPA will review the plan. If you have any questions, feel free to contact me at (601) 961-5171.

Sincerely,

Gail Macalusa
Hazardous Waste Division

GM-7:lr

pc: Mr. James H. Scarbrough, EPA

Beazer

RECEIVED

November 8, 1989

NOV 10 1989

Ms. Gail Macalusa
Mississippi Department of
Natural Resources
2380 Highway 80 West
P.O. Box 10385
Jackson, MS 39209

DEPARTMENT OF
ENVIRONMENTAL QUALITY

Re: RCRA Closure Schedules
Koppers Industries, Inc.
Grenada, Mississippi Facility
MSD 007 027 543

Dear Ms. Macalusa:

As requested by MSDNR, Beazer Materials and Services, Inc. (BM&S) has prepared the following summary of schedule information associated with the closure of the surface impoundment and boiler ash landfarm at the above-referenced facility. I apologize for not sending this information to you sooner.

Surface Impoundment - On June 28, 1988, Koppers Company, Inc. (Koppers), now BM&S, was issued a hazardous waste management permit (No. 88-543-01) which included an approved closure plan and estimated schedule. The schedule for closure estimated a total duration of 435 days from initiation. Although the upgraded wastewater pretreatment system did not become fully operational until March 1989, the facility ceased the continued use of the impoundment on or about August 7, 1988 in advance of the land disposal prohibition of EPA hazardous waste K001. At about that time, Koppers had initiated the removal of K001 sludge resident in the impoundment. Assuming that August 8, 1988 coincides with "Day 0" of the schedule, completion of closure was therefore expected on or before September 6, 1989. Certain events have transpired which have delayed the project as outlined below. In addition, a chronological history of the closure through September 21, 1989 was sent to your attention on October 6, 1989.

1. Closure Plan Modification - A letter dated April 13, 1989 was sent by BM&S to MSDNR requesting a Class I modification incorporating a change in the closure cap configuration which was better engineered and protective than the original. On June 9, 1989, BM&S received notice from MSDNR that the modification had been approved. During this time period a significant quantity of rainwater had accumulated in the

Ms. Gail Macalusa
November 8, 1989
Page 2

impoundments which required pumping to the Grenada POTW (under a limited hydraulic loading rate) over a time period of approximately 30 days before closure activities could be resumed. This down-time was not anticipated in the original closure schedule.

Total delay: Modification approval = 57 days
Pumping rainwater = 30 days
Total Delay = 87 days

2. Closure Execution: Due to the characteristics of the borrow material, bentonite was added to the soil to obtain a permeability of less than 1×10^{-7} cm/sec. Field placement and subsequent permeability tests for the first soil-bentonite lift failed these minimum permeability requirements and necessitated removal of the lift, modification to soil-bentonite mix ratios and replacement of the first lift. The total delay caused by this activity was approximately 14 days. Weather conditions during September and October 1989 have not been ideal for soil working activities resulting in additional delays of undetermined duration. The final seeding of the completed cap occurred during the week ending November 3, 1989 corresponding with the completion of field activities.

Total delay: 14 days (plus undetermined weather delays)

Therefore, the total determined delays amount to approximately 101 days (excluding undetermined weather delays), which changes the anticipated date of final closure from September 6, 1989 to December 16, 1989. Closure activities remaining involve the final survey of the closed impoundment and preparation of survey plat and deed restriction package and preparation of a thorough construction documentation report which will include the engineers and owner/operator certifications, and as-built drawings. BM&S anticipates that this report will be submitted to MSDNR on or before December 16, 1989, dependent upon the timely submittal of the final survey for inclusion in the construction documentation report. BM&S has strived to execute this important project in an expeditious and technically sound manner.

Boiler Ash Landfarm - The closure plan for the boiler ash landfarm was submitted to MSDNR in December 1987 in satisfaction of amended Agreed Order 1280-87. The closure plan stipulated closure of the unit as a landfill. On June 9, 1989, BM&S received notice from MSDNR that the closure plan had been approved by the Mississippi Natural Resources Permit Board. The

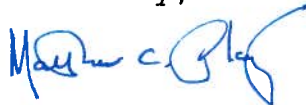
Ms. Gail Macalusa
November 8, 1989
Page 3

approved closure plan included an estimated schedule of approximately 8 months. This schedule assumed approval of the closure plan on April 3, 1988 in its development. Because the closure plan was not approved until June 9, 1989, the modified estimated completion date for closure activities is February 9, 1990.

BM&S is currently in the process of finalizing the construction specifications for bidding the project. The actual letting of the contract is expected by late November 1989. Construction activities are estimated to take approximately three months and preparation of the final construction report including certifications another month for a total of four months. BM&S is therefore requesting an extension of the completion date for closure activities from February 9, 1990 to April 15, 1990. This new projected closure completion date is contingent upon suitable weather conditions and/or other factors that may cause delays. BM&S will promptly notify MSDNR of any changes to this schedule attributable to delays. BM&S believes that the additional time is necessary to perform the closure project under strict adherence to the approved closure plan.

I trust that this information satisfies your needs at this time. Please do not hesitate to call if you should have any questions.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

cc: B. Nolan
J. D. Clayton (KII)
J. Batchelder (KII)
S. Spengler (MSDNR)
M. Bollinger (Keystone)

Koppers
Comp. #4

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2950

Beazer

DIVISION OF SOLID WASTE

REVIEWED BY Jm

DATE 11/3/89

COMMENTS sent to EPA

November 2, 1989

FEDERAL EXPRESS

Ms. Gail Macalusa
Hazardous Waste Division
Mississippi Department of
Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39289-0385

RE: RCRA Issues
Koppers Industries, Inc.
Tie Plant, Mississippi
MSD 007027543

Dear Ms. Macalusa:

In accordance with your September 26, 1989 letter and our October 16, 1989 meeting in your offices, Beazer Materials and Services, Inc. (BM&S) is submitting a draft Engineering Feasibility Plan for Corrective Action under Hazardous Waste Management Permit No. 88-543-01, which was issued by MDNR for the surface impoundment at the above-referenced facility.

Please call if you have any questions or comments.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/jls

Enclosure

cc: B. S. Nolan (BM&S) [w/o enclosure]
R. Anderson (Keystone) [w/o enclosure]
J. Batchelder (KII)
J. Clayton (KII)
S. Spengler (MDNR) [w/o enclosure]

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2950

Beazer

RECEIVED

NOV - 7 1989

Dept. of Environmental Quality
Bureau of Pollution Control

November 2, 1989

FEDERAL EXPRESS

*permit not original (with original permit A
& permit completion monitoring) is in permit file 10/27/89*

Ms. Gail Macalusa
Hazardous Waste Division
Mississippi Department of
Natural Resources
Bureau of Pollution Control
P. O. Box 10385
Jackson, MS 39289-0385

*Plan is in side pocket
of Permit*

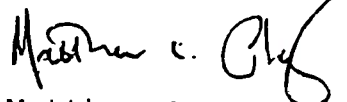
RE: RCRA Issues
Koppers Industries, Inc.
Tie Plant, Mississippi
MSD 007027543

Dear Ms. Macalusa:

In accordance with your September 26, 1989 letter and our October 16, 1989 meeting in your offices, Beazer Materials and Services, Inc. (BM&S) is submitting a draft Engineering Feasibility Plan for Corrective Action under Hazardous Waste Management Permit No. 88-543-01, which was issued by MDNR for the surface impoundment at the above-referenced facility.

Please call if you have any questions or comments.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/jls

Enclosure

cc: B. S. Nolan (BM&S) [w/o enclosure]
R. Anderson (Keystone) [w/o enclosure]
J. Batchelder (KII)
J. Clayton (KII)
S. Spengler (MDNR) [w/o enclosure]

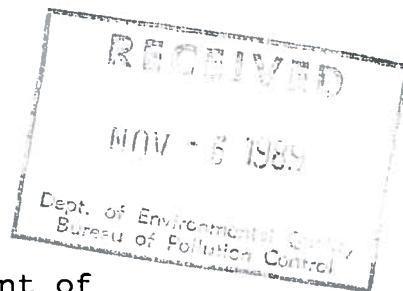
Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2950

Beazer

November 3, 1989

Mr. Steve Spengler
Mississippi Department of
Natural Resources
Box 10385
2380 Highway 80 West
Jackson, MS 39209

Re: Koppers Industries, Inc.
Tie Plant, Mississippi
MSD 007027543



DIVISION OF SOLID WASTE

REVIEWED BY Am

DATE

COMMENTS sent to EPA

Dear Mr. Spengler:

On June 10, 1988, Koppers Company, Inc. submitted a closure plan to close the sprayfield at the above-referenced facility as a hazardous waste management unit. Subsequent to that submittal there was a change in the ownership of Koppers Company, Inc. such that the company no longer exists by that name.

As you are aware, on June 30, 1988, BNS Acquisitions, Inc. ("BN&S Acquisitions"), a Delaware Corporation, and an indirect wholly-owned subsidiary of Beazer PLC, acquired indirectly more than 90% of the outstanding common stock of Koppers Company, Inc. ("Koppers"). On November 14, 1988, BNS Acquisitions acquired indirectly the balance of the common shares. On December 28, 1988, Koppers Industries, Inc. (KII) purchased the assets of the former Koppers wood treating facility located in Tie Plant, Mississippi. On January 20, 1989, BNS Acquisitions merged into Koppers, and on January 26, 1989, the name of Koppers was changed to Beazer Materials and Services, Inc. ("BM&S").

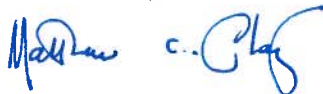
With regard to the sprayfield, neither BM&S (formerly Koppers Company, Inc.) nor KII ever managed a listed or characteristic hazardous waste on the sprayfield. This conclusion is confirmed by the recent decision from the federal Environmental Protection Agency Chief Judicial Officer In The Matter Of: Brown Wood Preserving Company (RCRA (3008) Appeal No. 86-4), wherein it was conclusively established that sprayfields in the wood treating industry do not generate the listed hazardous waste K001. The closure plan was submitted as a "protective" measure pending a final resolution of the regulatory status of the sprayfield. By submitting the closure plan, Koppers waived neither its nor its successor's right to dispute and challenge the applicability of the hazardous waste regulatory program, including closure requirements, to the sprayfields.

Mr. Steve Spengler
November 3, 1989
2.

Because there is no final action which subjects the sprayfield to the hazardous waste regulatory program, we conclude that we are not required to close the sprayfield as a hazardous waste management unit. In light of this and other factors, MSDNR revoked Administrative Order No. 1440-88 relative to the sprayfield in a letter dated July 11, 1989. Based on the discussion above, BM&S is withdrawing the closure plan and intends to resubmit a revised closure approach, as appropriate.

I hope that this information will resolve the regulatory status of the sprayfield at the above-referenced facility. Please do not hesitate to contact me if you have any questions or desire further information.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

cc: J. Scarbrough (USEPA IV)
B. Nolan (BM&S)
D. Calland (Babst-Calland)
D. Bluedorn (Babst-Calland)
J. Clayton (KII)
J. Batchelder (KII)
R. Hamilton (BM&S)
D. Kerschner (BM&S)

DIVISION OF SOLID WASTE

REVIEWED BY _____

DATE Oct. 30

COMMENTS sent to EPA

Beazer

October 26, 1989

FEDERAL EXPRESS

Mr. William Stephen Spengler
Mississippi Department of Natural
Resources
Bureau of Pollution Control
2380 Highway 80 West
PO Box 10385
Jackson, MS 39209

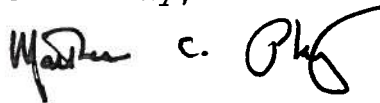
Re: Risk-based Engineering Assessment
Boiler Ash Disposition
Koppers Industries, Inc.
Grenada, MS Facility
MSD 007 027 343

Dear Mr. Spengler:

Enclosed please find two copies of the report entitled "Risk-based Engineering Assessment" prepared by our consultant, H. M. Rollins Company for the above-referenced facility. This report satisfies Item 5. of the Mississippi Commission on Natural Resources Agreed Order No. 1598-89.

Please call if you should have any questions.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

Enclosures

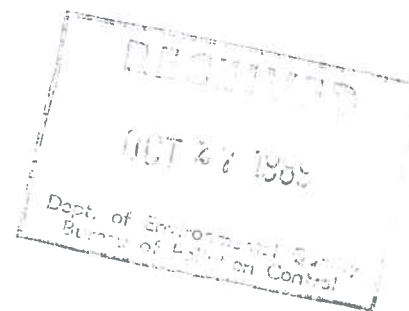
cc: B. Nolan [w/o enclosure]
J. Batchelder (KII) [w/enclosure]
J. Clayton (KII) [w/enclosure]
M. Rollins (H. M. Rollins)

Koppers
Comp. #4

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2950

Beazer

October 23, 1989



Mr. William Stephen Spengler
Mississippi Department of Natural
Resources
Bureau of Pollution Control
2380 Highway 80 West
PO Box 10385
Jackson, MS 39209

Re: Risk-based Engineering Assessment
Boiler Ash Disposition
Koppers Industries, Inc.
Grenada, MS Facility
MSD 007 027 343

Dear Mr. Spengler:

Beazer Materials and Services, Inc. (BM&S) is planning on submitting the Risk-based Engineering Assessment report for the disposal of boiler ash at the Grenada County Landfill for the above-referenced facility by October 27, 1989. This submittal is in accordance with Agreed Order 1598-89 issued by the Mississippi Commission on Natural Resources on June 23, 1989. This date was verbally confirmed by you during conversation with Dave Kerschner (BM&S) on October 19, 1989.

Please call if you have any questions.

Sincerely,

Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

cc: B. Nolan
J. Clayton (KII)
J. Batchelder (KII)
M. Rollins (H. M. Rollins)



October 16, 1989

Ms. Gail Macalusa
Mississippi Department of
Natural Resources
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39209

Re: RCRA Issues
Koppers Industries, Inc.
Grenada, Mississippi Facility
MSD 007 027 543

Dear Ms. Macalusa:

Enclosed please find the results of the Appendix IX analysis of groundwater samples collected at both the surface impoundment and boiler ash landfarm area groundwater monitoring wells in June 1989 for the above referenced facility. A detailed discussion of the significance of these results is planned during our meeting on October 16, 1989 at your offices.

Please call if you have any questions.

Sincerely,

Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr
Enclosure

cc: S. Spengler (MS DNR) (w/o enclosure)
B. Nolan (w/o enclosure)
R. Anderson (Keystone) (w/o enclosure)
J. Batchelder (KII)
J. Clayton (KII) (w/o enclosure)

RECEIVED

OCT 13 1989

DEPT. OF NATURAL RESOURCE
BUREAU OF POLLUTION CONTROL

RECEIVED

OCT 16 1989

DEPT. OF NATURAL RESOURCE
BUREAU OF POLLUTION CONTROL

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2950

Beazer

October 13, 1989

FEDERAL EXPRESS

Ms. Gail Macalusa
Mississippi Department of
Natural Resources
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39209

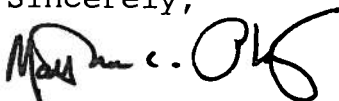
Re: RCRA Issues
Koppers Industries, Inc.
Grenada, Mississippi Facility
MSD 007 027 543

Dear Ms. Macalusa:

Beazer Materials and Services, Inc. (BM&S) has scheduled to meet with MSDNR on October 16, 1989 to discuss in detail the groundwater monitoring program for the surface impoundment at the above referenced facility. We believe that this meeting is important to fully assess the data generated from the existing groundwater monitoring program to address the need to modify the program in the future.

BM&S plans on addressing these issues in our planned meeting with MSDNR prior to submitting any required permit modification application. Please call if you have any questions.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

cc: S. Spengler (MSDNR)
B. Nolan
R. Anderson (Keystone)
J. Batchelder (KII)
J. Clayton (KII)

CORD OF TELEPHONE CONVERSATION

Name of firm or party

Keystone (Kopas)

Address

Contact

Dianne Smith

Phone

(912) 825-7700

Dianne had called us yesterday and asked if we could spend the day with her at the BALE. She said that she had said that there was no problem with the drilling mud and they could spend that over.

I called the EPA hotline. Their response was that the muds + down water were not a listed hazardous waste; however, they need to be checked for characteristic hazardous waste.

I told Dianne this and, in addition, the landfill was never under interim status and they were not supposed to put anything in the landfill anyway.

The state also wanted them to test the muds + down water from each well and send the analytical results to us.

Also, Bob Petty just called, and I informed him of the conversation with Dianne.

Dail maulana

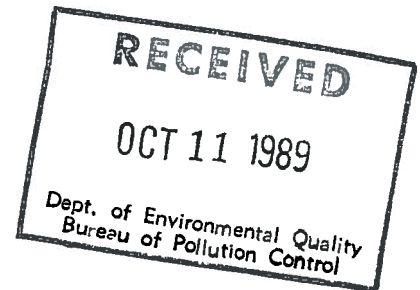
Signature

10/13/89

Date

Beazer

October 6, 1989



Ms. Gail Macalusa
Hazardous Waste Division
Mississippi Department of
Natural Resources
Bureau of Pollution Control
Post Office Box 10385
Jackson, MS 39289-0385

Re: RCRA Issues
Koppers Industries, Inc.
Tie Plant, MS Facility
MSD007027543

Dear Ms. Macalusa:

Beazer Materials and Services, Inc. (BM&S), formerly Koppers Company, Inc., is in receipt of your letter dated September 26, 1989 relating to the submittal of a permit modification for the surface impoundment and an amended Part A application. This letter was received by BM&S on October 2, 1989.

On May 3, 1989, BM&S notified the MDNR that the surface impoundment may be affecting groundwater quality. Please be aware that this notification was specifically related to sampling events for the first and second quarters of 1988. On June 28, 1988 a Hazardous Waste Management Permit (No. 88-543-01) was issued to Koppers Company, Inc. which contained provisions to conduct a groundwater detection monitoring program (see Part IV of permit). The program consisted of monitoring the following wells at the identified frequency for the monitoring parameters consisting of naphthalene, acenaphthylene, fluoranthene, pentachlorophenol and 2,4-Dinitrophenol (Section IV.E.1):

- o Compliance Point Wells (R-7, R-8A, R-8B, R9A, R9C, and R-9D) at least semiannually (Section IV.6.1)

Ms. Gail Macalusa
October 6, 1989
Page 2

- o Background wells (R-1 replacement and R-10) on a quarterly basis for one year to determine a mean value (Section IV.E.2) and semi-annually thereafter (Section IV.E.3)

For evaluating the data generated from this program, Section IV.G.5 of the permit states that "After (emphasis added) the background mean value has been established for each constituent in accordance with Condition IV.E.2, the Permittee shall then determine whether there as been a statistically significant increase for any constituent over its background value...". Because the year required to develop a background value ended in June 1989, we could not possibly have provided notification in accordance with our operating permit.

BM&S did conduct a complete Appendix IX Sampling (conducted on June 21, 1989) for both the surface impoundment and boiler ash landfarm monitoring well networks. We have just received the full Appendix IX sampling results and after reduction to a reasonable summary format will submit these results to your attention. Based on a cursory review of the data, no additional hazardous constituents were discovered other than common laboratory or sampling related compounds (eg. acetone and bis(2-ethylhexyl) phthalate) for the surface impoundment monitoring wells. The following constitutes a summary of the results for total acid extractable phenolics (TAEP) and total polynuclear aromatic hydrocarbons (TPAH) for the June 1989 sampling round:

<u>Well No.</u>	<u>TAEP¹</u>	<u>TPAH¹</u>
R-1	2.36	8.05
R-7	1.14	0.54
R-8A	3.04	0.93
R-88	2.79	0.40
R-9A	2.13	1.65
R-9C	0.72	0.42
R-9D	3.86	0.31
R-10A	4.57	0.39

¹All results are in micrograms per liter (ug/l)

A review of these results indicates that the constituent levels identified in background wells R-1 and R-10A are very similar or greater than those noted for the compliance point wells.

BM&S will, however, be submitting a permit modification to conduct a compliance monitoring program and will attempt to

Ms. Gail Macalusa
October 6, 1989
Page 3

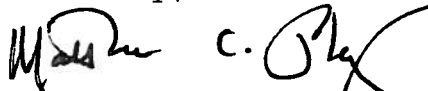
supply this by October 12, 1989 to be responsive to your request. We are planning on incorporating the results of the Appendix IX sampling into the program as a matter of efficiency. A feasibility plan for corrective action will also be forwarded to your attention by October 30, 1989. At this time, it does not appear that a Corrective Action Program is warranted, pending more extensive review of the analytical database available.

As promised in my letter dated September 21, 1989 to Mr. Stephen Spengler, P.E. of your office I have enclosed a chronological history of the surface impoundment closure at the Grenada facility. This history was prepared by Keystone Environmental Resources, Inc., our engineer on the project.

The condition of several monitoring wells at the Grenada facility were brought to my attention by field personnel conducting groundwater sampling during the later part of September 1989. As required under Condition IV.C.2 of Permit No. 88-543-01, BM&S is notifying MDNR that Wells R-8, R-8B and R-9 were either disturbed or damaged during surface impoundment closure activities. These wells will be repaired or replaced within 30 days. In addition Wells R-25 and R-26 installed during the RFI study have been covered or damaged by plant operations. BM&S plans on abandoning these wells by grouting to ground surface during the same time period in which Wells R-8, R-9 and R-8B are being repaired or replaced. Your concurrence on the abandonment issue is therefore requested.

If you should have any questions or require additional information, please do not hesitate to call.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr
Enclosure

cc: R. Hamilton
B. Nolan - w/o Enclosure
R. Anderson (Keystone)
J. Batchelder (KII)
J. Clayton (KII)
S. Spengler (MS DNR)

**BEAZER MATERIALS & SERVICES, INC.
KOPPERS INDUSTRIES, INC. GRENADA, MS PLANT
CHRONOLOGICAL HISTORY OF SURFACE IMPOUNDMENT CLOSURE**

DATE	EVENT
July 1988	Closure plan approved.
March 17, 1989	Construction bid documents completed.
March 22, 1989	Pre-bid meeting.
April 5, 1989	Soil-bentonite addendum issued to bidders.
April 11, 1989	Bids received.
April 13, 1989	Letter requesting Class I modification of the closure cap design submitted.
April 18, 1989	Meeting with Bureau of Pollution Control to discuss proposed modification to closure cap design.
April 27, 1989	Meeting with Bureau of Pollution Control, Industrial Pretreatment Division to discuss discharge of accumulated rainwater to the Grenada POTW.
May 5, 1989	Letter, dated May 2, 1989, received from Louis Lavallee, Chief Industrial Pretreatment Division, Bureau of Pollution Control, granting approval to discharge accumulated rainwater to the Grenada POTW.
May 11, 1989	Letter, dated May 8, 1989, received from Kaleel Rahaim, Hazardous Waste Division, Bureau of Pollution Control, acknowledgeable the request for Class I modification, requesting additional information/clarifications and outlining additional procedures to modify the permit.
May 18, 1989	Response to May 8, 1989 letter sent to Kaleel Rahaim.
May 22, 1989	Purchase order issued to Green & Green Construction Company for closure construction.
June 9, 1989	Letter, dated June 1, 1989, received from Charles Chisolm, Bureau Director, stating that the request for a permit modification had been approved by the Mississippi Natural Resources Permit Board on May 23, 1989.
June 19, 1989	Koppers Industries, Inc. personnel began pumping rainwater from the surface impoundment to the Grenada POTW.

June 26-30, 1989	40-hour Hazardous Waste Operations and Emergency Response training conducted for the contractor's personnel.
July 18, 1989	Completed removal of rainwater from the surface impoundment.
July 19, 1989	Began subgrade preparation work.
July 22, 1989	Completed subgrade preparation work.
July 22, 1989	Began placement of unclassified fill.
July 29, 1989	Completed placement of unclassified fill.
July 30, 1989	Began placement of first lift of the soil-bentonite cap.
July 31, 1989	Completed first lift of soil-bentonite cap. Obtained two "undisturbed" samples of the cap for laboratory permeability testing.
August 7, 1989	Received laboratory permeability test results for first lift of the soil-bentonite cap. The results indicated that the permeability of the lift exceeded the 1×10^{-7} cm/sec requirement. Resampled and retested the borrow source and as a result modified the bentonite addition rate and changed soil borrow source.
August 8, 1989	Started new soil-bentonite lift to replace the substandard lift.
August 12, 1989	Completed new first lift of soil-bentonite cap. Obtained two "undisturbed" samples of the cap for laboratory permeability testing.
August 17, 1989	Received laboratory permeability test results for new first lift of the soil-bentonite cap indicating the lift met the permeability requirement.
August 18, 1989	Started second soil-bentonite lift.
August 22, 1989	Completed second lift of soil-bentonite cap. Obtained two "undisturbed" samples of the cap for laboratory permeability testing.
August 28, 1989	Received laboratory permeability test results for second lift of the soil-bentonite cap indicating the lift met the permeability requirement.
August 29, 1989	Started third soil-bentonite lift.
September 1, 1989	Completed third lift of soil-bentonite cap. Obtained two "undisturbed" samples of the cap for laboratory permeability testing.

September 8, 1989	Received laboratory permeability test results for third lift of the soil-bentonite cap indicating the lift met the permeability requirement.
September 9, 1989	Started fourth soil-bentonite lift.
September 12, 1989	Completed fourth lift of soil-bentonite cap. Obtained two "undisturbed" samples of the cap for laboratory permeability testing.
September 19, 1989	Received laboratory permeability test results for fourth lift of the soil-bentonite cap indicating the lift met the permeability requirement.
September 21, 1989	Began final grading of the soil-bentonite cap and preparation for placement of the conducting zone.

ORD OF TELEPHONE CONVERSA

Name of firm or party

Beacon

Address

Contact

Pat Planty

Phone

called to say he just received my
Sept. 26, 1989 letter concerning the permit
modification application. He said they
would try to get it done in the 10
days requested (= Oct. 9, 1989), but he's
not sure they can make that. I should
be ready in a couple of weeks.

He also said they will be about
ready for Oct. 30, 1989 deadline
for submission of the feasibility
plan for conversion action.

Signature

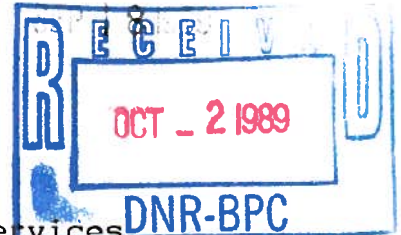
Dail P. P. P.

Date

10/4/89



September 13, 1989



Mr. Robert White
Division of Public Health Services
Office of Waste Management
Health & Welfare Building
Six Hazen Drive
Concord, New Hampshire 03301

RE: Former Koppers Company, Inc.
Wood Preserving Facility in
Nashua, New Hampshire

Dear Mr. White:

I am writing to address the Division's concern regarding the groundwater treatment/creosote recovery system currently in operation at the above-referenced site. As you know, Beazer Materials and Services, Inc. (BM&S) is pumping groundwater at the site and treating the recovered groundwater prior to discharging it to a local publicly operated treatment works. Two of the components in the wastewater treating facility, the gravity separator and the API separator, recover a creosote material from the groundwater which is used in lieu of a commercial chemical product. By letter dated November 14, 1985, the Division confirmed that this material is exempt from regulation under the New Hampshire hazardous waste regulatory program. Since that confirmation, you have raised a question regarding the management practices for the "heavy" phase of the recovered creosote material.

In the past, two shipments of this material have been sent to the Koppers Industries, Inc. wood preserving facility in Grenada, Mississippi to be recycled in a boiler. BM&S has made a management decision to discontinue this practice and no further shipments will be sent to Grenada for this purpose. BM&S is currently evaluating other potential recycling options for the heavy phase and will advise you of our intended recycling option at a later date.

Gail
← Note 2nd #
"recycled"

Mr. Robert White
September 13, 1989
Page Two

I hope that this information addresses the Division's concerns.
Please do not hesitate to contact me if you have any questions or
desire further information.

Sincerely,



Shannon K. Craig
Program Manager-Environmental Services

SKC/mtd

cc: Billie S. Nolan, Esquire

227 - 2684



Phone: 412/733-9500

440 College Park Dr., Monroeville, PA 15146

Fax: 412/325-3103

8259600

March 3, 1989

MAR - 8 1989

Mr. Kenneth W. Marschner
Bureau of Hazardous Waste
Waste Management Division
New Hampshire Department of Environmental Resources
6 Hazen Drive
Concord, New Hampshire 03301

RE: Recovered Solids Shipment -
Koppers Nashua, NH Site

Dear Mr. Marschner:

In accordance with your letter to me dated November 14, 1986, I hereby submit written notification of two shipments of recovered solids from Koppers site at Nashua, New Hampshire:

Shipment No. 1

On January 17, 1989, 76 drums of nonhazardous process waste containing recovered creosote were shipped to Koppers plant at Grenada, MS.


Shipment No. 2

On February 6, 1989, an additional 61 drums of nonhazardous process waste containing recovered creosote were shipped to Koppers plant at Grenada, MS.

Copies of applicable shipping documents are attached.

Should you have any questions, please call me.

Very truly yours,


W. Kuenzi, P.E.
Project Manager

WK:ss

Attachment

cc: Kevin Hopkins (w/o attachment)
Michael Sills (w/o attachment)

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Co INC.
Hills Perry Road
NASHUA, N.H. 03061

Mailing Address

Koppers Co INC
P.O. Box 3486
NASHUA, N.H.

03061

Phone: (603) 880-8345

Transporter Company Name

FRANKLIN PUMPING SERVICE INC.
P.O. Box 617
INDUSTRIAL ROAD
WRENTHAM, MA. 02093

Phone: (508) 384-6151

Designated Facility Name and Site Address

Koppers Co INC
TIE PLANT ROAD
TIE PLANT, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
NonHAZARDOUS process waste containing a. used creosote	76	DRUMS 17-H	76	40,000
b.				
c.				

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS SUBSTANCE, (solid) N.O.S. ORM-E

NA 9188 (contains creosote)

Special Handling Instructions gloves + goggles

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Paul S. Kilchenstein

Signature

Paul S. Kilchenstein

Month Day Year

10/11/78/91

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Ron McGRATH

Signature

Ron McGRATH

Month Day Year

10/11/78/91

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

GARY E. MCCLELLAND

Signature

Gary E. McClelland

Month Day Year

10/11/78/91

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No.

Carrier's No. 017909
Date 1-17-89

CARRIER: Franklin Pumping Service Inc. SCAC

TO: Consignee
Street
Destination

Koppers & Co.
Hills Ferry Road
Washua, NH

03061

Vehicle Number

[illegible]

9-BLS-A3
(Rev. 6/87)

**FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK,
FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT**

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Company INC
Hillsferry Road
NASHUA, N. H. 03061
Phone: (603) 880-8345

MAILING Address : Koppers Co INC
P.O. Box 3485
NASHUA, N. H.
03061-3485

Transporter Company Name

FRANKLIN PUMPING SERVICE INC.
P.O. Box 617
INDUSTRIAL ROAD
WRENTHAM, MA. 02093
Phone: (508) 384-6151

EPA ID # MAD0 84814136

Designated Facility Name and Site Address

Koppers Co INC
TIE PLANT ROAD
TIE PLANT, MS 38960
Phone: (601) 226-4584

EPA ID # MSD 007027543

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
a. Non HAZARDOUS process waste containing used creosote	61	DRUMS 17-H	61	Approx 30,000 lbs
b.				30,640 2-8-89 JTM
c.				

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS substance, (solid) N.O.S. ORM-E
NA-9188 (CONTAINS CREOSOTE)

Special Handling Instructions

When handling, wear protective equipment such as impervious gloves and eye protection NON-HAZARDOUS WASTE - For tracking purposes only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name	Signature	Month	Day	Year
Paul S. Kichenstein	<i>Paul S. Kichenstein</i>	10	20	68

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name	Signature	Month	Day	Year
RON McGRATH	<i>R McGrath</i>	10	20	68

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name	Signature	Month	Day	Year
GARY E. MCCLELLAND	<i>Gary E. McClelland</i>	10	20	88

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. _____

CARRIER: **Franklin Pumping Service, Inc.**

SCAC _____

Carrier's No. _____
Date **2-6-89**

TO: **Koppers Industries**
Consignee **Route 68**
Street **Tie-Plant, MS**
Destination _____ Zip _____

FROM: **Koppers Co.**
Shipper **Hills Ferry Road**
Street **Nashua, NH**
Origin _____ Zip **03061**

Route: _____

Vehicle
Number _____

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (if examples)
61	RQ	Hazardous Substance, Solid NOS (non-hazardous processed waste containing used creosote)	ORM-E	NA9188	30,000	P	

Remit C.O.D. to:

Address: _____

City: _____ State: _____ Zip: _____

COD

per quotation

Amt: \$ _____

C.O.D. FEE:

Prepaid ☐
Collect ☐ \$ _____

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the part of the shipper, the shipper shall sign the following statement:
(The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.)
(Signature of Consignor) _____

FREIGHT CHARGES

☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per Paul S. [Signature]

PLACARDS
REQUIRED

NO

PLACARDS
SUPPLIED

☐ YES ☒ NO - FURNISHED BY CARRIER

SHIPPER: **Koppers Company**

PER: Paul S. [Signature]

DATE: **2-6-89**

CARRIER: **Franklin Pumping Service, Inc.**

PER: _____

DATE: **2/6/89**



STATE OF NEW HAMPSHIRE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH SERVICES

M. Mary Mongan
Commissioner

William T. Wallace, Jr., M.D., M.P.H.
Director
Division of Public Health Services

Health & Welfare Bldg.
6 Hazen Drive
Concord, NH 03301-652608
Tel. (603) 271-

November 14, 1986

W. Kuenzi, P.E., Project Mgr.
Keystone Environmental Resources, Inc.
436 Seventh Ave, Suite 1940
Pittsburgh, PA 15219

Subject: Creosote Recovery, Koppers Co., Inc.

Dear Mr. Kuenzi,

With regard to your request dated November 3, 1986, the Division of Public Health Services, Office of Waste Management (Division) has reviewed the submitted information for compliance with the provisions of reuse. According to your letter, the recovered creosote will be used as an effective substitute for a commercial product (raw creosote). This use is compatible with the definition of reuse provided in the New Hampshire Hazardous Waste Rules, and as such, is exempt from the requirements of He-P 1905.06 - Standards for Generators. This determination is consistent with the Division's policy to encourage waste minimization programs.

The Division does, however, require written notification of each completed shipment. This notification shall include the details of transportation (date, destination, etc...) and a photocopy of the shipping document. In addition, please be advised that the transportation of creosote is regulated by 49 CFR. You may contact Jim Daley at 271-3349 with any questions regarding the shipment of hazardous materials within the state of New Hampshire.

Any additional questions may be directed to Kevin Hopkins at (603)271-4621.

Sincerely yours,

Kenneth W. Marschner, Chief
Bureau of Hazardous Waste Compliance
and Enforcement
Office of Waste Management
Division of Public Health Services

pc: Jim Daley, DOS
Michael Donahue, WSPCC
Michael Sills, WSPCC
Russ Nyelander, WSPCC

DB/RCRA/TW
6920j



"Reuse"
exemption



436 Seventh Avenue, Suite 1940, Pittsburgh, PA 15219

November 3, 1986

EXPRESS MAIL

RECEIVED

NOV 03 1986

Division of
Public Health Services
Bureau of Hazardous Waste

Mr. John Minichiello
Assistant Director
Division of Public Health Services
OFFICE OF WASTE MANAGEMENT
Health & Welfare Building
6 Hazen Drive
Concord, NH 03301

Dear Sir:

Keystone Environmental Resources is conducting an environmental site remediation for Koppers Company at Nashua, New Hampshire. This action is being taken pursuant to Administrative Order 2417 dated May 2, 1983 and subsequent remedial action approved by the Administrator, Hazardous Waste and Groundwater Protection Division of WS&PCC. The remedial activities include pumping of contaminated groundwater with treatment and recovery of recyclable product from the subsurface.


As required by the Administrative Order, a groundwater pumping and treating system has been installed at the site of this former wood treating plant. The pumped groundwater contains a recoverable creosote fraction (product) which will be removed from the water in the new treatment plant.

We have determined that this recovered creosote product will be suitable for reuse at an existing Koppers plant (probably in New Jersey). Analytical results of early sampling along with an AWWA product spec sheet are attached for your inspection. We expect that the product to be recovered will be quite similar to the analysis shown. For your information, we plan to accumulate product in batches of about 5,000 gallons and transport this creosote product via periodic tank truck shipment to another Koppers location for reuse. (Approximately one shipment per month).

We request that your office make a determination and classify this recovered material as product. This will allow the reuse of this recovered material which we believe will be in the best interests of all parties concerned. Provisions for this determination are permitted under 40 CFR 260.30 and The State of New Hampshire Hazardous Waste Rules 1905.03 (h).

A timely determination is requested as the ground water treatment system is currently undergoing final shakedown in preparation for "normal operations". Please contact me if we can be of assistance in expediting this request.

Very truly yours,


W. Kuenzi, P. E.
Project Manager

WK:m

Copies to:

Michael P. Donahue, Administrator

Michael Sills, WSPCC

Russell Nylander, WSPCC

Kevin Hopkins, OWM-DEPH

PRODUCT SPECS (ALL A)

LT 5.	(P1-75) GRADE I CREOSOTE	(P2-68 A) 80/120 SOLUTION	(P2-68 B) 70/30 SOLUTION	(P2-68 C) 60/40 SOLUTION	(P2-68 D) 50/50 SOLUTION	(P13-65) GRADE III CREOSOTE	SPECIAL OIL "A"	SP O. "
WATER by Vol.	1.5 MAX	3.0 MAX.	3.0 MAX.	3.0 MAX.	3.0 MAX.	1.5 MAX.	1.0 MAX.	1.0
AST (FC) by wt.	0.5 MAX	2.0 MAX	3.0 MAX.	3.5 MAX.	4.0 MAX.	0.5 MAX.	.05 MAX	
PC-R @ 35°	1.050 MIN	1.060 - 1.110	1.070 - 1.120	1.080 - 1.130	1.090 - 1.140	1.080 MIN.	1.070 MIN	1.0
DISTILLATION								
210°	2.0 MAX	5 MAX.	5 MAX.	5 MAX.	5 MAX.	2.0 MAX.	0	1
235	12.0 MAX	25 MAX.	25 MAX.	25 MAX.	25 MAX.	12.0 MAX.	0	1
270	10.0 - 35.0					20.0 - 40.0	13-30	5
315	40.0 - 65.0	36 MIN.	34 MIN.	32 MIN.	30 MIN.	45.0 - 65.0	46-59	15
355 RESIDUE by wt.	60.0 - 77.0	60 MIN.	56 MIN.	52 MIN.	48 MIN.	65.0 - 75.0	70-80	40
							20 - 30	52
REFRAC.								
35/315	1.027 MIN.	1.025 MIN.	1.025 MIN.	1.025 MIN.	1.025 MIN.	1.030 MIN.	1.025	
315/355	1.095 MIN.	1.065 MIN.	1.085 MIN.	1.085 MIN.	1.085 MIN.	1.105 MIN.		
Residue 355						1.160 MIN.		
WAX RESIDUE by wt.		5.0 MAX.	7.0 MAX.	9.0 MAX.	11.0 MAX.			

MC FADDEN

8-86

P.D. Sample No. 86-1098

SLUDGE SAMPLE

Date Rec'd. 7-7-86 Quantity 1-PT.

Hold Until

Originators Sample No.

Leads:

Received From: NASHUA, N.H. - JEFF SPENCER

For Reference:

Analysis:

H₂O 23.0

{ 600 GRAM SAMPLE DEHYDRATED }

SP. GR. AT 38° = 1.063

NAPH. 12.6

SP. GR. OF FRACTIONS:

ANTHRACENE 1.9

235/315 CUT = 1.020

315/355 CUT = 1.089

DISTILLATION

0-210 0.7

235 7.1

270 27.4

315 44.4

355 62.6

RESIDUE 36.8

Reference to
"Sludge"

LIMPID PT. = 25°

ASH = 0.15

XI = 1.12

Distribution

- ☐ Location Or Addressee
- ☐ Numerical File
- ☐
- ☐

Analyzed By:

G. Wall

Date

7/10

Approved By:

Title

Date

FILE 1: SUMMARY OF ANALYTICAL DATA

PRODUCED ON 08/06/86 AT 16:16 PAGE

SAMPLE: NN860375
COLLECTED: 07/07/86
RECEIVED: 07/07/86
SOURCE: 55 GALLON DRUM SLUDGE
DESCRIPTION: CREOSOTE SLUDGE

SAMPLE #	RSLT.LNE	SOURCE
NN860375	<i>mg/kg</i> PCP : 2.0	55G DR SLD

OF ENCOUNTERED - 20 RECORD(S) COPIED

COPY COMPLETE - 1 FILE(S) COPIED

ID
M -END OF TASK CODE= 0

MCFADED

6-19-85

P.D. SAMPLE NO.

85-1108

ON:

BOTTOM SLUDGE FROM NASHUA, N.H.

DATE REC'D.

6-19-85

QUANTITY

1.95

HOLD UNTIL

READS:

ORIGINATORS SAMPLE NO.

EIVED FROM:

JEFF SPENCER

TER REFERENCE:

LYSIS:

DIST

H₂O 1.2

0 - 210

6.7

235

7.8

270

27.1

SPGR @ 38° 1.064

315

43.2

355

62.8

RES. 355

35.2

SPGR FRACTIONS

XI 0.88

← Sludge

235 - 315 1.019

315 - 355 1.083

sent for analysis for accuracy
6-20-85

DISTRIBUTION

LOCATION of ADDRESSEE

NUMERICAL FILE

ANALYZED BY:

APPROVED BY:

TITLE

DATE

DATE



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



September 26, 1989

Mr. Matthew C. Plautz, P.E.
Program Manager
Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Application for Permit
Modification (Compliance
Monitoring) of Surface
Impoundment
Issuance of EPA Identification
Numbers

On May 3, 1989, Beazer Materials & Services, Inc. (BMS) notified the Mississippi Bureau of Pollution Control (MBPC) of potential groundwater contamination due to releases from the permitted surface impoundment. Pursuant to the conditions of the operating permit and in accordance with the Mississippi Hazardous Waste Management Regulations (MHWMR) 264.98(g), upon notification, the owner or operator must immediately sample the groundwater in all monitoring wells for the constituents listed in Appendix IX of Part 264; and submit, within 90 days, an application for permit modification to establish a compliance monitoring program in accordance with Part 264.99.

The MBPC has not received the application for permit modification, due on August 1, 1989. We request the application be submitted within ten (10) days, and are considering enforcement actions for the violation. Please be aware of the due date (October 30, 1989) for the feasibility plan for a corrective action program, MHWMR 264.98(g)(5).

On May 19, 1989, the MBPC issued a new EPA identification number (MSD985967066) to Koppers Industries, Inc. (KII). Since then, EPA has determined that KII should not receive a new I.D. number based on the definition of generation site and hazardous waste management facility found in 40 CFR Part 260.10 and Part 270.2, respectively. Specifically, EPA has determined that KII is the owner of each facility and both KII and BMS are the operators of each facility. KII and BMS will have the same I.D. number (MSD007027543), and need to submit amended Part A Permit Applications, for both the surface impoundment and the boiler ash landfill, showing their current status by October 26, 1989. Because both KII

and BMS are considered operators, BMS may continue to demonstrate financial responsibility at each facility. The revised 1988 financial documentation, submitted on August 30, 1989, has been reviewed by the MBPC and appears to be in order.

Enclosed is a more detailed explanation of EPA's position on receiving only one I.D. number, and a Part A Permit Application. Also enclosed is the report on the Comprehensive Groundwater Monitoring Evaluation (CME) conducted on May 18, 1989, by Mr. David Booth and Mr. Kaleel Rahaim. If you have any questions, feel free to contact me at (601) 961-5171.

Sincerely,

Gail Macalusa
Hazardous Waste Division

GM-1:lr

Enclosures

pc: Mr. James H. Scarbrough, EPA
Mr. James Batchelder, KII

Beazer



September 21, 1989

Mr. William Stephen Spengler, P.E.
Coordinator, RCRA TSD Branch
Hazardous Waste Division
Mississippi Department of
Natural Resources
2380 Highway 80 West
Jackson, MS 39309

Re: RCRA Issues
Koppers Industries, Inc.
Tie Plant, MS Facility

Dear Mr. Spengler:

I would like to take this opportunity to bring you up to date with several activities either underway or planned for the above referenced facility. The following constitutes a brief summary of these activities.

- o Surface Impoundment - The final cap components for closure of the surface impoundment are currently being placed. Closure activities were severely delayed by heavy rains in late spring/early summer and subsequently by the field contractor's ability to process the accumulated rainwater based on the City of Grenada POTW capacity and operating constraints. I have asked Keystone Environmental Resources (Keystone), our engineer on the project, to develop a history and will forward this to you upon completion.

We have not as yet received the Appendix IX results from the groundwater sampling round completed in June, 1989 and will submit those to you when available. At that time we will also submit a permit modification to initiate a compliance monitoring program, as necessary. A new upgradient monitoring well was installed in March, 1989.

- o Boiler Ash Landfarm - We are currently finalizing a construction bid package to initiate closure of the boiler ash landfarm in accordance with the approved closure plan. Closure will commence in the near future.

Mr. William Stephen Spengler, P.E.
September 21, 1989
Page 2

The Groundwater Quality Assessment is scheduled to begin in October, 1989 pending receipt of appropriate access agreements for construction of wells on off-site property locations.

As discussed above, we have not as yet received the Appendix IX results from the groundwater sampling round completed in June, 1989 and will submit those to you when available.

- o Groundwater Treatment Residuals - It has been recently brought to my attention that the following shipments of non-hazardous wastes were burned at the Grenada boiler (copies of shipping documents attached):

<u>Date</u>	<u>#Drums</u>
1/17/89	76
2/6/89	61

These manifests were included with the ones sent to Kalal (MBAC) on May 3, 1989. They were penalized for these

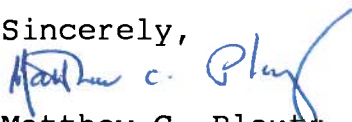
These wastes originated at a closed wood preserving site previously operated by Koppers Company, Inc. in Nashua, New Hampshire. Beazer Materials and Services, Inc. (BM&S) is conducting an environmental site remediation at the facility pursuant to an Administrative Order with the State of New Hampshire. The remediation program consists, in part, of pumping of contaminated groundwater and subsequent treatment in a groundwater treatment system. The groundwater treatment residuals generated from this system met the specifications for the boiler Fuel Additive Program and therefore were shipped to the Grenada boiler as detailed above. The characterization of these materials has been raised as an issue by the State of New Hampshire. BM&S has therefore decided to discontinue future shipments to Grenada. In any event, the materials in question were processed during the time frame in which BM&S and MSDNR were negotiating on Agreed Order (No. 1598-89) finalized on June 23, 1989 which resolved the oil/water separator characterization issue and obligated BM&S to assess the impacts, if any, from placing the boiler ash at the Grenada County Landfill.

wastes in the June 23, 1989 agreed order.

Mr. William Stephen Spengler, P.E.
September 21, 1989
Page 3

BM&S is making a concerted effort at being responsive to regulatory compliance issues at both the state and federal levels. If you should have any questions, please do not hesitate to call.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

cc: Gail Macalusa (MSDNR)
B. Nolan
S. Craig
D. Calland, Esquire (Babst/Calland)
J. Batchelder (KII)
J. D. Clayton (KII)

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Co INC.
Hillsberry Road
NASHUA, N.H. 03061

Mailing Address

Koppers Co INC
P.O. Box 3485
NASHUA, N.H.

03061

Phone: (603) 880-8345

Transporter Company Name

FRANKLIN PUMPING SERVICE INC.
P.O. Box 617
INDUSTRIAL ROAD
WRENTHAM, MA. 02093

Phone: (508) 384-6151

Designated Facility Name and Site Address

Koppers Co INC
TIE PLANT ROAD
TIE PLANT, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
NonHAZARDOUS process waste containing 2 used creosote	76	DRUMS 17-H	76	40,000
b.				
c.				

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS substance, (solid) N.O.S. ORM-E
NA 9188 (contains creosote)

Special Handling Instructions gloves + goggles

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

PAUL S. KILCHENSTEIN

Signature

Paul S. Kilchenstein

Month Day Year

01/17/89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

RON McGRATH

Signature

R. McGrath

Month Day Year

01/17/89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

GARY E. MCCLELLAND

Signature

Gary E. McClelland

Month Day Year

01/19/89

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Company INC
Hillsterry Road
NASHUA, N. H. 03061
Phone: (603) 880-8345

MAILING Address : Koppers Co INC
P.O. Box 3485 -
NASHUA, N. H.
03061-3485

Transporter Company Name

FRANKLIN PUMPING SERVICE INC.
P.O. Box 617
INDUSTRIAL ROAD
WRENTHAM, MA. 02093
Phone: (508) 384-6151

EPA ID # MADO 84814136

Designated Facility Name and Site Address

Koppers Co INC
TIE PLANT ROAD
TIE PLANT, MS 38960
Phone: (601) 226-4584

EPA ID # MSD 007027543

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
a. NONHAZARDOUS process waste CONTAINING used creosote	61	DRUMS 17-H	61	Approx 30,000 lbs
b.				30,640 2-8-89 ZM
c.				

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS substance, (solid) N.O.S. ORM-E
NA-9188 (CONTAINS CREOSOTE)

Special Handling Instructions

When handling, wear protective equipment such as impervious gloves and eye protection
NON-HAZARDOUS WASTE - For tracking purposes only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

Paul S. Kichenstein

Paul S. Kichenstein

02 06 89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

RON M^C GRATH

Ron McGrath

02 06 89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

GARY E. MCCLELLAND

Gary E. McClelland

02 08 89

ROUTING AND TRANSMITTAL

8/28/89

TO: (Name, office symbol, room number, building, Agency/Post)

Initials

Date

1. Sam Mabry, Mississippi

2.

3.

4.

5.

Action		File		Note and Return
Approval		For Clearance		Per Conversation
As Requested		For Correction		Prepare Reply
Circulate	xx	For Your Information		See Me
Comment		Investigate		Signature
Coordination		Justify		

REMARKS

Attached for your information is a letter, position paper and supporting documentation on issues of 2 EPA Identification Numbers for the same facility and demonstration of financial responsibility at these facilities.

If you have any questions, please contact Jeanneanne Gettle or me at EPA, Region IV, Atlanta, Georgia----404/347-7603, FTS 257-7603.



DO NOT use this form as a **RECORD** of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

J. R. Finney II, Financial Compliance Specialist
Waste Compliance Section, RCRA Branch
Waste Management Division, Region IV

Room No.—Bldg.

Phone No.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

JUN 25 1989

4WD-RCRA

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Billie Nolan
Beazer Materials and Services, Inc.
Law Department
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

RE: Issuance of EPA Identification Numbers

Dear Ms. Nolan:

This is in response to your June 20, 1989, letter to Mr. J.R. Finney which discussed the acquisition of Koppers Company, Inc., by Beazer Materials and Services, Inc. (BMS) and the subsequent sale of certain BMS assets to Koppers Industries, Inc. (KII). The assets sold to KII included facilities regulated under the Resource Conservation and Recovery Act (RCRA). Your letter proposed that at each of these RCRA facilities KII receive new EPA Identification Numbers. These new numbers would be associated with current and future operations at the facilities while BMS would retain each facility's current EPA Identification Number for use during closure and post-closure care.


After review of your proposal, EPA has determined that KII should not receive new Identification Numbers. This is based on the definition of generation site and hazardous waste management facility found in 40 C.F.R. Part 260.10 and Part 270.2, respectively. Specifically, EPA has determined that KII is the owner of each facility and both KII and BMS are the operators of each facility. Therefore, KII and BMS should submit amended Part A Permit Applications showing their current status. However, because both KII and BMS are considered operators, BMS may demonstrate financial responsibility at each facility.

See 270.40

If you have any questions regarding this decision, please contact Jeaneanne Gettle at (404) 347-7603.

Sincerely yours,

KII - owner I.D.
BMS & KII - owner & operators


James H. Scarbrough, P.E.
Chief, RCRA Branch
Waste Management Division

cc: State Directors

REGION IV POSITION PAPER
ISSUANCE OF MORE THAN ONE EPA
IDENTIFICATION NUMBER AT A FACILITY

The purpose of this paper is to establish the position that each facility subject to regulation under the Resource Conservation and Recovery Act (RCRA), receive only one EPA Identification Number, regardless of whether the facility is owned and operated by one or more companies.

RECOMMENDATION: Each facility subject to RCRA regulation should receive only one EPA Identification Number for the operational facility, regardless of ownership or operational control.

BACKGROUND: Recently EPA Region IV received a proposal from Beazer Materials and Services, Inc. (BMS) in which they proposed that each RCRA facility acquired by BMS through a takeover of Koppers Co., Inc. (Koppers), then subsequently sold to Koppers Industries, Inc. (KII), be given two EPA Identification Numbers. One number would be issued to KII and one to BMS. BMS bases their proposal on a contractual agreement which BMS and KII entered into at the time of the sale. This proposal includes a number of facilities within Region IV. A more detailed breakdown of the corporate transactions and proposal is attached.

BASIS: In F.R. 33069, May 19, 1980, EPA stated that the plant, not the parent company, is the generator as defined in 40 C.F.R. Part 260.10. Specifically the regulations define generator as "...any person, by site..."

40 C.F.R. Part 270.2 defines Hazardous Waste Management Facility as "... all contiguous land, and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste." The BMS proposal seeks to remove portions of facilities (the process areas) which operated as one Hazardous Waste Management Facility and provide them with new ID numbers. These new facilities would only be generators and therefore not subject to the permitting requirements.

40 C.F.R. Part 260.10 defines individual generation site as "... contiguous site..." which "...may have one or more sources of hazardous waste but is considered a single generation site if the site or property is contiguous." The KII properties are contiguous and therefore single generation sites, regardless of whether the wastes generated come from KII's operation of the process areas or from BMS' operation and closure of the RCRA regulated units.

BMS is an operator as defined in 40 C.F.R. Part 260.10 in that they will be the person responsible for the operation of the facilities.

KII is an owner as defined in 40 C.F.R. Part 260.10 in that they are the person who owns the facilities. In addition KII may be an operator of the RCRA facilities if they undertake operational or maintenance activities at the RCRA facilities. The BMS proposal does not address corrective action at these facilities, it merely provides for

post-closure care, therefore KII may be required along with BMS to address corrective action at each site.

Process areas are generally considered to contain several Solid Waste Management Areas.

The corrective action authority under 3008(h) provides for corrective action at facilities which were subject to interim status. This authority includes facilities, subject to the interim status provisions which have not received final administrative disposition of their permit (ie. a final RCRA permit or denial of a final RCRA permit). Establishing process areas as separate generators would render those facilities no longer subject to the interim status requirements and therefore remove the Agency's ability to potentially seek corrective action pursuant to 3008(h) for the entire property.

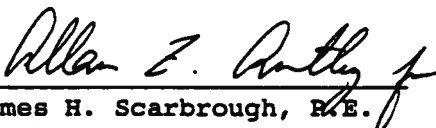
The corrective action authority under 3004(u) and (v) provides for corrective action at permitted facilities. If the process areas are not required to seek permits as generators, then the authority under 3004(u) and (v) may not be used to require corrective action.

Issuance of one ID number to these facilities is consistent with EPA's handling of Government Owned/Contractor Operated (GOCO) facilities. GOCO's receive only one ID number regardless of the number of different operators at the site.

Alabama and Kentucky have also determined that one ID number is appropriate at these facilities. Mississippi, however, has issued two ID numbers to the site in Grenada, Mississippi.

CONCLUSION: BMS and KII should submit amended Part A permit applications naming KII as the owner of each facility and BMS and KII as the operators of each facility. This will be consistent with the regulations and definitions in 40 C.F.R. and will ensure that the Agency may require corrective action for all solid waste management units at the facilities in question.

CONCURRENCE:


James H. Scarbrough, R.E.
Chief, RCRA Branch
Waste Management Division



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

MEMORANDUM

DATE: July 6, 1989

SUBJECT: Beazer Proposal on Financial Responsibility at Koppers
Sites

FROM: J. R. Finney II, Financial Compliance Specialist
Waste Compliance Section

TO: Jeanneanne Gettle, Environmental Engineer
West Unit, Waste Compliance Section

THRU: Allan Antley, Chief
Waste Compliance Section

Attached is a outline of the Beazer proposal which I hope simplified the events involving Koppers and Beazer. You already have a copy of the complete Beazer proposal.

I have no problem based on the facts presented in the attached materials, of letting Beazer Materials & Services provide financial responsibility for closure, post-closure and corrective actions if necessary at the KII TSDF sites and also with Beazer being identified as the operator of these sites. However, this opinion is contingent on the resolution of the issues involving the possible issuance of two EPA Identification Numbers as requested and outlined.

The issues raised in Beazers' proposal are very similar to some of the ones you work on with Ecambia. Therefore please provide the technical arguments for and/or against the attached Beazer proposal.

I have tentatively scheduled a meeting with WCS state coordinators in those states involved and other interested parties for Tuesday, July 11, 1989, at 9:30 in the RCRA Branch Conference Room for discussion of these issues. Bob Kaplan of ORC will be there to discuss with us a legal advisory opinion on the Beazer proposal.

If you have any questions, please contact me at 7603.

Attachments

OUTLINE OF BEAZER PROPOSAL

11/14/88 BNS Aquisitions, Inc. (an indirect wholly-owned subsidiary of Beazer) completed a hostile take-over of Koppers Company, Inc., when it acquired 90% of Koppers stock.

1/20/89 BNS Aquisition, Inc. merged with Koppers Company, Inc. to become Kopper Company, Inc. (now a wholly-owned subsidiary of the BEAZER Group).

The reasons for the hostile takeover was so that Beazer could acquire the stone quarries, asphalt plants, cement kilns, etc of the original Koppers Company, Inc. Beazer had no interest in the retaining or maintaining the chemical operations (coke, tar and wood products sector)

12/28/88 All the assets of the chemical operations and the Koppers name were sold to the former management of the Kopper Company, Inc. The new chemical companys' name became Koppers Industries, Inc. (KII)

1/26/89 Following the sale of the chemical operations, Koppers Company, Inc., formerly BNS Aquisitions, became Beazer Materials and Services, Inc. (BM&S)

In order to effectuate the sale of the chemical operations from BM&S to KII, BM&S agreed to retain responsibility for environmental matters although KII now owns the facilities.

KII will operate as a 90 day generator only at the chemical operations facilities.

BM&S' request is that BM&S be allowed to satisfy the financial assurance for the financial responsibility for KIIs' facilities and be identified as the operator of those facilities.

In addition, BM&S also proposes that the existing EPA Identification (I.D.) Number be retained by BM&S as the operator, since BM&S will likely be generating waste for which it will be responsible.

BM&S further proposes that KII be issued a new EPA I. D. number as during the same time BM&S is doing closure, post-closure and corrective action, if needed, KII will be generating waste from its continuing coke, tar and/or wood treating operations for which it will be responsible as a 90 day generator.

BM&S rationalizes that it is in the interest of EPA and all parties concerned that the waste generated be properly identified so that responsible parties can be identified in the future if necessary.

BM&S additionally proposes that the only other workable solution to their "unique" situation is that KII receive the existing EPA I.D. number and BM&S request an emergency EPA I.D. number each time it generates waste during closure activities. This, of course, would result in a multiple of EPA I. D. Numbers being associated with the KII facilities.

Upon the advice of someone at Region IV (I have yet to find out who) MSDNR issued new EPA I. D. Number to KII to operate as a 90 day generator at the Grenada, MS facility while BM&S retains the original EPA I. D. number to doing closure activities with.



Jill M. Blundon
General Counsel
Thomas Burgunder
Thomas F. Reid
George Carroll
Mary Dombrowski Wright
Billie Schrecker Nolan
William F. Giarla
Babette Magee
James B. Springfield
Real Estate Manager

June 20, 1989

FEDERAL EXPRESS

J. R. Finney II
United States Environmental
Protection Agency - Region IV
345 Courtland Street, N.E.
Atlanta, GA 30365

Re: Financial Assurance for
Koppers Industries, Inc.,
Woodward, Alabama Tar and
Coke and Montgomery, Alabama
Treated Wood Facilities

RECEIVED
EPA/REGION IV
JUN 21 3 00 PM '89
COMMUNICATIONS SECTION

Dear Mr. Finney:

This letter is sent in response to your request at our meeting in Montgomery, Alabama on June 9, 1989 that I summarize in writing the recent history surrounding the change in ownership of Koppers Company, Inc. and certain of its coke, tar and wood products sector plants, as well as outline our proposal regarding financial assurance, EPA identification numbers and permit transfers for these same facilities. Although these questions arose in the context of only the above-referenced facilities, this same proposal is made with respect to the other coke, tar and wood products sector plants formerly owned by Koppers Company, Inc. including Gainesville, Florida; Florence, South Carolina; Guthrie, Kentucky; and Grenada, Mississippi located within U. S. EPA Region IV.

As of June 16, 1988, BNS Acquisitions, Inc., an indirect wholly-owned subsidiary of Beazer PLC, acquired more than 90% of the outstanding common stock of Koppers Company, Inc. On November 14, 1988, BNS Acquisitions, Inc. acquired the balance of the shares and, on January 20, 1989, BNS Acquisitions, Inc. merged into Koppers Company, Inc., with Koppers Company, Inc. being the surviving corporation. Koppers Company, Inc. thereby became an indirect wholly-owned subsidiary of Beazer PLC.

After acquiring more than 90% of the stock of Koppers Company, Inc., the new owners made the decision to sell all

J. R. Finney, II

June 20, 1989

2.

the chemical operations, including the coke, tar and wood products sector, and retain only the aggregates operations (stone quarries, asphalt plants, cement kilns, etc.) of Koppers Company, Inc. On December 28, 1988, all the assets of the coke, tar and wood products sector, including the "Koppers" name, was sold to a new company called "Koppers Industries, Inc." Koppers Industries, Inc. was formed by the former management of the Koppers Company, Inc. coke, tar and wood products sector management. Following this sale, the name of Koppers Company, Inc. was changed to Beazer Materials and Services, Inc. (BM&S) on January 26, 1989.

Under the terms of the sale, BM&S agreed to retain responsibility for certain environmental matters relating to pre-closing operations. For example, Koppers Industries, Inc. no longer uses the surface impoundments at the treated wood facilities and these units are undergoing RCRA closure. BM&S has agreed to remain responsible for the completion of these closures and, if necessary, post-closure activities. In addition, Koppers Industries, Inc. will be a generator only at most of these locations and will only accumulate hazardous waste for less than 90 days. This will necessitate the closure of a number of greater than 90 day storage facilities for which BM&S has agreed to retain responsibility.

Based upon the foregoing, BM&S has proposed that revised Part A's be submitted to reflect that BM&S is the "operator" of facilities undergoing closure and Koppers Industries Inc. is the "owner". As in the circumstances where a facility is leased by one company from another and operated by the lessee, BM&S, as the operator, will satisfy the financial assurance requirements for these facilities. Since the financial assurance requirements provide that either the owner or the operator may provide financial assurance, I believe that BM&S may properly do so, so long as BM&S is identified as the "operator" of the RCRA unit in question in the revised Part A.

In addition, BM&S also proposes that, at each plant, the existing EPA identification number be retained by it and that a new EPA identification number be issued to Koppers Industries, Inc. During the above-mentioned closure activities, BM&S will likely be generating wastes for which it will be responsible. During the same period of time, however, Koppers Industries, Inc. will be generating wastes from its continuing coke, tar or wood treating operations

J. R. Finney, II
June 20, 1989
3.

for which it will be responsible. It is in the interest of all parties, including U. S. EPA, that the entity responsible for the waste generated be properly identified so that each party may be held responsible for its waste at some future point in time, if necessary. This will not be the case unless two EPA identification numbers are issued.


The only other option would be for BM&S to transfer the existing EPA identification number to Koppers Industries, Inc. Then, BM&S would request an emergency EPA identification number each time it generated wastes during closure activities at each facility. This would result in not just two numbers being associated with a given location, but potentially a multitude of numbers being associated with one location. This result does not seem preferable.

Attached for your information is a copy of a new EPA identification number issued by the Mississippi Department of Natural Resources on May 19, 1989. Upon our inquiry, MDNR indicated that the new number was issued with the authority of Region IV and based upon the existence of two different companies with two different headquarters' addresses. If two different addresses are necessary for the issuance of two identification numbers, we can either use the two different headquarters' addresses or we can use the street address and a post office box for each location. We are open to your suggestions on how best to proceed.

Please consider the proposals contained herein and advise us of your comments and/or suggestions at your earliest convenience. If you have any additional questions, please do not hesitate to call me at (412) 227-2515.

We are grateful that you were able to attend the meeting in Montgomery to discuss this matter and we thank you for your assistance.

Very truly yours,


Billie S. Nolan

BSN/baw

Enc.

cc: John Narramore
J. Batchelder
G. Edwards



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



May 19, 1989

Mr. J. D. Clayton, Plant Manager
Koppers Industries, Inc.
P.O. Box 160
Ile Plant, Mississippi 38960

Dear Mr. Clayton:

Attached please find a photocopy of the Notification of Hazardous Waste Activity form for your facility. The assigned Environmental Protection Agency I.D. number MSD 985967066 should be used on all manifested shipments of hazardous waste and on all correspondence regarding hazardous waste.

If we may be of further assistance, please feel free to contact us.

Sincerely,

Lori Richards
Lori Richards, Secretary
Hazardous Waste Division

Attachment

cc: B. N. L. L. L.
K-1401

United States Environmental Protection Agency
Washington, DC 20460

Notification of Hazardous Waste Activity

Please refer to the instructions for
Filing Notification before completing
this form. The information requested
here is required by law (Section
3010 of the Resource Conservation
and Recovery Act).

For Official Use Only

Comments

Installation's EPA ID Number

Approved

Date Received
(yr. mo. day)C43
Grenada

I. Name of Installation

K O P P E R S I N D U S T R I E S I N C

II. Installation Mailing Address

Street or P.O. Box

P O B O X 1 6 0

City or Town

State

ZIP Code

T I E P L A N T

M S 3 8 9 6 0

III. Location of Installation

Street or Route Number

T I E P L A N T R O A D

City or Town

State

ZIP Code

T I E P L A N T

M S 3 8 9 6 0

IV. Installation Contact

Name and Title (last, first, and job title)

Phone Number (area code and number)

C L A Y T O N J D P L T M G R

6 0 1 2 2 6 4 5 8 4

V. Ownership

A. Name of Installation's Legal Owner

B. Type of Ownership (enter code)

K O P P E R S I N D U S T R I E S I N C P

VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity

B. Used Oil Fuel Activities

- ☒ 1a. Generator ☐ 1b. Less than 1,000 kg/mo.
- ☐ 2. Transporter
- ☐ 3. Treater/Storer/Disposer
- ☐ 4. Underground Injection
- ☐ 5. Market or Burn Hazardous Waste Fuel.
(enter 'X' and mark appropriate boxes below)
- ☐ a. Generator Marketing to Burner
- ☐ b. Other Marketer
- ☐ c. Burner

- ☐ 6. Off-Specification Used Oil Fuel
(enter 'X' and mark appropriate boxes below)
- ☐ a. Generator Marketing to Burner
- ☐ b. Other Marketer
- ☐ c. Burner
- ☐ 7. Specification Used Oil Fuel Marketer (or On site Burner)
Who First Claims the Oil Meets the Specification

VII. Waste Fuel Burning: Type of Combustion Device (enter 'X' in all appropriate boxes to indicate type of combustion devices) in
which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)☐ A. Utility Boiler☐ B. Industrial Boiler☐ C. Industrial Furnace

VIII. Mode of Transportation (transporters only — enter 'X' in the appropriate box(es))

☐ A. Air ☐ B. Rail ☐ C. Highway ☐ D. Water ☐ E. Other (specify)

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent
notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.☒ A. First Notification ☐ B. Subsequent Notification (complete item C)

C. Installation's EPA ID Number

ID — For Official Use Only												
C											T/A	C
W												1

K. Description of Hazardous Wastes (continued from front)

1. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
7	8	9	10	11	12

2. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
K-001					
19	20	21	22	23	24
25	26	27	28	29	30

3. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
U-051	-				
37	38	39	40	41	42
43	44	45	46	47	48

4. Listed Infectious Wastes. Enter the four-digit number from 40 CFR Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

5. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.21 — 261.24)

☐ 1. Ignitable
(D001)

☐ 2. Corrosive
(D002)

☐ 3. Reactive
(D003)

☐ 4. Toxic
(D000)

L. Certification

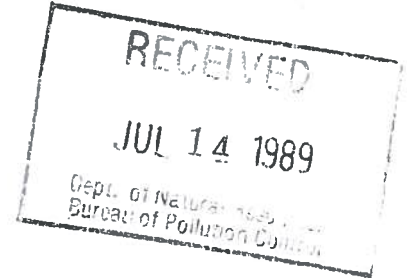
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true,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

Signature 	Name and Official Title (type or print) J. R. Batchelder Vice President	Date Signed 4/1/89
--	---	-----------------------



COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

July 7, 1989



Russell S. Vorpe, Supervisor
Claims Management
Environmental Department
Beazer Materials and Services, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219

DIVISION OF SOLID WASTE

REVIEWED BY W/C

DATE 7/18/89

COMMENTS Copy already sent to EPA by Author

RE: Koppers Company, Inc.--Todd County
KYD-006-383-392
Financial Assurance for Closure, Post-Closure
and Liability and Approval of the Part A
Pending File #89-377

Dear Mr. Vorpe:

The Kentucky Division of Waste Management
Financial Officer to Demonstrate Both Liability
closure Care submitted with your letter of May
35:090, 35:100, 35:110, and 35:120, the final
following reasons:

- (1) The wording of the instrument specified in 401 KAR 34:162. No In several places additional wording
- (2) On schedule 1, the correct name of recent Part A on file with this agency the name of this facility as Koppers
- (3) The current closure cost estimate (for inflation) is \$108,665. Thus, Schedule 1 is inadequate.
- (4) On Schedule 1, the \$95,780 post-closure (1988 and adjusted for inflation) has
- (5) Changes in ownership or operations be made in accordance with 401 KAR new owner or operator must comply (6) months of the change. You have change, therefore, coverage must be 31, 1988.

*- Call Matt Plauty re this -
- not in - 7/21/89
- Check on start time
for close @ S.I.*

*Letter to Plauty @ Beazer
Hold off on further review
until GWQA is developed
and submitted so that
it may be included in
the application*

*Done
7/21/89
W/C*

220-14(G)

- (6) The sum of current closure and post-closure estimates from the five schedules appears to be \$24,480,370. This figure is less than the amount identified in line 1 of Alternative II.
- (7) The Independent Auditor's Report and the Consolidated Financial Statements were not provided for Beazer Materials and Services, Inc. The items which were submitted are invalid for use. The financial test mechanism and supporting documentation must reflect the financial status of either the facility owner or the facility operator. The most recent Part A permit application on file (received 2-21-89) states that Koppers Industries, Inc. is the new owner and Beazer Materials and Services, Inc. is the new operator.
- (8) The closure cost estimates for at least the following facilities are not accurate according to the respective state agencies:

CAD-004-937-793 Commerce Plant
CAD-009-112-087 Feather River Plant
CAD-073-568-677 Fontana Plant
CAD-087-163-267 Oxnard Plant
WVD-004-336-749 Follansbee Plant
WVD-003-080-959 Green Spring Plant
MSD-007-027-543 Grenada Plant
ALD-004-009-403 Montgomery Plant
ALD-000-771-949 Woodward Coke Plant
ALD-085-765-808 Woodward Tar Plant
NJD-002-149-789 Newark Plant
IND-000-781-609 Valparaiso Plant
SCD-003-353-026 Florence Plant (omitted entirely)

These errors amount to at least an additional \$5,295,552 in closure and post-closure assurance which should have been reported on the financial test. It was noted that cost estimates from Alabama, Colorado, Florida, Georgia, Ohio, Pennsylvania, Texas, and Wisconsin were not adjusted for inflation as required by state and federal regulations, making the total error greater.

It is also noted that the letter dated February 20, 1989 (from Gary E. Edwards, Keystone Environmental Services, Incorporated), a letter dated December 28, 1988 from Jill M. Blundon, and your letter of March 15, 1989 identify different dates and company names for the ownership and operational control changes. Changes in ownership or operational control are required to be documented in accordance with 401 KAR 38:020, Section 3(4), ninety (90) days prior to the change via submittal of a revised Part A application. It is apparent that BNS Acquisitions was in violation of this provision on April 3, 1988. Subsequently, Koppers Industries, Inc. was in violation of this provision on October 2, 1988. In addition, Beazer Materials and Services was in violation of this provision on September 28, 1988. The merged companies of BNS Acquisitions and "Koppers" which was not identified with a more specific name was in violation of this provision on September 22, 1988. Please provide a detailed accurate statement of these changes with your resubmittal, and verify with which company(ies) financial obligations rested.

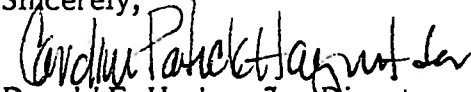
Finally, the regulations at 401 KAR 35:090, Section 7 and 401 KAR 35:120, Section 6 require the owner/operator to submit alternate financial assurance within ninety days of the date when the owner/operator discovers he can no longer meet the financial test. From your letters it is unclear whether the financial test submitted by Koppers for 1988 coverage was valid after June 30, 1988 (i.e., whether Koppers Company, Inc. existed as an entity

financially). Due to the June 30, 1988 end of the fiscal year, it may be necessary for BNS Aquisitions to demonstrate financial assurance retroactive to September 28, 1988 (versus the December 31, 1988 deadline).

Despite the numerous inconsistencies and apparent violations of Kentucky regulations, the Part A submitted on February 21, 1989 is hereby approved with the change in ownership from Koppers Company, Inc. to Koppers Industries, Inc. and the change in operational control from Koppers Company, Inc. to Beazer Materials and Services, Inc. It is noted that approval of the February 21, 1989 Part A submittal does not waive this agency's right to enforcement action for any and all violations of the state regulations. The approval is being issued because it appears that the Part A reflects your company's current status.

The Kentucky Division of Waste Management with this letter formally notifies Beazer Materials and Services and Koppers Industries, Inc. in accordance with 401 KAR 35:090, Section 7(8) and 401 KAR 35:120, Section 6(7) that because of the numerous deficiencies on the financial test submittal, the use of a financial test mechanism is hereby disallowed and an alternate financial instrument must be submitted by August 7, 1989 to cover closure, post-closure and liability assurance. Financial regulations and a packet of financial forms are enclosed for your use. Please contact Abbie Meyer at (502) 564-6716, if you have questions concerning the financial requirements for hazardous waste facilities.

Sincerely,



Donald F. Harker, Jr., Director
Division of Waste Management

Enclosures: DEP-6035 (all)
1988 Financial Regulations

cc: Abbie Meyer
Dennis Conniff, Department of Law
Madisonville Regional Office
Central File: Koppers Company, Inc.
State Agency Contacts: Alabama
Arkansas
California
Colorado
Florida
Georgia
Hawaii
Illinois
Indiana
Missouri
Mississippi
New Jersey
Pennsylvania
Ohio
South Carolina
Texas
Virginia
West Virginia
Wisconsin

J. R. Finney, II, Financial Compliance Specialist, US EPA-Region IV, 345 Courtland Street, Atlanta, Georgia 30365

Permit Modification

Koppers Company, Inc.
Tie Plant, Mississippi
MSD007027543

1. Minor Modification - Change in Name - Permit #88-543-01
2. On February 13, 1989, Beazer Materials & Services, Inc. requested the modification
3. The grant for the modification has been held up pending completion of all required documentation, approval of modified plans and resubmittal of updated financial assurance.
4. Current Hazardous Waste Management Unit status at the facility includes:
 - a. Surface Impoundment - In the closure process under an approved, modified closure plan, an approved post closure plan is in the permit.
 - b. Boiler Ash Landfill - Closure to commence shortly under an approved interim status closure plan - Part B application submitted for post closure care on the unit is being held until completion of the Groundwater Quality Assessment Program.
 - c. Less than 90 day drum storage area to be the responsibility of Koppers Industries, Inc.
5. Beazer will maintain operator status on Surface Impoundment and Boiler Ash Landfill, Koppers Industries, Inc. will be a generator only with a less than 90 day storage area.

ADEM

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



Guy Hunt
Governor

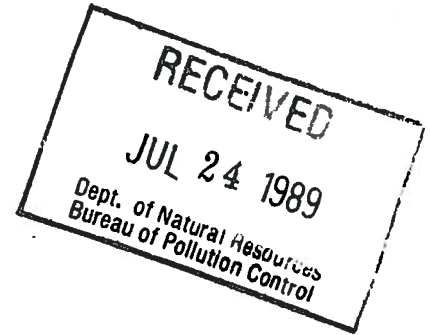
Leigh Pegues, Director

July 19, 1989

1751 Cong. W. L.
Dickinson Drive
Montgomery, AL
36130
205/271-7700

**CERTIFIED MAIL P 966 408 585
RETURN RECEIPT REQUESTED**

Mr. J.R. Batchelder
Vice President and Manager
Environmental and Technical
Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219



Field Offices:

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

RE: Financial Assurance for Koppers Industries, Inc.
ALD 004 009 403; ALD 085 765 808; ALD 000 771 949
Warning Letter

P.O. Box 953
Decatur, AL
35602
205/353-1713

Dear Mr. Batchelder:

2204 Perimeter Road
Mobile, AL
36615
205/479-2336

The Alabama Department of Environmental Management (ADEM) has reviewed the June 20, 1989 proposal for demonstrating financial assurance on behalf of Koppers Industries, Inc., at the above referenced Alabama facilities submitted by Beazer Materials and Services, Inc. (BM&S). Although Beazer's proposal was submitted to the Environmental Protection Agency, Region IV, you should be aware that all financial mechanisms must be approved by this Department, since Alabama is an authorized state.

You are hereby notified that Beazer's proposal for demonstrating financial assurance does not meet the requirements of the ADEM Administrative Code, Division 14. Since there are several issues involved, comments will be addressed according to the specific areas of concern.

1. Beazer cannot be identified as the "operator" of the RCRA units with Koppers Industries, Inc. (KII) as "owner" as proposed. It is correct that either an owner or operator of a facility may furnish financial assurance at a facility; however, the definition of both owner and operator applies to the entire facility, not certain regulated units. In this case, KII, as owner of these facilities including all RCRA units, is therefore responsible for demonstrating financial assurance. The following definitions from the ADEM Administrative Code, Division 14, support this decision:

"FACILITY" means all contiguous land and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste. A facility may consist of several treatment, storage, or disposal operational units (e.g. one or more landfills, surface impoundments, or combinations of them).

"FACILITY OWNER" means a person who owns a facility. In most cases, this will be the "operator" or the "owner".

"OPERATOR" means the person responsible for the overall operation of a facility.

"OWNER" means the person who owns in fee simple the property on which a facility or part of a facility is sited.

"HAZARDOUS WASTE MANAGEMENT UNIT" is a contiguous area of land on or in which hazardous waste is placed, or the largest area in which there is significant likelihood of mixing hazardous waste constituents in the same area. (Examples of hazardous waste management units include a surface impoundment, a waste pile, a land treatment area, a landfill cell, an incinerator, a tank and its associated piping and underlying containment system, and a container storage area. A container alone does not constitute a unit; the unit includes containers and the land or pad upon which they are placed.)

2. USEPA Identification numbers are site specific and apply to the entire facility, not to certain RCRA units; therefore, new identification numbers for BM&S, as operator of specific RCRA units located on KII facilities, will not be allowed. BM&S does not qualify as "operator" for the reasons given in Comment No.1.

3. Beazer also cites another option, that of requesting an "emergency EPA identification number each time it generates wastes during closure activities at each facility." This option is not acceptable. In Alabama, emergency identification numbers are issued only in case of a one-time disposal of waste or an emergency spill cleanup, not for on-going closure activities.

Additionally, the following deficiencies were found during a review of the financial test submitted by Beazer, on behalf of Koppers Industries:

- A. Rule 335-14-6-.08(4)(e); Rule 335-14-6-.08(6)(e)
Rule 335-14-5-.08(12)(g)

The financial test contains numerous wording changes and does not use the current wording as specified in the ADEM Administrative Code.

- B. Rule 335-14-6-.08(3); Rule 335-14-6-.08(5)

The cost estimates do not reflect the current closure/post-closure status of the Alabama facilities. Additionally, the total of the cost estimates in Attachment A of the test (\$24,480,370.00) is lower than the estimate given in the test (\$26,735,542.00).

C. Rule 335-14-6-.08(3)(b); Rule 335-14-6-.08(5)(b)

There is no evidence of adjustments for inflation in the cost estimates given. Inflation adjustments must be made in accordance with this rule during the active life of the facility.

D. Rule 335-14-8-.07(30)(d)

A revised Part A was not submitted at least 90 days prior to the change in ownership as required by this rule. Subsequent notifications of hazardous waste activity, EPA Form 8700-12, have not been submitted to reflect the change in activity at these facilities. The appropriate forms to make these changes were enclosed in our letter of February 9, 1989 to Ms. Jill M. Blundon, Beazer General Counsel.

Additionally, contact with regulatory agencies in several other states reveals inaccurate cost estimates for facilities located in those states. Note 10 to the Consolidated Financial Statements indicates that as of June 30, 1989, BNS Acquisitions had an accrued liability of approximately \$248 million for environmental liability costs, but states that these costs could be at least twice that amount. Considering the numerous deficiencies and inconsistencies in the data submitted to date, this Department is very concerned about Beazer's ability to consistently pass the financial test, especially if liabilities increase significantly as environmental costs rise. Based on the deficiencies listed above, use of this financial test will not be allowed.

In summary, Koppers Industries, Inc., remains responsible for the demonstration of financial assurance at all Alabama locations. Compliance with Alabama's financial requirements must be in strict accordance with the ADEM Administrative Code, Division 14, for these facilities. Rule 335-14-8-.07(3)(d) of the ADEM Administrative Code requires a new owner or operator to demonstrate financial assurance within six months of the date of change on ownership. Our records indicate this date to be December 28, 1988; therefore, the due date for demonstration of financial assurance was June 30, 1989. Since Beazer's proposal for demonstrating financial assurance on behalf of Koppers Industries, Inc., was under evaluation on that date, Koppers Industries, Inc., will be granted an extension for compliance with the financial requirements until August 31, 1989.

This extension does not alleviate Koppers Industries, Inc., of any other deadlines established by ongoing enforcement or permit actions. Additionally, Koppers Industries, Inc., must submit the required notification (Revised Part A and Notification of Hazardous Waste Activity, EPA Form 8700-12) within fifteen (15) days of your receipt of this letter. Failure to comply with these requirements will result in enforcement action being taken by this Department.

Contact me at (205) 271-7726 if there are questions.

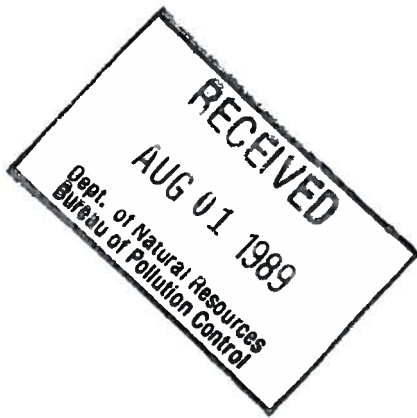
Sincerely,


John W. Narramore, Chief
Special Services Section
Land Division

JWN/kap

C: Ron Farley, ADEM Division of General Counsel
James Scarbrough, USEPA Region IV
Billie S. Nolan, Beazer Materials & Services
Gary Edwards, Keystone Environmental
State Contacts: Arkansas, California, Colorado, Florida, Georgia
Hawaii, Illinois, Indiana, Kentucky, Missouri, Mississippi, New
Jersey, Pennsylvania, Ohio, South Carolina, Texas, Virginia,
West Virginia, Wisconsin

Beazer Materials and Service Inc.
A Member of THE BEAZER GROUP
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



July 28, 1989

CERTIFIED MAIL
RETURN RECEIPT
REQUESTED

Mr. Charles H. Chisolm
Bureau Director
Mississippi Department of
Natural Resources
Bureau of Pollution Control
Post Office Box 10385
Jackson, MI 39289-0385

Re: Administrative Order No. 1598-89

Dear Mr. Chisolm:

Enclosed please find a Certified Check (No. 415104) in the amount of \$41,387 payable to the MSDNR as required as a condition agreed upon in the executed Administrative Order No. 1598-89.

Please call if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "David R. Kerdner for".

Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr
Enclosure

cc: R. Hamilton
B. Nolan
J. Blundon
J. D. Clayton (KII)
J. Batchelder (KII)

DIVISION OF SOLID WASTE
REVIEWED BY WSS
8/15/89
sent to EPA 8/15

BEAZER MATERIALS & SERVICES, INC.

#012

CERTIFIED

154
No. 154

Pay to the order of
Beazer Materials & Services, Inc.
103 STEEL PLAZA OFFICE 103

\$ 41,387.00

Authorized Signature

DO NOT DESTROY THIS CHECK

Department of Natural Resources
Forty-one thousand three hundred eighty-seven and 00/100

Dollars

\$ 41,387.00

July 28 1989 8-26/430

Mellon Bank
Pittsburgh, PA

1094

* 00130002511 97 240 Dean McAllister

REVIEWED BY
8/15/89
EPA 8/15/89



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



July 24, 1989

FILE COPY

Mr. Matthew C. Plautz
Program Manager - Environmental Services
Beazer Materials and Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Review of Part B Application
for Post Closure - Boiler Ash
Landfill - Beazer Materials &
Services, Inc., Grenada,
Mississippi - MSD007027543

The Mississippi Bureau of Pollution Control will suspend review of the document entitled "Post Closure Care Permit Application - Ash Pile Disposal Site" dated November, 1988, pending outcome of the Groundwater Quality Assessment. Upon review of results from that assessment, further determination of document completeness and drafting of a hazardous waste management permit for that unit will continue.

Should you have additional questions or comments, please contact Mr. Steve Spengler at (601) 961-5171.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kaleel Rahaim".

Kaleel Rahaim
Hazardous Waste Division

KR:lr

cc: Mr. James H. Scarbrough, EPA



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



July 21, 1989

Mr. Matthew C. Plautz, P.E.
Program Manager - Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Proposed Work Plan - GWQAP -
Boiler Ash Landfill, Beazer
Materials & Services, Inc.,
Grenada, Mississippi -
MSD007027543

We have reviewed the "Draft Proposed Work Plan - Groundwater Quality Assessment" (GWQAP) for the above referenced area. We find this document to be an acceptable initial step in the assessment of the extent of contamination in the area. Upon completion of this phase, additional work may be necessary in order to fully define the degree and extent of groundwater contamination resulting from this unit.

Should you have any additional questions or comments on this matter, please contact Mr. Steve Spengler at (601) 961-5171.

Sincerely,

Kaleel Rahaim
Hazardous Waste Division

KR:lr

cc: Mr. James H. Scarbrough, EPA

FILE COPY



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



July 17, 1989

FILE COPY

Mr. Matthew C. Plautz, P.E.
Program Manager - Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Koppers Industries, Inc.
Facility, Tie Plant,
Mississippi, Beazer Materials
& Services, Inc., Tie Plant,
Mississippi - MSD007027543

Due to resolution of the issues resulting from the Compliance Evaluation Inspection conducted by the Mississippi Bureau of Pollution Control on December 15, 1989, by Agreed Order No. 1598-89, your appearance before the Mississippi Commission on Natural Resources on July 26, 1989, will not be necessary.

Should you have additional questions or comments on this matter, please contact me at (601) 961-5171.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kaleel Rahaim".

Kaleel Rahaim
Hazardous Waste Division

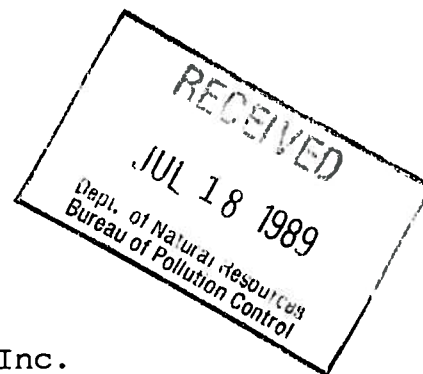
KR:lr

cc: Mr. James H. Scarbrough, EPA

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



July 14, 1989



Mr. David Malchow
Environmental Labs, Inc.
P. O. Drawer 2309
Gulfport, MS 39505

Dear Mr. Malchow:

Beazer Materials and Services, Inc. (BM&S) is operator of a surface impoundment at the Koppers Industries, Inc. wood treating plant in Tie Plant, Mississippi. The surface impoundment is operated under Mississippi Hazardous Waste Management Permit Number 88-543-01 (MSD 007027543).

On April 13, 1989 we notified the Director of our intent to modify the closure plan for the surface impoundment. The modifications involved a revised construction of the closure cap that is of a more conservative design than the permitted design. This would provide more protection for human health and the environment. This modification was determined to be a Class I modification. On May 23, 1989, the Mississippi Natural Resources Permit Board approved the requested modifications.

In accordance with MHWMR 270.42(a), we hereby provide notification of this action. Should you have any questions, please contact me at the number indicated below.

Sincerely,

Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

cc: B. Nolan
R. Clayton
K. Rahaim (MSDNR)

DIVISION OF SOLID WASTE

REVIEWED BY MC

DATE 7/18/89

COMMENTS Copy sent to EPA

7/18/89

MR. DAVID MALCHOW
ENVIRONMENTAL LABS, INC
P.O. DRAWER 2309
GULFPORT, MS 39505

MRS. SARAH MOTT
WILDLIFE FEDERATION
P.O. BOX 1814
JACKSON, MS 39205

MR. CLIFFORD DANBY
ORLEANS AUDUBON SOCIETY
RT 1 BOX 106M
POPLARVILLE, MS 39470

MR. MAC MONTGOMERY
U.S. ARMY ENGINEER
P.O. BOX 60
VICKSBURG, MS 39180

MR. DAVID W. GILBERT
RUST ENGINEERING COMPANY
P.O. BOX 101
BIRMINGHAM, AL 35201

STATE & FEDERAL ASSOCIATES
REGULATORY DEPARTMENT
1110 KING STREET, SUITE #600
ALEXANDRIA, VA 22314

MR. WESLEY LEPAED
PACKARD ELECTRIC COMPANY
P.O. BOX 260
CLINTON, MS 39056

MR. O.D. KEATON
AWARE LABORATORIES
227 FRENCA LANDING DRIVE
NASHVILLE, TN 37204

DR. ED CAKE
GULF COAST RESEARCH LAB
EAST BEACH DRIVE
OCEAN SPRINGS, MS 39564

MR. JERRY MCBRIDE
MS. PETROLEUM COUNCIL
P.O. BOX 42
JACKSON, MS 39205

MR. WARREN PAGE
MS POWER & LIGHT COMPANY
P.O. BOX 1640
JACKSON, MS 39205

MR. HERBERT SANGER
GENERAL COUNSEL
TENN VALLEY AUTHORITY
KNOXVILLE, TN 37902

MR. GLENN H. STANLEY
FISH & WILDLIFE SERVICE
900 CLAY STREET, ROOM 235
VICKSBURG, MS 39180

MR. E. CORBIN MCGRIF
ENVIRONMENT PROTECTION SYS.
P.O. BOX 20382
JACKSON, MS 39209

MR. GEORGE VAUGHT
EPSEY, HUSTON, & ASSOCIATES
916 S. CAPITOL OF TEXAS HWY
AUSTIN, TX 78767

DR. M.T. EL-ASHRY
TENNESSEE VALEY AUTHORITY
272 FORESTRY BLDG.
NORRIS, TN 37828

CONSERVATION CHAIRMAN
MS CHAPTER SIERRA CLUB
P.O. BOX 4335
JACKSON, MS 39126

MR. F.W. DODGE DIVISION
MCGRAW-HILL INFORMATION SYSTEM
2600 INSURANCE CENTER
JACKSON, MS 39216

MR. ROBERT W. MONETTE, P.E.
CH2M HILL
3002-C BIENVILLE BLVD.
OCEAN SPRINGS, MS 39564

DR. MICHAEL S. BONNER
ANALYTICAL TESTING CO.
RT. 13 BOX 85
HATTIESBURG, MS 39401

MR. MARTIN E. RIVERS
TENNESSEE VALLEY AUTHORITY
201 SUMMER PLACE BLDG.
KNOXVILLE, TN 37902

MR. PETE DOUGLAS
U.S. FISH & WILDLIFE SERVICE
P.O. DRAWER 1190
DAPHNE, AL 36525

MR. KEN GORDON
MS NATURAL HERITAGE PROGRAM
111 N. JEFFERSON STREET
JACKSON, MS 39202

DEPT. OF ARCHIVES & HISTORY
P.O. BOX 571
JACKSON, MS 39295-0571

MR. FREDDIE ROBERT
142 FOXHILL ROAD
PEARL, MS 39208

MR. DON STANELY
CHEMICAL WASTE MANAGEMENT INC.
2600 DELK ROAD
MARIETTA, GA 30067

DEPT. OF WILDLIFE CONSERVATION
P.O. BOX 451
JACKSON, MS 39209

MR. GARY CUEVAS
BUREAU OF MARINE RESOURCES
2620 WEST BEACH BOULEVARD
BILOXI, MS 39531

CHEMICAL SURVEYS
SUITE 24 PARK PLACE WEST
ERIE, PA 16508-2399

MR. JACK MCMILLAN
WTE CORP
5430 EXECUTIVE PLAZA, SUITE 2F
JACKSON, MS 39209

MR. WILLIAM B. KENNEDY, JR
MID CONTINENT OIL & GAS ASSOC.
P. O. BOX 22925
JACKSON, MS 39205-2925

MR. EARNEST G. TAYLOR, JR
WATKINS, LUDLAM & STENNIS
P. O. BOX 427
JACKSON, MS 39205-0427

MS. CINDY BARBEAU
MALCOLM FIRNIE
301 HIDDEN BLVD.
NEW PORT NEWS, VA 23606

MR. JIM BRIGHT
MS. FORESTRY COMMISSION
301 N. LAMAR STREET
JACKSON, MS 39201

MS. MARY POWERS
MCGRAW-HILL PUBLISHING CO.
3701 LOCKSLEY DRIVE
BIRMINGHAM, AL 35223

MS. HEIDI FICHINGER
CHEMICAL SAFETY ASSOCIATES, INC.
8388 VICKERS STREET, SUITE 216
SAN DIEGO, CA 92111

ELIZABETH F. MASON
HMIR
P.O. BOX 535 HAVARD SQ STATION
CAMBRIDGE, MA 02238

MR. CARL F. ANDRE
UNIVERSITY OF MS MEDICAL CTR
P.O. BOX 4654
JACKSON, MS 39216

MR. JOHN E. MILNER
BRUNINI, GRATHAM, GROWER & HEWES
P.O. DRAWER 119
JACKSON, MS 39205



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



July 11, 1989

Mr. Matthew C. Plautz, P.E.
Program Manager - Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

FILE COPY

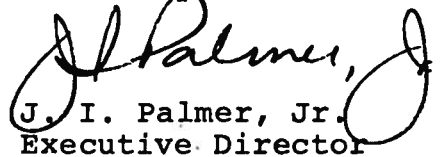
Dear Mr. Plautz:

Re: Administrative Order No.
1440-88
Tie Plant, MS Facility

This letter serves as notice of revocation of the above referenced order which was issued to Koppers Company, Inc. on July 7, 1988.

If you have any questions, please feel free to contact Mr. Steve Spengler of my staff at (601) 961-5171.

Sincerely,


J. I. Palmer, Jr.
Executive Director

JIP:SS:lr

cc: Mr. James Batchelder, KII
Ms. Billie S. Nolan, BMS
Mr. Donald C. Bluedorn, Esq.
Mr. James H. Scarbrough, EPA



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



June 1, 1989

CERTIFIED MAIL NO. P 965 303 958

Mr. Matthew C. Plautz, P.E.
Program Manager - Environmental Services
Beazer Materials & Services, Inc.
436 Sevetnh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Boiler Ash Closure Plan
Permit Modification
Grenada, MS Facility

On May 23, 1989, the Mississippi Natural Resources Permit Board approved the Boiler Ash Landfill Closure Plan and the requested modifications for the cap on the surface impoundment at the Grenada, Mississippi, facility.

Enclosed find pages 21 through 24 which should be inserted in Section VIII, Attachment I of Mississippi Hazardous Waste Management Permit No. 88-543-01 to replace the original pages. The enclosed document "Construction Specifications for Surface Impoundment Closure" should be inserted after page 24 in the same section. Print numbers A103986, revision 0, and A103987, revision 0, which are enclosed, should replace print numbers A102982, revision 0 and A102983, revision 0.

If you have any questions, feel free to contact Mr. Kaleel Rahaim of my staff at (601) 961-5171.

Sincerely,

Charles H. Chisolm
Bureau Director

CHC:SS:lr
Enclosure

cc: Mr. James H. Scarbrough, EPA (w/enclosure)

FILE COPY



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



June 23, 1989

FILE COPY

Mr. Matthew C. Plautz, P.E.
Program Manager - Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Transmittal - Inspection
Report - Compliance Evaluation
Inspection - Beazer Materials
& Services, Inc. - Tie Plant,
Mississippi, MSD007027543

Attached please find copies of inspection checklists and the inspection report for the above referenced inspection at the Koppers Industries Inc. facility in Tie Plant, Mississippi. One minor violation is cited as a result of that inspection. We anticipate your correction of this violation within the next ten (10) days. No further action on this violation is anticipated pending observance of compliance at the next inspection of the facility.

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

Sincerely,

Kaleel Rahaim

Kaleel Rahaim
Hazardous Waste Division

KR:lr

Attachments

cc: Mr. James H. Scarbrough, EPA (w/enclosures)
Mr. James Batchelder, KII (w/enclosures)
Mr. J. D. Clayton, KII (w/enclosures)

RECORD OF TELEPHONE CONVERSATION

Name of firm or party

Koppers Industries Inc. - (Beazer)

Address

re Tie Plant, Mo.

Contact

Ralf Ohliss - V.P. Mfg.

Phone

(412) 227-2722

Ray called Steve Spengler 6-9-89 indicating that KII will no longer use waste sludges (hazardous or non-hazardous) from any non-Koppers sources in the Fuel Additives Program at the Grenada (Tie Plant) facility.

Date 6-9-89 Hour 10:10

To

Steve Spengler

WHILE YOU WERE OUT

From

Ralf Ohliss

Of

Ray Ohliss

Phone ()

Ray Ohliss-

Telephoned

Returned Call

Please Call

Please See Me

Will Call Again

Important

Message

412-227-2722

NO LONGER BRINGING
IN WASTE FROM
OTHER NON-KOPPERS
FACILITIES

Signature

Signed

Debbie

Keppas Compliance

Mississippi Bureau of Pollution Control
P. O. Box 10385
2380 Hwy 80 W.
Jackson, Mississippi 39209

PANAFAX TRANSMITTAL SHEET

DATE: 6/23/89

Please deliver the following 7 pages including transmittal sheet to:

NAME: Mr. Ben Moore PHONE: (404) 347-4486

LOCATION: EPA - Atlanta - REGION IV COMPLIANCE

FROM: Laleel Raham PHONE: (601) 961-5171

LOCATION: Miss. Bureau of Pollution Control

REMARKS: Copy of Agreed Order finalized with
Besser Materials & Services 6/23/89 - Signed
Copy to be Fed Express today (6/23/89)

CONFIRMATION: If all pages are not received or any are not legible please call us as soon as possible.

Telephone: (601) 961-5197

Telefax: (601) 961-5190

Telex: Panafax PX-100

Post-It™ brand fax transmittal memo 7671 # of pages 6	
To: <i>Sievers</i>	From: <i>Matt Rautz</i>
Co: <i>MSDNR</i>	Co: <i>BT7 & S</i>
Dept: <i>5190</i>	Phone: <i>227-2952</i>
Fax: <i>601-961-5171</i>	Fax: <i>412-227-2950</i>

BEFORE THE MISSISSIPPI COMMISSION
ON NATURAL RESOURCES

IN THE MATTER OF:

MISSISSIPPI COMMISSION ON
NATURAL RESOURCES

COMPLAINANT

VS.

ORDER NO. _____

BEAZER MATERIALS AND SERVICES, INC.
MSD007027543

AND
KOPPERS INDUSTRIES, INC.
GRENADA, MISSISSIPPI
MSD985967066

RESPONDENTS

AGREED ORDER

*Signed agree
to be Fed'd
6/23/89 to BPC
per Billie Nolen
ans.
KC*

COMES NOW THE Mississippi Commission on Natural Resources, Complainant, and Beazer Materials and Services, Inc. (Formerly Koppers Company, Inc.), and Koppers Industries, Inc. successor in interest to Beazer Materials and Services, Inc., Respondents in the above referenced administrative action and would show forth as follows:

1. On April 18, 1989, Respondents were contacted by Complainant and notified of Complainant's intent to cite Respondents for a certain violation and/or violations of requirements set forth in Mississippi Hazardous Waste Management Regulations (MHWMR) Parts 262, 264, 265, and 268, and Mississippi Hazardous Waste Management Permit (MHWMP) No. 88-543-01; said apparent violations being as follows:

cc. B. Nolen

- (A) MHWMR 262.34 - The facility stored six drums of U051 Hazardous Waste at its less than 90 day container/drum storage building for longer than 90 days.
- (B) MHWMP No. 88-543-01 - The facility failed to install a replacement well for Well No. R-1, which was constructed improperly , within the time-frame specified in the Mississippi Hazardous Waste Management Permit (MHWMP) No. 88-543-01.
- (C) MHWMR 265.302 - The facility failed to provide adequate run-on, run-off and wind dispersal control for the boiler ash landfill.
- (D) MHWMR 265.93 - The facility failed to properly notify the Executive Director of the existence of groundwater contamination at the boiler ash landfill and surface impoundment.
- (E) MHWMR Part 262 Subparts A, B, and C - The facility transported ash, derived from the burning of K001 hazardous waste in the facility's boiler, to the Grenada County landfill which did not have an EPA identification number and was not permitted to dispose of hazardous waste.

(F) MHWMR Part 268 - The facility did not have any records or certifications that would have shown that the two shipments of waste (identified by Manifest Document Nos. 167214 and 00182) received on site after August 8, 1988, the effective date of the land disposal treatment standards for K001 hazardous waste, would have met the land disposal treatment standard for K001 prior to disposal as required.

2. On May 18, 1989, the Bureau of Pollution Control conducted a Compliance Evaluation Inspection and found that actions had been taken to bring the facility into compliance with respect to the violations cited in A, B, C, and D of paragraph 1 of this Order. A record review was conducted as part of that inspection and documents supported compliance.

3. Complainant and Respondents do hereby agree, in lieu of a formal filing of complaint by Complainant, to enter into this Agreed Order wherein Beazer Materials and Services, Inc. agrees to pay on behalf of both Respondents and Complainant agrees to accept on behalf of both Respondents, the sum of \$41,387 as a full and complete settlement thereof, said sum to be payable as follows:

To be paid in its entirety on or before August 1, 1989,
and,

4. Respondents further understand and agree that, as part of the above referenced settlement, Respondents shall manage within the State of Mississippi any and all oil/water separator sludge, upon disposal, as K001 hazardous waste in compliance with this Order.

and,

5. Respondents further understand and agree that, as part of the above referenced settlement, Beazer Materials and Services, Inc. on behalf of both Respondents shall perform an engineering assessment of the impacts, if any, from boiler ash (fly ash and cinders) generated at the Grenada facility and placed at the Grenada County Landfill from May 7, 1987 to the present (hereinafter referred to as "the Boiler Ash"). This assessment shall consist of the following:

- A. A physical and chemical characterization of the Boiler Ash which will consist of a review of (i) historical analytical data on boiler ash (fly ash and cinders) samples, and, (ii) analytical data on TCLP leachate and total waste constituents. The principal constituents of interest are EP Toxicity metals (by TCLP extraction procedure), K001 constituents and 2, 3, 7, 8-TCDD.
- B. An estimate of the volume of Boiler Ash taken to the Grenada County Landfill.

- C. A review of available literature to determine (i) regional geology and hydrology at the Grenada County Landfill, (ii) groundwater usage (public and private wells) within a three mile radius of the Grenada County Landfill consisting of, where available, the design pumping rates, the aquifer of withdrawal, and the depth of well screens, and (iii) surface water pathways emanating from the Grenada County Landfill.
- D. A risk-based engineering assessment of the impacts, if any, of the Boiler Ash based upon the information obtained in Paragraphs A through C above.
- E. A written report of the findings of Paragraphs A through D to the Commission within 120 days of the date of this Order.

6. Respondents understand and agree that they are fully entitled to an evidentiary hearing before the Commission on Natural Resources pursuant to Sections 49-17-31 and 49-17-41 of the Mississippi Code Annotated, and that they agree to the above referenced settlement only after having been fully informed of their right to said hearing and having waived their right to such a hearing; and

7. Respondents understand and agree that this settlement agreement in no way is an admission of liability on their part, and is entered into for the sole purpose of causing a swift resolution of this administrative matter.

SO ORDERED, this the _____ day of _____, 1989.

MISSISSIPPI COMMISSION ON
NATURAL RESOURCES

BY: _____
J. I. PALMER, JR.
EXECUTIVE DIRECTOR

AGREED to this the _____ day of _____, 1989.

RESPONDENT
BEAZER MATERIALS AND SERVICES, INC.

RESPONDENT
KOPPERS INDUSTRIES, INC.

RECORD OF TELEPHONE CONVERSATION

Name of firm or party

Reazer Materials & Services, Inc (Koppers)

Address

RE: GRENADA

Contact

MATT PLAUTZ

Phone

(412) 227-2952

Matt called to review Financial Assurance numbers prior to issuance of the most current Financial Assurance Documents. The following numbers were reviewed and deemed acceptable:

Surface Impoundment:	\$ 689,159	- Closure
	887,250	- Post-Closure
Boiler Ash Landfill:	188,969	- Closure
	727,054	- Post-Closure
	<u>\$ 2,489,432</u>	TOTAL

Spray field considerations have been eliminated from the totals presented. An extension until June 16 has been given for submittal of these documents.

Kelley Raham

Signature

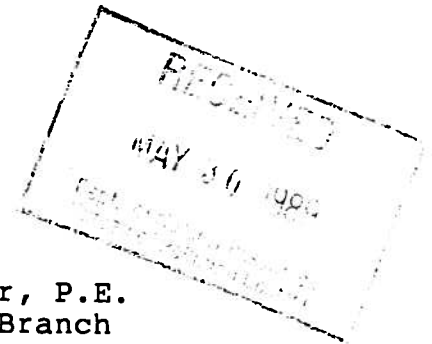
5/26/89

Date



Jill M. Blundon
General Counsel
Thomas Burgunder
Thomas F. Reid
George Carroll
Mary Dombrowski Wright
Billie Schrecker Nolan
William F. Giarla
Babette Magee
James B. Springfield
Real Estate Manager

May 26, 1989



Mr. William S. Spengler, P.E.
Coordinator, RCRA TSD Branch
Hazardous Waste Division
Mississippi Department of Natural
Resources
2380 Highway 80 West
Jackson, MS 39309

Re: Response to Penalty Calculation
Koppers Industries, Inc.
Tie Plant, MS Facility

Dear Mr. Spengler:

This letter transmits a formal response by Beazer Materials and Services, Inc. (BM&S) to the proposed penalties and alternate settlement options relative to alleged violation as a result of the MSDNR inspection conducted on December 12, 1989 at the Koppers Industries, Inc. facility in Tie Plant, Mississippi. These issues were discussed by BM&S and MSDNR in our meeting of May 25, 1989 in your offices. The following discussion is for settlement purposes only and should not be construed as an admission of liability.

1. Storage of drums containing U051 waste for greater than 90 days:

MSDNR has classified this violation as a minor-major based on the penalty assessment matrix provided to BM&S. In our letter dated May 3, 1988 we presented information relative to activities conducted by MB&S for final disposition of these materials. We have enclosed the following additional documentation to support our contention that attempts were made to properly manage these wastes prior to December 1988:

- (a) Correspondence files on waste characterization and waste profiling efforts between the then Koppers Company, Inc. and Chemical Waste Management after May 1988 but prior to the land prohibition for the six drums of U051 at issue are attached hereto as Exhibit 1.

To summarize, this correspondence confirms that on June 17, 1988, J. D. Clayton, Plant Manager, received a completed waste profile sheet for the subject materials from David King, Regional Environmental Coordinator for then Koppers Company, Inc. with instructions to obtain a sample of the materials and forward both to Chemical Waste Management in Emelle, Alabama. Chem Waste notified Koppers by letter dated June 27, 1988 that it had received the above and would advise Koppers with respect to its disposal decision within two weeks of receipt, i.e., by July 8, 1988. This disposal decision was not received by that date. Subsequently, Koppers contacted Chem Waste for its decision, but to no avail.

- (b) Also attached as Exhibit 2 is our original Soft Hammer Demonstration/Certification Information letter dated November 1, 1988 to the Regional Administrator of USEPA Region IV which outlines our efforts to locate a proper TSDF for U051 waste were subject to the "soft hammer" provisions under the land prohibition standards effective under the August 14, 1988 final ruling (40 CFR 268). Our supplemental response dated April 26, 1989 was provided to Mr. Rahaim of your offices earlier.

Based on these documents, BMS believes that the penalty for this item is better classified in the mid-range of the minor-moderate classification and additional penalties relative to the chronic nature of the violation are not warranted. In light of this, BM&S is prepared to settle this issue for \$1,000.

NEW
BPL Proposal
Minor/Major
Mdpt - 225D
2250 * .50 =
1125 Min

2. Failure to install upgradient well at the surface impoundment:

The replacement well R-1 was installed in March 1989. The replacement was a condition in the RCRA Part B permit to operate the surface impoundment, effective June 28, 1988. MSDNR has classified this penalty as a minor-major, with additional economic benefit costs as a result of the delay in installation of the well. The wells comprising the groundwater monitoring system, including an already existing and approved upgradient well, (R-10), continued to be monitored during the interim period. Monitoring data collected during this period was also provided to MSDNR on a regular basis and notification that the surface

impoundment may be impacting groundwater quality (see Item 3.) was presented to MSDNR in our letter dated May 3, 1989. The delay time period in question was also during a significant period of change for Koppers Company, Inc. relative to change of ownership and management personnel.

Based on this and previously presented information and with consideration of the discretion granted in the penalty assessment matrix minor-major range, BM&S is prepared to settle this issue for \$1,980 which includes consideration of an economic benefit of \$480.

BPL
NEW
Minor/Major
2250
ED - 480
(.50 x 2250) + 480
= 11625
=

3. Failure to maintain plastic cover over boiler ash landfarm:

The MSDNR has classified this violation as a minor-minor. BSDNR maintains that adequate protection is provided at the boiler ash landfarm to prevent run-on/run-off and wind dispersal. A procedure for regular inspection of the same has been established and was in effect at the time of the inspection. BM&S believes that conditions and concerns noted during the MSDNR inspection on December 12, 1988 were promptly addressed and, therefore, the alleged violation does not warrant a monetary penalty.

BPL
Minor/Minor
14313
.5 x 313 =
15157
=

4. Failure to Notify MSDNR of GW contamination at the Surface Impoundment and Boiler Ash Landfarm:

MSDNR has classified these combined violations as major-moderate. BM&S notified MSDNR on May 3, 1989 that the surface impoundment and the boiler ash landfarm regulated units may be affecting groundwater quality. BM&S submitted a Groundwater Quality Assessment Plan (GWQAP) for the boiler ash landfarm on May 18, 1989. BM&S also outlined in its May 3 letter the activities scheduled for the surface impoundment to assess groundwater conditions and to implement a compliance monitoring program.

The objectives of both the GWQAP for the boiler ash landfarm and the institution of a compliance monitoring program at the surface impoundment is to assess the rate and extent of contaminant migration and to develop corrective actions if necessary. The delay in initiating these evaluations resulted in little, if any, increased potential for harm to human health or the environment.

Groundwater monitoring data for both units were submitted to MSDNR on a regular basis during the interim period. Constituent levels noted during the monitoring period in question were in the low parts per billion (ppb) range, with several being the practical quantification levels (PQLs) for individual constituents. Groundwater flow velocity for the shallow sand aquifer at the facility has been conservatively estimated at 14.6 ft/yr. as indicated in our 1988 Annual RCRA Groundwater Monitoring Summary submitted March 1, 1989.

Based on this discussion, BM&S maintains that the penalty falls within the mid-range of the moderate-moderate classification. This is based on our contention that the potential for harm has not been established at present and based on available hydrogeological data and levels of constituents discovered that the harm to human health and the environment due to the operation of these specific units are more rationally classified as moderate. Additional activities are planned to mitigate any impact to groundwater quality. BM&S is prepared to settle this issue for \$6,500 and is committed to conducting the activities outlined above.

*Major/Moderate
Low end \$15,000
\$5* 75000
7500*


5. Oil/water Separator Sludge - MSDNR has classified this alleged violation as a moderate-major. As discussed in previous meetings and communications with MSDNR, BM&S maintains that the waste material in question is not the waste K001 but is non-hazardous process waste. We also maintain the penalty calculated by MSDNR is excessive considering the ambiguity realized by both parties in the regulatory classification of this waste. We believe that MSDNR is in agreement with BM&S of the need to settle this issue once and for all and to initiate procedural controls in the future to manage these wastes.

Based on our discussions, BM&S believes that the penalty should be dropped from consideration. BM&S, in concert with KII, is willing to discontinue the burning of oil/water separator sludge in the boiler at the Tie Plant facility. In addition, BM&S is willing to discuss alternate settlement options to address MSDNR concerns with respect to the handling of the boiler ash since June 1987 as discussed in our meeting on May 24, 1989.

Summary

BM&S is prepared to settle items 1 through 4 above by issuing a check in the amount of \$9,480. BM&S is prepared to discuss settlement of Item 5 after receipt of the MSDNR proposed alternative. If you should have any questions, please call either myself or Ms. Billie S. Nolan at (412/227-2515). We look forward to improving our relationship with MSDNR and believe that we have demonstrated this in our discussions with MSDNR.

Sincerely,


Matthew C. Plautz, P.E.
Program Manager-Environmental
Services

MCP/bw

cc: R. Hamilton
B. Nolan
J. Batchelder
R. Clayton
D. Kerschner



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171
MEMORANDUM



TO: Koppers Compliance File

FROM: Kaleel Rahaim *KL*

SUBJECT: Beazer Materials & Services, Inc.; Koppers Industries, Inc. Meeting Concerning Apparent Violations cited at December, 1988 Compliance Evaluation Inspection (CEI)

DATE: May 26, 1989

A meeting was held May 24, 1989, with representatives of Beazer Materials & Services, Inc. and Koppers Industries, Inc. The purpose of the meeting was to resolve the status of apparent violations cited during a CEI conducted at the facility December, 1988.

The first topic of discussion was the matter of sprayfield status at the facility. Because of recent court rulings, it was indicated that the Bureau of Pollution Control (BPC) will consider this unit a Solid Waste Management Unit (SWMU). Modification of the Hazardous Solid Waste Amendment (HSWA) permit will probably be needed to address groundwater contamination from this unit. Since the most recently submitted Part A does not refer to the sprayfield, no revision is necessary.

We notified Beazer Materials and Services, Inc. (BMC) and Koppers Industries, Inc. (KII) that the Mississippi Natural Resources Permit Board approved the Closure Plan for the Boiler Ash Landfill and modification to the Permit concerning cap construction on the closing surface impoundment. BMS indicated that they would maintain financial assurance responsibility for the Boiler Ash Landfill as well as the Surface Impoundment. Dave Bockelmann of BPC indicated that on the post closure permit, it did not matter that BMS would not be the operator of that unit. The post closure permit will be drafted after completion of the Groundwater Quality Assessment Program to be done by BMS.

A review of apparent violations and proposed penalties followed. The summary of the apparent violations and penalty calculations follows:

1. For storage of six drums of U051 hazardous waste for longer than ninety days in a less than ninety day storage area, a penalty of \$3,749 was calculated. BMS indicated that they would submit additional documentation outlining their attempts

to dispose of this "soft hammer" waste. BPC responded with a \$750 reduction in penalty if the documentation warranted. The new penalty would be \$2,999.00.

2. For failure to construct a replacement well for well #R-1 in a timely manner as required by Permit #88-543-01, the penalty assessed was \$3,479.00. Matt Plautz of BMS will review the delayed cost component of this penalty within 2-3 days to ascertain if adjustment is warranted. Barring adjustment this amount will stand.
3. For failure to maintain adequate run-on/run-off control over ashes at the Boiler Ash Landfill Area, a penalty of \$313.00 was calculated. No discussion ensued on this issue.
4. Failure to notify for groundwater contamination at the Surface Impoundment and Boiler Ash Landfill Area resulted in a calculated penalty of \$17,500. Neither BMS nor KII commented on this issue.
5. Oil/water separator sludge handling, burning and ash disposal violations resulted in a penalty calculation of \$51,453. Results of discussions between BPC and BMS are summarized in the following paragraphs.

Sam Mabry of BPC reviewed the previous discussion between BMS and BPC on oil/water separator sludges. He proposed a settlement in lieu of a financial penalty pending approval from US Environmental Protection Agency (EPA), Region IV.

The proposed alternative included:

- a) An agreement between BMS, KII and BPC that from this point forward, oil/water separator sludge either generated on-site at the Grenada, Mississippi facility or brought in from off-site be labeled and treated as hazardous waste K001.
- b) An assessment of impact on human health and the environment be conducted on the Grenada Landfill (site of ash disposal from the burning of oil/water separator sludge). Depending on initial evaluations, a groundwater monitoring program at the site may be necessary. This, too, would be conducted by BMS.

Details of the proposed alternative would be negotiated pending an agreement in principal between BMS and BPC. Mr. Mabry will review with EPA, Region IV and Billie Nolan will review with BMS. A timetable of two weeks from the date of the meeting has been set as an action date for this issue.

Another issue discussed was the burning of process residues from off-site, non-Koppers facilities in the boilers at the Grenada, Mississippi facility. Ms. Nolan indicated that this practice was recently initiated by KII in response to some competitive pressures. She felt that upon review of the various permits involved, nothing in those permits precluded such action. Mr. Mabry indicated concern that the Hazardous Waste Permit specifically mentioned, in the Fuel Additives Program (FAP) section, that only waste from Koppers facilities would be burned in this program. In addition, the Air Permit writers apparently were not aware that off-site materials were to be burned. Ms. Nolan will refer this matter to Mr. James Batchelder of KII for his involvement in these discussions.

Summary of a request made by Kaleel Rahaim of BPC concerning descriptions of wastes manifested to this facility was made. KII and BMS feel that being more specific as to the source of the waste manifested in to the facility would be no problem.

List of Attendees

Ms. Billie Nolan - Manager, Environmental and Administration
Law Department - BMS

Mr. Matthews Plautz, P.E. - Program Manager - Environmental
Services - BMS

Mr. J.D. "Rock" Clayton - Plant Manager - Grenada, MS - KII

Mr. Sam Mabry - Administrator - Hazardous Waste Division -
BPC

Mr. Steve Spengler - Section Chief - TSD Facilities - BPC

Mr. David Bockelmann - Branch Chief - Hydrology - BPC

Mr. Kaleel Rahaim - Environmental Engineer, BPC

KR:lr

EPA ID: MSD007027543 Name of Facility: Keppers Industries, Inc.

Last Name: Clayton Contact Information First Name: J. D. Title: Plant Manager
 Phone: (601) 226-4584

SIC Codes	Description
2491	Wood Preserving

Operator Information
Name of Operator: Beazer Materials & Services Status of Operator: _____
Phone (412) 227-2000 *See Codes

Street: 436 Seventh Avenue Address of Operator
City: Pittsburgh State: PA Zip: 15219

Note: If facility has had previous operators, please provide on a separate sheet the above information plus date the change took place. *Koppers Company, Inc.*
Dec. 28, 1988

Existing Permits:	Type	Permit Number	Description
	<u>Air</u>	<u>0960-00012</u>	<u>boiler</u>
		<u>76-024</u>	<u>zero Discharge</u>

Facility indicator (C,N,R,X): X *See Codes

RCRA Regulatory Status (A,R,P,N): R *See Codes

RCRA Regulatory Status Description (1-7): *(Complete only if Regulatory Status is equal to "N")

[illegible]

***See: Codes**

[illegible]

PART A INFORMATION CONTINUED

Facility Latitude: Deg 33 Min 44 Sec 04
 Longitude: Deg 89 Min 47 Sec 19

Owner Information

Owner Name: Koppers Industries, Inc. Type of Owner: —
 Phone: (601) 226-4584 *See Codes

Street: The Plant Road Owner Address City: The Plant State: Ms
 Zip: 38960

Note: If facility has had previous owners, please provide on a separate sheet the above information plus date the change took place.

CODES

Operator Status Codes: C = County, D = District, F = Federal,
 M = Municipal, O = Other, P = Private, S = State

Permit Types: D = DOE Program, T = DOT Program, S = State Program,
 A = Inter-State Regional Program, W = Intra-State Regional Pr
 M = Municipal Program (city, Town, etc)
 Y = CICS (OTS Chemicals in Commerce Information System)
 B = Single Well (FURS), Q = CDSL = FATES, J = NOTIS
 H = Area Wells (FURS), K = Superfund, X = Other Federal Prg.

Facility Indicator: C = Commercial Recycler
 N = Not a TSD, Verified
 R = Recycler - Not Commercial
 X = TSD Facility but not a Recycler
 Blank = Unverified

RCRA Regulatory Status: A = Regulated Under Another Id Number
 N = Not Regulated
 P = Pending
 R = RCRA Regulated

RCRA Regulatory Status Description:
 1 = Only HW Received is from Exempt SQG
 2 = By Definition, Excluded Wastes
 3 = Delisted Wastes
 4 = Uses only Exempt Handling Methods
 5 = Closure/Post-Closure
 6 = Less than 90 Day Storage
 7 = Regulated under Another Id Number

Commercial Indicator:
 1 = Accepts Waste from any Off Site Generator
 2 = Accepts Waste only from Related Off-Site Generator
 (Same Corporation)
 3 = Accepts Waste from Other Restricted Off-Site
 Generators
 Blank: Commercial Status not known

Waste Codes Unit of Measure:
 K = Kilograms, M = Metric Tons, P = Pounds, T = Tons

Type of Owner: FC = Federally Owned, Operated by a private Contractor to
 Federal Government
 FF = Federally Owned, Federally Operated
 FI = Generally Owned, Indian Land
 FP = Federally Owned, Privately Operated
 PF = Privately Owned, Constructed for use by the Federal
 Government and Operated by the Federal Government
 PI = Privately Owned, Indian Land
 PL = Privately Owned, Leased and Operated by the Federal
 Government

F = Federal, P = Private, S = State, D = District, M = Municipal, O = Other



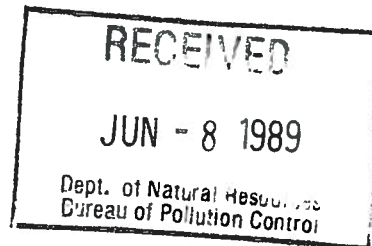
Phone: 412/825-9600

3000 Tech Center Dr., Monroeville, PA 15146

Fax: 412/825-9699

June 5, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



Mr. Kaleel Rahaim
Hazardous Waste Division
Bureau of Pollution Control
Mississippi Department of Natural Resources
Box 10385
Jackson, MS 39209

RE: Koppers Industries, Inc.
Tie Plant Groundwater Sampling

Dear Mr. Rahaim:

Confirming our telephone conversations on June 5, 1989, Keystone Environmental Resources, Inc. will perform groundwater sampling at the Koppers Industries, Inc. Tie Plant (Grenada), Mississippi plant on June 20, 1989. This sampling is being performed on behalf of Beazer Materials and Services, Inc.

Keystone's sampling technicians will arrive at the site during the afternoon of June 19, and will be prepared to begin sampling wells first thing on the morning of Tuesday, June 20, 1989.

We appreciate your cooperation in this matter. If you have any additional questions or requests regarding this sampling event, please call me.

Sincerely,

Robert J. Anderson
Senior Project Manager

RJA:dac

cc: M. Plautz (K-14)
J. Clayton (Grenada Plant)
G. Huth

DIVISION OF SOLID WASTE

REVIEWED BY JW

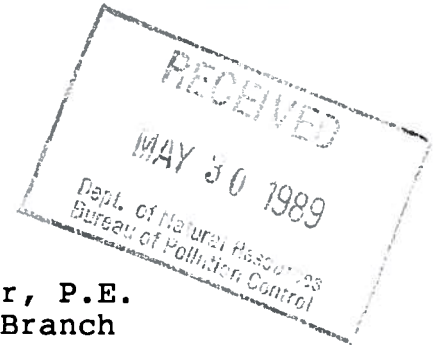
DATE 6/8/89

COMMENTS Copy sent to

EPA 6/8/89



*Koppers
Compliance*



Jill M. Blundon
General Counsel
Thomas Burgunder
Thomas F. Reid
George Carroll
Mary Dombrowski Wright
Billie Schrecker Nolan
William F. Giarla
Babette Magee
James B. Springfield
Real Estate Manager

May 26, 1989

DIVISION OF SOLID WASTE

REVIEWED BY 100

DATE 6/5/89

COMMENTS Copy sent to

EPA 6/5/89

Mr. William S. Spengler, P.E.
Coordinator, RCRA TSD Branch
Hazardous Waste Division
Mississippi Department of Natural
Resources
2380 Highway 80 West
Jackson, MS 39309

Re: Response to Penalty Calculation
Koppers Industries, Inc.
Tie Plant, MS Facility

Dear Mr. Spengler:

This letter transmits a formal response by Beazer Materials and Services, Inc. (BM&S) to the proposed penalties and alternate settlement options relative to alleged violation as a result of the MSDNR inspection conducted on December 12, 1989 at the Koppers Industries, Inc. facility in Tie Plant, Mississippi. These issues were discussed by BM&S and MSDNR in our meeting of May 25, 1989 in your offices. The following discussion is for settlement purposes only and should not be construed as an admission of liability.

1. Storage of drums containing U051 waste for greater than 90 days:

MSDNR has classified this violation as a minor-major based on the penalty assessment matrix provided to BM&S. In our letter dated May 3, 1988 we presented information relative to activities conducted by MB&S for final disposition of these materials. We have enclosed the following additional documentation to support our contention that attempts were made to properly manage these wastes prior to December 1988:

- (a) Correspondence files on waste characterization and waste profiling efforts between the then Koppers Company, Inc. and Chemical Waste Management after May 1988 but prior to the land prohibition for the six drums of U051 at issue are attached hereto as Exhibit 1.

To summarize, this correspondence confirms that on June 17, 1988, J. D. Clayton, Plant Manager, received a completed waste profile sheet for the subject materials from David King, Regional Environmental Coordinator for then Koppers Company, Inc. with instructions to obtain a sample of the materials and forward both to Chemical Waste Management in Emelle, Alabama. Chem Waste notified Koppers by letter dated June 27, 1988 that it had received the above and would advise Koppers with respect to its disposal decision within two weeks of receipt, i.e., by July 8, 1988. This disposal decision was not received by that date. Subsequently, Koppers contacted Chem Waste for its decision, but to no avail.

- (b) Also attached as Exhibit 2 is our original Soft Hammer Demonstration/Certification Information letter dated November 1, 1988 to the Regional Administrator of USEPA Region IV which outlines our efforts to locate a proper TSDF for U051 waste were subject to the "soft hammer" provisions under the land prohibition standards effective under the August 14, 1988 final ruling (40 CFR 268). Our supplemental response dated April 26, 1989 was provided to Mr. Rahaim of your offices earlier.

Based on these documents, BMS believes that the penalty for this item is better classified in the mid-range of the minor-moderate classification and additional penalties relative to the chronic nature of the violation are not warranted. In light of this, BM&S is prepared to settle this issue for \$1,000.

2. Failure to install upgradient well at the surface impoundment:

The replacement well R-1 was installed in March 1989. The replacement was a condition in the RCRA Part B permit to operate the surface impoundment, effective June 28, 1988. MSDNR has classified this penalty as a minor-major, with additional economic benefit costs as a result of the delay in installation of the well. The wells comprising the groundwater monitoring system, including an already existing and approved upgradient well, (R-10), continued to be monitored during the interim period. Monitoring data collected during this period was also provided to MSDNR on a regular basis and notification that the surface

impoundment may be impacting groundwater quality (see Item 3.) was presented to MSDNR in our letter dated May 3, 1989. The delay time period in question was also during a significant period of change for Koppers Company, Inc. relative to change of ownership and management personnel.

Based on this and previously presented information and with consideration of the discretion granted in the penalty assessment matrix minor-major range, BM&S is prepared to settle this issue for \$1,980 which includes consideration of an economic benefit of \$480. OK

3. Failure to maintain plastic cover over boiler ash landfarm:

The MSDNR has classified this violation as a minor-minor. BSDNR maintains that adequate protection is provided at the boiler ash landfarm to prevent run-on/run-off and wind dispersal. A procedure for regular inspection of the same has been established and was in effect at the time of the inspection. BM&S believes that conditions and concerns noted during the MSDNR inspection on December 12, 1988 were promptly addressed and, therefore, the alleged violation does not warrant a monetary penalty. NO

4. Failure to Notify MSDNR of GW contamination at the Surface Impoundment and Boiler Ash Landfarm:

MSDNR has classified these combined violations as major-moderate. BM&S notified MSDNR on May 3, 1989 that the surface impoundment and the boiler ash landfarm regulated units may be affecting groundwater quality. BM&S submitted a Groundwater Quality Assessment Plan (GWQAP) for the boiler ash landfarm on May 18, 1989. BM&S also outlined in its May 3 letter the activities scheduled for the surface impoundment to assess groundwater conditions and to implement a compliance monitoring program.

The objectives of both the GWQAP for the boiler ash landfarm and the institution of a compliance monitoring program at the surface impoundment is to assess the rate and extent of contaminant migration and to develop corrective actions if necessary. The delay in initiating these evaluations resulted in little, if any, increased potential for harm to human health or the environment.

Groundwater monitoring data for both units were submitted to MSDNR on a regular basis during the interim period. Constituent levels noted during the monitoring period in question were in the low parts per billion (ppb) range, with several being the practical quantification levels (PQLs) for individual constituents. Groundwater flow velocity for the shallow sand aquifer at the facility has been conservatively estimated at 14.6 ft/yr. as indicated in our 1988 Annual RCRA Groundwater Monitoring Summary submitted March 1, 1989.

Based on this discussion, BM&S maintains that the penalty falls within the mid-range of the moderate-moderate classification. This is based on our contention that the potential for harm has not been established at present and based on available hydrogeological data and levels of constituents discovered that the harm to human health and the environment due to the operation of these specific units are more rationally classified as moderate. Additional activities are planned to mitigate any impact to groundwater quality. BM&S is prepared to settle this issue for \$6,500 and is committed to conducting the activities outlined above.


5. Oil/water Separator Sludge - MSDNR has classified this alleged violation as a moderate-major. As discussed in previous meetings and communications with MSDNR, BM&S maintains that the waste material in question is not the waste K001 but is non-hazardous process waste. We also maintain the penalty calculated by MSDNR is excessive considering the ambiguity realized by both parties in the regulatory classification of this waste. We believe that MSDNR is in agreement with BM&S of the need to settle this issue once and for all and to initiate procedural controls in the future to manage these wastes.

Based on our discussions, BM&S believes that the penalty should be dropped from consideration. BM&S, in concert with KII, is willing to discontinue the burning of oil/water separator sludge in the boiler at the Tie Plant facility. In addition, BM&S is willing to discuss alternate settlement options to address MSDNR concerns with respect to the handling of the boiler ash since June 1987 as discussed in our meeting on May 24, 1989.

Summary

BM&S is prepared to settle items 1 through 4 above by issuing a check in the amount of \$9,480. BM&S is prepared to discuss settlement of Item 5 after receipt of the MSDNR proposed alternative. If you should have any questions, please call either myself or Ms. Billie S. Nolan at (412/227-2515). We look forward to improving our relationship with MSDNR and believe that we have demonstrated this in our discussions with MSDNR.

Sincerely,


Matthew C. Plautz, P.E.
Program Manager-Environmental
Services

MCP/bw

cc: R. Hamilton
B. Nolan
J. Batchelder
R. Clayton
D. Kerschner

FILE COPY

May 15, 1989

CERTIFIED MAIL NO. P-679 722 822

Mr. Matthew C. Plautz, P.E.
Program Manager-Environmental Service
Beazer Materials and Services, Inc.
436 Seventh Avenue
Pittsburg, Pennsylvania 15219

Dear Mr. Plautz:

Re: Koppers Facility
Grenada, Mississippi

Under the authority of Section 49-17-31 of the Mississippi Code, the Mississippi Commission on Natural Resources hereby causes this written complaint to be served on Beazer Materials and Service, Inc.

This complaint is served based upon certain apparent violations of the Mississippi Hazardous Waste Management Regulations discovered during an inspection of the referenced facility on December 15, 1988.

Appropriate representatives of Beazer Materials and Services, Inc. are therefore notified to appear before the Mississippi Commission on Natural Resources on the 26th day of July, 1989, at 10:00 a.m., in the conference room of the Commission in the Southport Center Building, 2380 Highway 80 West, Jackson, Mississippi, where the substance of this complaint will be heard by the Commission.

You have the right to be accompanied by your legal counsel and such witnesses as you deem necessary in presenting your defense. This will be a formal hearing, and all testimony will be taken under oath as in a court of law. The Commission is empowered to levy penalties of up to \$25,000.00 per day per violation, and any appeal of the Commission's decision will be to the chancery court in the county wherein the violation occurred.

Attached you will find a copy of the Commission's hearing procedures and also a copy of frequently asked questions regarding hearings. We urge you to review these documents carefully.

Mr. Matthew C. Plautz, P.E.
Page 2

If you have any questions regarding this matter, please contact us.

Yours very truly,

J. I. Palmer, Jr.
Executive Director

JIP:SS:eb
Attachment

cc: Mr. James Scarbrough, EPA
Ms. Billie Nolan, Beazer Materials and Services, Inc.



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



May 30, 1989

Mr. Matthew C. Plautz, P.E.
Program Manager - Environmental Services
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

FILE COPY

Dear Mr. Plautz:

Re: "Proposed Work Plan
Groundwater Quality Assessment
- Boiler Ash Disposal Area -
Grenada, Mississippi"
Beazer Materials & Services,
Inc. - MSD007027543

We have reviewed the above referenced document and have the following recommendations:

1. Section 2.2.2, page 2-2 - We recommend triple rinsing of the split-spoon sampler with deionized water after detergent wash.
2. Section 2.3, page 2-4 - Unfiltered samples of groundwater also need to be collected and analyzed for total metals. Maximum Concentration Limits (MCLs) are based on total metals, not soluble metals.

We ask for a response to these comments within 30 days of receipt of this letter.

If you have any questions, do not hesitate to contact me at (601) 961-5171.

Sincerely,

Kaleel Rahaim

Kaleel Rahaim
Hazardous Waste Division

KR:lr

cc: Mr. James H. Scarbrough, EPA

Koppers
Industries



Phone: 412/825-9600

3000 Tech Center Dr., Monroeville, PA 15146

Fax: 412/825-9699

May 23, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Kaleel Rahaim
Hazardous Waste Division
Mississippi Department of Natural Resources
Bureau of Pollution Control
Box 10385
Jackson, MS 39209

RE: Koppers Industries, Inc.

Dear Mr. Rahaim:

This letter is to inform you that the RCRA groundwater sampling at the Koppers Industries, Inc. facility in Tie Plant, Mississippi has been rescheduled. The sampling will be conducted on June 18, 1989.

The sampling event was originally scheduled for May 18, 1989, but because of a miscommunication within Keystone, that date was missed. I apologize for any inconvenience this may have caused you.

If you have any questions, please feel free to call me.

Sincerely,

Robert J. Anderson/dac

Robert J. Anderson
Senior Project Manager

RJA:dac

cc: M. Plautz
R. Clayton
G. Huth

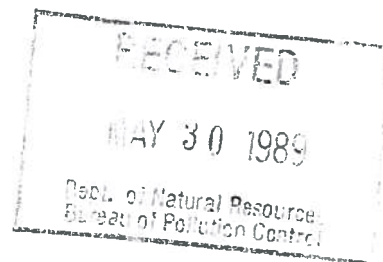
DIVISION OF SOLID WASTE

REVIEWED BY KR

DATE 5/30/89

COMMENTS Copy sent to EPA

5/30/89



FORM 3 RCRA		U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program (This information is required under Section 3005 of RCRA.)	I. EPA I.D. NUMBER											
			FM SD 007 02 7 5 4 3											

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS
23	24 - 29	

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)			2. NEW FACILITY (Complete item below.)		
<input type="checkbox"/> 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)			<input type="checkbox"/> 2. NEW FACILITY (Complete item below.)		
71			71		
FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)			FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN		
YR. MO. DAY			YR. MO. DAY		
8 04 01			73 74 75 76 77 78		
15 73 74 75 76 77 78			73 74 75 76 77 78		
B. REVISED APPLICATION (place an "X" below and complete Item I above)					
<input checked="" type="checkbox"/> 1. FACILITY HAS INTERIM STATUS					
<input type="checkbox"/> 2. FACILITY HAS A RCRA PERMIT					
72					

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:			OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-Feet (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-Feet	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

S															T/A		C																						
C															1																								
1 2															13 14 15																								
LINE NUMBER	A. PRO- CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY										FOR OFFICIAL USE ONLY	LINE NUMBER	A. PRO- CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY										FOR OFFICIAL USE ONLY														
		1. AMOUNT (specify)					2. UNIT OF MEA- SURE (enter code)								1. AMOUNT					2. UNIT OF MEA- SURE (enter code)																			
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
X-1	S 0 2	600											G		5																								
X-2	T 0 3	20											E		6																								
1	S 0 4	19,545											G		7																								
2															8																								
3															9																								
4															10																								
		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		

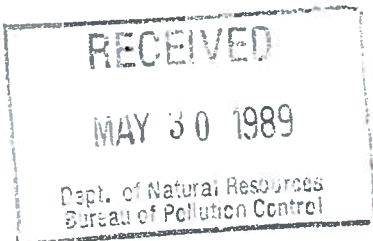
DIVISION OF SOLID WASTE

REVIEWED BY KL

DATE 5/30/89

COMMENTS Copy sent to
EPA 5/30/89

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



May 26, 1989

FEDERAL EXPRESS

Mr. Kaleel Rahaim
Mississippi Department of
Natural Resources
Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

Re: Part A Amendment;
Financial Assurance Documents
Koppers Industries, Inc. Facility
Grenada, Mississippi
MSD 007027543

Dear Mr. Rahaim:

The following constitutes our response to your letter dated May 3, 1989 requesting certain RCRA related documents. This letter was received by Beazer Materials and Services, Inc. (BM&S) on May 8, 1989.

Revised Part A, Section II.B - BM&S has revised Section II.B of the RCRA part A permit application. The revised page 1 is attached.

Financial Assurance Documents - We are currently in the process of amending the financial assurance documents for the Grenada facility. Current cost estimates include:

- o Closure - \$ 878,128
- o Post-Closure - \$1,614,304

The post-closure cost estimate for the boiler ash landfarm presented in your May 3, 1989 letter has been further adjusted by multiplying the inflation factor for 1988. BM&S utilizes a financial test (Alternative II) to demonstrate liability coverage and financial assurance. The above adjustments do not impact our ability to meet the financial test.

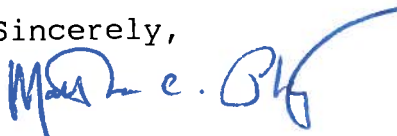
The documents have been forwarded to BM&S senior management for review and approval and signature by the Chief Financial Officer. We anticipate that these documents can be forwarded to your offices by June 16, 1989.

Mr. Kaleel Rahaim
May 26, 1989
2.

Operator Status of Boiler Ash Landfarm - As between the parties (i.e. Koppers Industries, Inc. and BM&S), BM&S has assumed liability for closure and post-closure activities for the boiler ash landfarm area. The post-closure permit will be issued to BM&S. A Groundwater Quality Assessment Plan (GWQAP) for the boiler ash landfarm was submitted to MSDNR on May 18, 1989. We are aware that additional studies incorporated in the GWQAP will be required for issuance of the post-closure care permit. As you indicated in our meeting on May 24, 1989, the closure plan has been approved and we are currently in the planning stages to initiate final closure activities; pending written approval.

We trust that this submittal satisfies your requirements at this time. Please call if you have any questions.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr

Enclosure

cc: R. Hamilton
B. Nolan
R. Vorpe
R. Clayton
J. Batchelder



436 Seventh Avenue, Suite 1940, Pittsburgh, PA 15219

RECEIVED

MAY 10 1989

Dept. of Natural Resources
Bureau of Pollution Control

July 8, 1987

Mr. Bill Turner
Supt. Treatment Operations
North Little Rock, Waste Water Utility
P. O. Box 842
North Little Rock, AR 72115

Dear Mr. Turner:

Enclosed for your review is a completed Industrial Discharge Permit Application for the Koppers Company, Inc. North Little Rock plant. If you have any questions or need additional information, please call me at 945-4581.

Sincerely,

David L. King

David L. King
Regional Environmental Coord.

w/o Enclosures

cc. D. R. Kerschner
R. C. Blankenbeker
R. M. Morosky
M. A. Franck
R. S. Ohlis

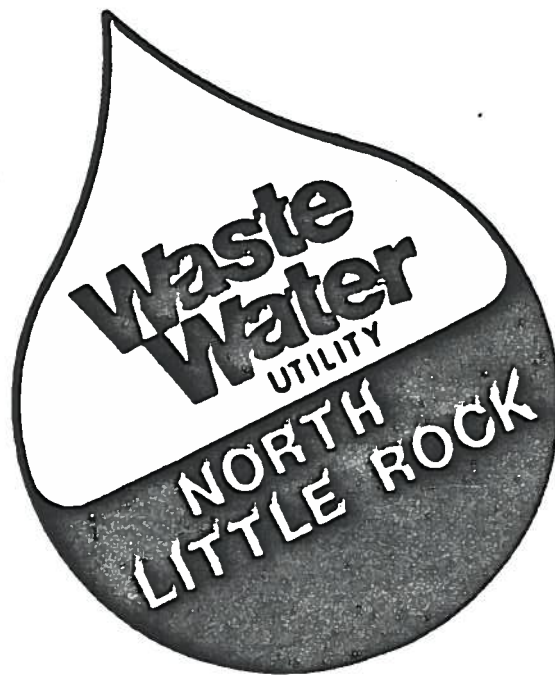
REGIONAL OFFICE

P. O. Box 15490

North Little Rock, Ar 72231

INDUSTRIAL DISCHARGE PERMIT APPLICATION

CITY OF NORTH LITTLE ROCK
ARKANSAS



NORTH LITTLE ROCK WASTE WATER UTILITY
701 West 29th Street • P.O. Box 842 • North Little Rock, Ark.

**PERMIT APPLICATION
INDUSTRIAL/COMMERCIAL DISCHARGE
NORTH LITTLE ROCK WASTE WATER UTILITY**

(Please Print or Type)

For
Waste
Water
Utility
Use
Only

Application Number

Date Received		
YEAR	MONTH	DAY

1. Name of organization responsible for industry Koppers Co., Inc.
Pittsburgh, PA 15219
2. Address, location, and telephone number of facility producing discharge:
 - a) Name Koppers Co., Inc.
 - b) Mailing address if other than North Little Rock. If located in North Little Rock proceed to Item c).
 1. Street Address P.O. Box 15490
 2. City North Little Rock 3. State AR
 4. Zip Code 72231
 - c) Proposed location of industry:
 1. Street Address 2201 Edmonds St.
 - d) Telephone Number (501) 945-4581
Area Code
3. Type of industry: (Please supply standard industrial classification number):
(SIC#) Timber Products Processing - SIC # 2491

If any of waste to be discharged is from processing or contains waste qualities other than domestic sewage, proceed to Item 4; otherwise, proceed directly to Item 5.

4. Furnish data on waste water constituents and characteristics.
supply representative chemical and biological analyses for items listed in the ordinance if applicable to the proposed discharge, not to exclude BOD, suspended solids, temperature (anticipated), and pH. See Attachment A
5. Disclosure of time and duration of discharge: A continuous discharge is anticipated.
6. Furnish average daily and instantaneous peak waste water flow rates, in gallons per day, including known or anticipated daily, monthly, and seasonal variations, if any:
See Attachment B
7. Furnish Site Plans, Floor Plans, Mechanical and Plumbing Plans to show all sewers, sewer connections, inspection manholes, sampling chambers and appurtenances by size, location, and elevation. (Ref. MSL)
See Attachment C
8. Furnish general description of activities, facilities, and plant processes on the premise including all materials which are or may be discharged to the sewers or treatment works of the Authority.
See Attachment D
9. Furnish disclosure of the nature and concentration of any pollutants or materials prohibited by Pre-Treatment Ordinance No. 5592 in the discharge, together with a statement regarding whether or not compliance is being achieved with this ordinance

on a consistent basis and if not, whether additional operation and maintenance activities and/or additional pretreatment are necessary for the discharge to comply with this ordinance.

- See Attachment E
10. Where additional pretreatment and/or operation and maintenance activities will be required to comply with this Ordinance, the Discharger shall provide a declaration of the shortest time schedule by which the Discharger will provide such additional pretreatment and/or implementation of additional operation and maintenance activities.

The schedule shall contain milestones dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the Discharger to comply with the requirements of this Ordinance including, but not limited to dates relating to retaining a design professional and appropriate personnel, completing preliminary plans, completing final plans, executing contract(s) for major components, commencing construction, and all other acts necessary to achieve compliance with this Ordinance. See Attachment F

11. Furnish list of products by type: Treated wood products:
railroad cross ties, bridge ties, lumber, switch ties & piling.
12. Furnish list of raw materials utilized: _____
1. Season and unseasoned lumber - including, but not
limited to railroad cross ties and piling.
2. Creosote
3. Petroleum (similar to a #6 fuel oil)

I certify that I am familiar with the information contained in this Application and that to the best of my knowledge and belief, such information is true, complete, and accurate.

James R. Batchelder

Typed Name of Person Signing

Vice President, Environmental and
Technical Services

Title

June 25, 1987

Date Application Signed


Signature of Applicant

ATTACHMENT A

Presented in Table 1 are representative analyses of Koppers North Little Rock Treated Wood Products plant existing wastewater quality following oil/water separation treatment. Included in this table are data for three sampling rounds. Sampling conducted on 2-11-87 was performed to fulfill the sampling requirements of North Little Rock Waste Water Utility Pre-Treatment Ordinance No. 5592. The results for the sampling conducted on 1-28-87 are included to account for analyses not performed for the 2-11-87 sampling due to sample bottles being broken during transport. In addition, results from a characterization study performed on 4-25-85 have been included to provide information regarding the variation of wastewater quality at the plant. A statistical summary of data for the three sampling rounds is provided in Table 1.

It should be noted that Koppers is in the process of upgrading their existing treatment system to achieve a wastewater of discharge quality. The upgraded system is expected to consist of oil/water separation followed by biological treatment. A conceptual design of the upgraded treatment system along with a projection of the expected effluent quality is due to be completed by August 1, 1987 and will be made available upon request. It is anticipated that the temperature of the effluent from the upgraded system will be in the range of 20 °C - 30 °C.

Koppers also operates a wood treating facility in Galesburg, Illinois which is similar to the North Little Rock plant. The wastewater treatment system at Galesburg consists of oil/water separation followed by biological treatment. A statistical summary of representative analyses of the existing wastewater quality at Galesburg are presented in Table 2. Comparison with the North Little Rock data indicates that the wastewater following oil/water separation at both plants is similar in

quality. Based on the presented data and past experiences with other wood treating facilities, effluent from Koppers North Little Rock upgraded treatment system is expected to be similar in quality to the effluent from Koppers Galesburg biological treatment system.

TABLE 1

**Representative Analyses of Koppers North Little Rock
Treated Wood Products Plant Wastewater Following
Oil/Water Separation Treatment**

Parameter(a)	Secondary Oil/Water Separator			Statistical Summary of			ISCO Field
	Effluent Data			Effluent Data			
Sample Date	4-25-85(b)	1-28-87(b)	2-11-87(c)	Average	Minimum	Maximum	2-11-87
pH	4.6	7.7	7.8	6.7	4.6	7.8	5.5
Alkalinity as CaCO3 to pH = 4.5 units	---(e)	248	244	246	244	248	0.9
Conductivity	---	910	1100	1005	910	1100	< 1.0
Biochemical Oxygen Demand (5-day)	1267	1180	783	1077	783	1267	< 1.0
Chemical Oxygen Demand	2250	1400	*(f)	1825	1400	2250	< 10.0
Total Organic Carbon	717	547	*	632	547	717	< 1.0
Oil and Grease	5.5	10.5	9.9	8.6	5.5	10.5	< 5.0
Ammonia Nitrogen	---	< 0.010	0.306(g)	< 0.158	< 0.010	0.306	< 0.010
Phenols	224	113	*	169	113	224	0.007
Pentachlorophenol	0.230	0.913	0.188	0.444	0.188	0.913	< 0.001
Total Suspended Solids	32.0	21.0	6.0	19.7	6.0	32.0	1.0
Volatile Suspended Solids	32.0	20.0	6.0	19.3	6.0	32.0	1.0
Fixed Suspended Solids	0	1.0	0	0.3	0	1.0	0
Total Dissolved Solids	602	486	461	516	461	602	22.0

TABLE 1 (continued)

Parameter(a)	Secondary Oil/Water Separator				Statistical Summary of				Isco Field
	Effluent Data			Effluent Data			Blank(d)		
Date Sampled	<u>4-25-85(b)</u>	<u>1-28-87(b)</u>	<u>2-11-87(c)</u>	<u>Average</u>	<u>Minimum</u>	<u>Maximum</u>	<u>2-11-87</u>		
Total Kjeldahl Nitrogen	41.0	120.1	*	80.6	41.0	120.1	1.01		
Total Phosphates as Phosphorus	3.0	82.8(g)	*	42.9	3.0	82.8	23.8(g)		
Chloride	---	148	181	165	148	181	< 1.0		
Sulfate	---	< 10.0	25.7	< 17.9	< 10.0	25.7	< 10.0		
Arsenic	0.015	< 0.010	*	< 0.013	< 0.010	0.015	< 0.010		
Barium	---	< 0.200	*	< 0.200	< 0.200	< 0.200	< 0.200		
Boron	---	< 0.100	*	< 0.100	< 0.100	< 0.100	< 0.100		
Cadmium	---	< 0.005	*	< 0.005	< 0.005	< 0.005	< 0.005		
Chromium	< 0.005	< 0.010	*	< 0.008	< 0.005	< 0.010	< 0.010		
Copper	< 0.05	0.0289	*	< 0.0395	< 0.050	0.289	< 0.025		
Lead	---	< 0.005	*	< 0.005	< 0.005	< 0.005	< 0.005		
Manganese	---	0.781	*	0.781	0.781	0.781	< 0.015		
Mercury, ug/L	---	0.269	*	0.269	0.269	0.269	< 0.200		
Nickel	---	< 0.040	*	< 0.040	< 0.040	< 0.040	< 0.040		
Selenium	---	< 0.005	*	< 0.005	< 0.005	< 0.005	< 0.005		
Silver	---	< 0.010	*	< 0.010	< 0.010	< 0.010	< 0.010		
Zinc	---	0.254	*	0.254	0.254	0.254	< 0.020		

TABLE 1 (continued)

Parameter(a)	Secondary Oil/Water Separator			Statistical Summary of			Isco Field
	Effluent Data			Effluent Data			
	4-25-85(b)	1-28-87(b)	2-11-87(c)	Average	Minimum	Maximum	
Polynuclear Aromatic Hydrocarbons, ug/L							
Naphthalene	---	2550	6450	4500	2550	6450	2.44
Carbazole	---	< 0.250	0.626	< 0.438	< 0.250	0.626	< 0.250
Acenaphthylene	---	8.79	11.7	10.2	8.79	11.7	< 0.250
Acenaphthene	---	214	253	234	214	253	< 0.250
Fluorene	---	129	140	135	129	140	< 0.250
Anthracene	---	29.4	42.0	35.7	29.4	42.0	< 0.250
Phenanthrene	---	216	212	214	212	216	1.31
Fluoranthene	---	48.8	41.2	45.0	41.2	48.8	0.444
Pyrene	---	32.6	25.9	29.3	25.9	32.6	< 0.250
Benzo (a) anthracene	---	3.72	2.58	3.15	2.58	3.72	2.72
Chrysene	---	6.34	5.58	5.96	5.58	6.34	< 0.250
Benzo (b) fluoranthene	---	4.33	2.54	3.44	2.54	4.33	< 0.250
Benzo (k) fluoranthene	---	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	3.40
Benzo (a) pyrene	---	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250
Dibenzo (a,h) anthracene	---	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250	< 0.250
Benzo (g,h,i) perylene	---	2.73	< 0.250	< 1.49	< 0.250	2.73	< 0.250
Ideno (1,2,3,-c,d) pyrene	---	0.640	0.317	0.479	0.317	0.640	1.52

TABLE 1 (continued)

- (a) - All results are in mg/L unless otherwise noted.
- (b) - Grab sample. These results were included to account for analyses not performed for 2-11-87 sampling due to sample bottles being broken during transport.
- (c) - 24-hour composite sample obtained at one-half hour intervals with an Isco sampler (48 samples of 180 ml each).
- (d) - Distilled water passed through the Isco sampler prior to sampling.
- (e) - "----" indicates not analyzed.
- (f) - "***" indicates not analyzed due to sample bottles being broken during transport.
- (g) - Suspect analytical interferences.

NOTE: Field and trip blank analyses for all three sampling dates are available upon request.

TABLE 2

**Statistical Summary of
Wastewater Data from Koppers Galesburg, Illinois
Treated Wood Products Plant(a)**

Parameter(b)	Oil/Water Separator Effluent			Biological Treatment System Effluent		
	Average(c)	Minimum	Maximum	Average(c)	Minimum	Maximum
pH, units	8.5	7.9	9.0	7.3	7.1	7.5
Biochemical Oxygen Demand (Total)	744	480	970	29	26	31
Biochemical Oxygen Demand (Soluble)	592	320	870	5.5	2.0	7.0
Chemical Oxygen Demand (Total)	2056	1025	3000	388	150	575
Chemical Oxygen Demand (Soluble)	1475	875	2000	149	120	175
Total Organic Carbon	396	226	536	39	37	42
Oil and Grease	89.5	21.5	160	< 5.4	< 5.0	6.3
Cyanide	0.176	0.076	0.295	0.032	0.025	0.037
Phenols	92.6	32.5	137	0.046	0.037	0.066
Total Suspended Solids	148	52	348	220	4	320
Volatile Suspended Solids	85	52	136	153	0	188
Fixed Suspended Solids	64	0	218	67	0	316
Detectable Volatile Organics(d), ug/L						
Benzene	147	110	180	< 10	< 10	< 10
Toluene	243	180	290	< 10	< 10	< 10
Ethylbenzene	124	82	150	< 10	< 10	< 10
Polynuclear Aromatic Hydrocarbons, ug/L						
Naphthalene	24375	19500	32000	< 5	< 5	< 5
Acenaphthylene	430	180	680	< 0.88	< 0.40	1.1
Acenaphthene	6038	2550	9200	1.2	0.43	1.9
Fluorene	4900	1900	7600	1.8	1.3	2.3
Anthracene	1365	360	2100	7.0	4.0	10
Phenanthrene	11300	3200	17500	4.3	2.3	5.5
Fluoranthene	6550	2000	10500	22	12	30
Pyrene	3975	1150	6400	25	12	33
Benzo (a) anthracene	1258	420	2000	13	7.1	17
Chrysene	993	370	1650	15	10	25
Benzo (b) fluoranthene	450	210	710	103	53	150
Benzo (k) fluoranthene	273	110	450	32	17	45
Benzo (a) pyrene	470	180	810	150	71	230
Dibenzo (a,h) anthracene	33	18	57	13	7.1	20
Benzo (g,h,i) perylene	108	35	91	59	35	190
Ideno (1,2,3-c,d) pyrene	133	52	230	72	44	110

a) - Sampling conducted during May and June of 1986.

b) - All results are in mg/L unless otherwise noted.

c) - Average of four sampling rounds - except Detectable Volatile Organics which are an average of three sampling rounds.

d) - Priority pollutant volatile organics not shown were below detection in both the influent and effluent.

ATTACHMENT B

The daily volume and characteristics of the individual wastewater streams generated at Koppers North Little Rock facility are highly variable. This is due to fluctuating production rates, the irregular generation of several different process wastewaters, and the required treatment of rainfall runoff from segregated process areas. For this reason, a wastewater surge tank is used for flow equalization.

Presented in Table 3 are the plant's average, instantaneous maximum and instantaneous minimum flowrates. This data is based on measured wastewater flowrates and projected wastewater flows that will be generated from plant modifications. The data presented is preliminary and will be better defined with the completion of the upgraded treatment system conceptual design.

It should be noted that the volume of water acquired by the plant from the North Little Rock water authority is not a good indicator as to the volume of wastewater generated at Koppers North Little Rock facility. This is due to:

- o the use of this water to replenish process and cooling waters lost as evaporation,
- o the use of an on-site septic system for treatment of the plant's sanitary wastes,
- o the generation of wastewater originating as wood moisture, and
- o the required treatment of rainfall runoff from process areas.

TABLE 3

**Wastewater Flowrates for Koppers North Little Rock
Treated Wood Products Plant**

<u>Wastewater Stream(a)</u>	<u>Average</u>	<u>Instantaneous Maximum</u>	<u>Instantaneous Minimum</u>
Rainfall Runoff from Process Areas	4600(b)	11,520(c)	0
Boultonizing Process Wastewater(d)	2900	17,000	0
Boiler Blowdown Condensate(e)	2800	5760	0
Recycled Creosote Dehydrator Condensate(f)	1500	2000	0
Deaeration Tank Steam Blowdown Condensate(e)	380	1400	0
Steam Conditioning Process Wastewater(g)	200	2000	0
Vacuum Pump Seal Wastewater(g)	140	1400	0
Water Softener Blowdown	*(h)	*	0
Total Wastewater Flow	12,520	41,080	0

(a) - All results are in gallons per day.

(b) - Based on an average rainfall of 48 inches per year.

(c) - Based on a projected maximum flow of 8 gallons per minute.

(d) - Based on measured wastewater flows and maximum production rate.

(e) - Based on steam usage.

(f) - Based on the moisture content of recycled creosote and the capacity of the dehydrator. The dehydrator is presently vented to the atmosphere but it is anticipated that a condensor will be installed.

(g) - Based on the capacity of the vacuum pump.

(h) - " * " indicates insignificant (2400 gallons/year).

TABLE 4**Comparison of Koppers North Little Rock Treated Wood Products Plant
Wastewater with Pretreatment Limits**

Parameter(a)	Existing Effluent Quality(b)	Projected Effluent Quality(c)	Pretreatment Ordinance Limits(d)	Federal Pretreatment Standards(e)
pH (units)	6.7	7.3	6 - 9	---
Phenol	170	0.046	0.5	---
Oil and Grease	10	5.0	100	100
BOD	1100	30	250	---
Sulfate	18	---	250	---
Chloride	165	---	500	---
TSS	20	220	---	---
Arsenic	0.013	---	0.05	4
Barium	< 0.200	---	5.0	---
Boron	< 0.100	---	1.0	---
Cadmium	< 0.005	---	0.02	---
Chromium (Total)	< 0.010	---	0.5	4
Copper	0.04	---	0.2	5
Cyanide	0.16	0.032	0.05	---
Lead	< 0.005	---	0.1	---
Manganese	0.78	---	1.0	---
Mercury (ug/L)	0.269	---	5.0	---
Nickel	< 0.04	---	0.8	---
Selenium	< 0.005	---	0.02	---
Silver	< 0.010	---	0.1	---
Zinc	0.25	---	0.5	---

TABLE 4 (continued)

-
- a - All results are in mg/L unless otherwise noted.**
 - b - Based on characterization data presented in Table 1 of Attachment A.**
 - c - Based on characterization data presented in Table 2 of Attachment A. This data is preliminary and will be better defined at the completion of the upgraded treatment system conceptual design.**
 - d - Obtained from the North Little Rock, Arkansas Industrial Pretreatment Program Document, July 1983.**
 - e - Obtained from 40 CFR Part 429 Subpart H - Wood Preserving - Boulton Subcategory, Pretreatment Standards for Existing Sources (429.95).**

ATTACHMENT C

Plans and drawings detailing sewers, sewer connections, inspection manholes and sampling chambers will be forwarded upon completion of the upgraded treatment system detailed design. No sewers or sewer connections currently exist on the plant's property.

ATTACHMENT D

Koppers North Little Rock plant primarily produces railroad ties treated with a fifty-fifty or thirty-seventy creosote-petroleum preservative. Pentachlorophenol was also used as a preservative at the plant prior to 1982, and is no longer used at the facility.

The wood preserving process utilized at the plant consists of the two basic steps:

- 1) preconditioning the wood to reduce its natural moisture content and to increase the permeability, and
- 2) impregnating the wood with a creosote-petroleum preservative.

Sources of wastewater generated from the wood preserving process include:

- o boultonizing process wastewater, and
- o steam conditioning process wastewater.

Additional sources of wastewater from the plant include the following:

- o boiler blowdown condensate,
- o recycled creosote dehydrator condensate (anticipated),
- o deaeration tank steam blowdown condensate,
- o vacuum pump seal wastewater,
- o water softener blowdown, and
- o rainfall runoff from process areas.

The following is a list of materials which may be present in the wastewater discharged to the North Little Rock Wastewater Utility treatment works:

- o trace amounts of creosote constituents,
- o trace amounts of petroleum constituents,
- o trace amounts of polymer used to enhance oil/water separation,
- o trace amounts of residual pentachlorophenol remaining in the plant's wastewater treatment system,
- o boiler water conditioning additives, and
- o salts from softener regeneration.

ATTACHMENT E

Provided in Table 4 is a comparison of Koppers North Little Rock Treated Wood Products plant existing and projected effluent quality with applicable pretreatment limits. As can be seen in Table 4, Koppers existing wastewater will require additional pretreatment to comply with the city ordinance. In particular, additional pretreatment for removal of phenols and BOD is necessary. Cyanide was also found at a concentration above its discharge limit but analytical interferences are suspected to have inflated this value. Even at its detected concentration, removal of cyanide to below its discharge limit is not expected to be a problem. Substances detected at concentrations below their respective discharge limit include:

- o oil and grease,
- o chloride,
- o sulfate,
- o copper,
- o manganese,
- o mercury, and
- o zinc.

Several alternatives for providing additional pretreatment of the plant's wastewater are presently being evaluated. Based on past experiences with similar treated wood products plants and the data presented in Attachment A, it is anticipated that the treatment system chosen for implementation will be capable of consistent compliance with all discharge limits.

ATTACHMENT F

In order to achieve compliance with Pre-Treatment Ordinance No. 5592, the following activities have been scheduled:

	Scheduled Start -----	Scheduled Finish -----
1) Technical Evaluation of Treatment Alternatives	In Progress	May 1, 1987
2) Cost Evaluation of Treatment Alternatives	May 1, 1987	June 1, 1987
3) Conceptual Design of Treatment System Chosen for Implementation	June 1, 1987	August 1, 1987
4) Conceptual Design Review	August 1, 1987	September 1, 1987
5) Detailed Design	September 1, 1987	February 1, 1988
6) Equipment Procurement	November 15, 1987	April 15, 1988
7) Construction	February 1, 1988	August 1, 1988
8) Equipment Check and Start-Up	August 1, 1988	September 15, 1988
9) Compliance Demonstration	September 15, 1988	October 1, 1988
10) Hook-Up With City Sewer System	October 1, 1988	-----

Keystone Environmental Resources, Inc. and Koppers Company, Inc. will perform all of the required work thru equipment procurement. Koppers Chemical and Allied Products engineering group will perform the detailed design work. Sufficient personnel (including professional design engineers) are available within Keystone and Koppers to perform this work. Qualified subcontractors will be retained to perform construction

activities. Keystone and Koppers management personnel will oversee all activities.

STATE OF COLORADO

COLORADO DEPARTMENT OF HEALTH

4210 East 11th Avenue
Denver, Colorado 80220
Phone (303) 320-8333



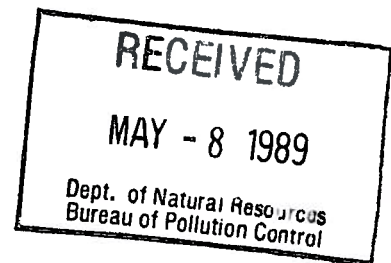
Roy Romer
Governor

Thomas M. Vernon, M.D.
Executive Director

April 21, 1988

CERTIFIED MAIL # P670158198
Return Receipt Requested

The Corporation Company
Agent for Service, Koppers Company, Inc.
1600 Broadway
Denver, Colorado 80202



Dear Sirs:

You are hereby served with Compliance Order No. 88-4-21-1 issued by the Hazardous Materials and Waste Management Division of the Colorado Department of Health ("the Department") pursuant to Section 25-15-308 (2) C.R.S. (1982 and 1985). This Order is based upon findings by the Hazardous Materials and Waste Management Division of the Colorado Department of Health that Koppers Company, Inc. has violated the Colorado Hazardous Waste Act, Sections 25-15-301 through 313, C.R.S. ("the Act") as more particularly described in the enclosed Compliance Order.

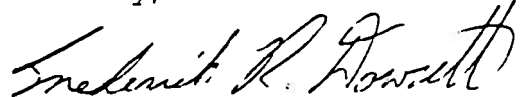
Please take note that the Department is willing to meet with you within twenty (20) calendar days after your receipt of this Order to discuss the existence and gravity of the violation(s). I urge you to take advantage of this opportunity to discuss this matter with the Department. If you do not request a meeting within ten (10) calendar days of receipt of this Order, you are hereby notified that the enclosed Compliance order will then become effective immediately.

You are also hereby notified that the Department intends to seek a civil penalty from Koppers Company, Inc. in this matter as authorized by Sections 25-15-308 and 309 of the Act. The amount of the penalty will be influenced by a variety of factors including the seriousness of the violation(s), the potential for harm resulting from the violation(s) and the performance of Koppers Company, Inc. in quickly complying with the terms of the enclosed Compliance Order. A copy of the penalty policy used by the Division will be made available to you upon request. The Act authorizes the Department to seek penalties of up to \$25,000 for each day of each violation of the Act, the regulations implementing the Act, or the enclosed Order.

Should you desire to schedule a meeting or wish to discuss the technical aspects of this matter, please call Walter Avramenko or Nancy Jackson at the Division (telephone 303/331-4830). If you have retained legal counsel, he or she may contact Jerry W. Goad at the Colorado Attorney General's Office (telephone 303/866-5058) to discuss the legal aspects of the case.

I urge you to give this matter your immediate attention.

Sincerely,



Frederick R. Dowsett, Unit Leader
Hazardous Waste Monitoring and
Enforcement Unit
Hazardous Materials and Waste
Management Division

Enclosure:

Compliance Order No. 88-4-21-1

cc w/ encl:

Diana Shannon, Environmental Protection Agency
Charles Brinkman, Environmental Protection Agency
Jerry W. Goad, Colorado Attorney General's Office

Bernard Maloney, Plant Manager, Koppers Company, Inc.
465 West 56th Avenue, Denver, 80216

BEFORE THE HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION
DEPARTMENT OF HEALTH
STATE OF COLORADO

COMPLIANCE ORDER

NO. _____

IN THE MATTER OF KOPPERS COMPANY, INC.

This Compliance Order is being issued by the Colorado Department of Health through the Hazardous Materials and Waste Management Division ("the Department") to the Koppers Company, Inc. ("Koppers") pursuant to the Department's authority under Section 25-15-308, C.R.S. (1982 and 1987 Supp.).

GENERAL FINDINGS

1. Koppers Company, Inc. is a Delaware corporation doing business in Colorado.
2. Koppers is engaged in the preservation and treatment of wood products using creosote, pentachlorophenol and inorganic compounds at a facility located at 5601 West Fox Street in Denver, Colorado ("the facility").
3. Koppers has notified as a generator, transporter and treatment, storage and disposal facility in accordance with the requirements of 6 CCR 1007-3, Part 99. Koppers has received interim status for two hazardous waste surface impoundments ("surface impoundments") and a hazardous waste container storage area ("container storage area").
4. Koppers generates or has generated several hazardous wastes at the facility, including pentachlorophenol (F027), wastes from the production or manufacturing use of pentachlorophenol or its intermediates (F021), creosote (U051), bottom sediment sludge from a wood preserving process (K001), arsenic (D004), and lead (D008).
5. On March 22, 1985, the Department sent Koppers a letter requesting Koppers to submit a Part B application for a permit to operate a hazardous waste management facility under the Colorado Hazardous Waste Management Act pursuant to 6 CCR 1007-3, Section 100.11(b)(1).
6. On October 29, 1985, the Department received a copy of Koppers closure plan for the two surface impoundments located at the facility.

7. In November, 1985, Koppers implemented a groundwater monitoring program to monitor ground water quality in the vicinity of the two surface impoundments in accordance with the provisions of 6 CCR 1007-3, Sections 265.91 and 265.92. One upgradient and three downgradient monitoring wells were installed and sampled on a quarterly basis.
8. On March 31, 1986, the Department issued Koppers a Notice of Disapproval for their closure plan for the two surface impoundments located at the facility.
9. On July 1, 1986, the Department received a revised closure plan from Koppers for the two surface impoundments.
10. On September 28, 1987, the Department conducted a routine hazardous waste compliance inspection at the Koppers facility. The inspection consisted of touring and photographing the hazardous waste management units, reviewing records, and interviewing facility employees.

FIRST VIOLATION

(Failure to complete closure according to the approved schedule)

11. The General Findings set forth in paragraphs 1 through 10 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

12. On March 13, 1987, Koppers received the Department's final approval for closure of the two surface impoundments located at the facility. Contained within that plan is a schedule of closure activities to be performed and their completion dates.

Conclusions of Law

13. 6 CCR 1007-3, Section 265.113(b) states that the owner or operator must complete closure activities in accordance with the approved closure plan and within 180 days after receiving the final volume of waste or 180 days after approval of the closure plan, if that is later.
14. A comparison of the closure plan schedule with the dates of when the work was actually completed shows that Koppers has failed to adhere to the timetable contained within the approved closure plan.
15. Koppers' failure to complete closure in accordance with the schedule contained in the Department approved closure plan constitutes a violation of 6 CCR 1007-3, Section 265.113(b).

SECOND VIOLATION
(Failure to submit a ground water quality
assessment plan)

16. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 15 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

17. During the first year that Koppers' RCRA ground water monitoring system was in operation, Koppers established initial background concentrations or values for all parameters specified in 6 CCR 1007-3, Section 265.92(b). After the first year that background data was collected, statistical comparisons were performed using this analytical data to determine if statistically significant changes over initial background concentrations were observed.
18. The results of the statistical evaluations were reported in Koppers 1986 Annual Ground Water Monitoring Report submitted to the Department on February 27, 1987. Statistically significant increases in ground water contamination were determined for all three downgradient monitoring wells at the facility.
19. The data also indicated that the concentrations of arsenic and chromium in the downgradient wells consistently exceeded U.S. Environmental Protection Agency ("U.S. EPA") interim primary drinking water standards as well as the State of Colorado primary drinking water standards. Lead and selenium concentrations occasionally exceeded these same drinking water standards.
20. Analytical data obtained from ground water samples collected in November and December 1985 reveal that measurable quantities of various phenols and polynuclear aromatic hydrocarbons have been detected in the downgradient RCRA monitoring wells.

Conclusions of Law

21. 6 CCR 1007-3, Section 265.93(d) states that within 15 days after the notification of statistically significant changes in the ground water indicator parameters, the facility owner and operator must develop and submit to the Department a specific plan for a ground water quality assessment program that will, at a minimum, determine (a) the rate and extent of migration of the hazardous waste or hazardous waste constituents in the ground water, and (b) the concentrations of the hazardous waste or hazardous waste constituents in the ground water. The owner or operator must implement the ground water quality assessment plan as soon as technically feasible, and within 15 days after completing the program, submit to the Department a written report containing an assessment of ground water quality.
22. Koppers' failure to submit a site specific ground water quality assessment plan within the required time period constitutes a violation of 6 CCR 1007-3, Section 265.93(2).

THIRD VIOLATION

(Failure to submit a written estimate of post-closure maintenance and monitoring costs)

23. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 22 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

24. In a report submitted to the Department on February 27, 1987, Koppers notified the Department of statistically significant changes in the ground water indicator parameters for all three downgradient monitoring wells.
25. On March 27, 1987, Koppers submitted to the Department their annual financial test in accordance with the provisions of 6 CCR 1007-3, Section 266.14.
26. In an August 10, 1987 letter to the Department, Koppers reports that boring samples collected in accordance with the approved closure plan indicate that soils underlying the surface impoundments contain levels of wood-treating chemicals that exceed background concentrations. As a result, Koppers indicated that it intends to pursue closure of the impoundments as a landfill.
27. On September 21, 1987, the Department received a further revised closure plan from Koppers. The plan addresses activities associated with the closure of the two surface impoundments as a hazardous waste landfill at the Koppers facility.

Conclusions of Law

28. 6 CCR 1007-3, Section 266.13 requires the owner or operator of a disposal facility to prepare a written estimate, in current dollars, the cost of post-closure monitoring and maintenance in accordance with the applicable post-closure regulations in 6 CCR 1007-3, Sections 254.117 through 264.120.
29. Following the determination of statistically significant changes in the ground water indicator parameters, Koppers has failed to prepare and submit a written estimate of post-closure monitoring and maintenance costs. This is a violation of 6 CCR 1007-3, Section 266.13.

FOURTH VIOLATION

(Disposal of hazardous waste at an unapproved facility)

30. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 29 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

31. The Koppers Company generates a waste stream from the work tank and treatment cylinder.
32. The wastes removed from the work tank and treatment cylinder consist of creosote mixed with sand, gravel and wood chips which have infiltrated the tanks over time.
33. The wastes removed from the treatment cylinder and work tank are shipped by Koppers as non-hazardous waste to the Koppers facility in Granada, Mississippi for disposal.

Conclusions of Law

34. Creosote is listed as a hazardous waste, U051, under 6 CCR 1007-3, Section 261.33(f).
35. Under 6 CCR 1007-3, Section 261.3, when a solid waste is mixed with a hazardous waste, the entire mixture is considered to be a hazardous waste unless that mixture has been specifically exempted by the Department.
36. The Department has never exempted from regulation a mixture of creosote (U051) and solid waste.
37. Under 6 CCR 1007-3, Section 100.10 and 40 CFR Section 270.1(b), a facility may not treat or dispose of hazardous waste without having interim status or a Part B permit issued by the Environmental Protection Agency or the State hazardous waste management program.
38. The Koppers facility in Granada, Mississippi does not have interim status or a Part B permit to treat or dispose of hazardous waste.
39. Koppers' shipment of hazardous waste to an unapproved facility constitutes a violation of 25-15-308 C.R.S. (1982 and 1987 Supp.) and 6 CCR 1007-3, Section and 100.10.

FIFTH VIOLATION

(Failure to label containers)

40. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 39 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

41. During the September 28, 1987 inspection of the Koppers facility, the inspectors observed approximately thirty 55-gallon drums in the container storage area.
42. Koppers identified the drums as containing the creosote and sand/gravel/wood chips mixture.

43. The inspectors observed that the containers were labeled as "non-hazardous waste".

Conclusions of Law

44. As discussed in Paragraphs 34 and 35, the creosote and sand/gravel/wood chips mixture is a hazardous waste.
45. 6 CCR 1007-3, Section 262.34(a) requires that hazardous waste being accumulated on-site must be clearly labeled with the words "hazardous waste".
46. Koppers' failure to correctly label containers of hazardous waste being stored on-site constitutes a violation of 6 CCR 1007-3, Section 262.34(a).

SIXTH VIOLATION

(Storage of hazardous waste)

47. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 46 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

48. During the September 28, 1987 inspection, the inspectors observed that the contents of the two surface impoundments being closed had been placed into 3 waste piles. According to Koppers, the waste piles were created in July, 1987.
49. Koppers does not have interim status or Part B permit for storage of hazardous waste in waste piles. Additionally, Koppers has not requested the Department to amend Koppers' Part A application to include storage of hazardous waste in waste piles.

Conclusions of Law

50. 25-15-308 C.R.S. (1982 and 1987 Supp.) and 6 CCR 1007-3, Section 100.10 prohibit the storage of hazardous waste in units which do not have interim status or a Part B permit issued by the Department or the U.S. EPA.
51. Koppers' storage of hazardous waste in waste piles without interim status or a Part B permit constitutes a violation of 25-15-308 C.R.S. (1982 and 1987 Supp.) and 6 CCR 1007-3, Section 100.10.

SEVENTH VIOLATION

(Inadequate security)

52. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 51 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

53. During the September 28, 1987 inspection, the inspectors observed that there was no security structure around the surface impoundments or waste piles.

Conclusions of Law

54. 6 CCR 1007-3, Section 265.14(a) requires that a facility prevent the unknowing and unauthorized entry of persons and livestock onto the active portion of the facility.
55. Koppers' failure to provide security to prevent unauthorized or unknowing entry onto the active portions of the facility constitutes a violation of 6 CCR 1007-3, Section 265.14(a).

EIGHTH VIOLATION

(Failure to post warning signs)

56. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 55 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Facts

57. During the September 28, 1987 inspection, the inspectors observed that there were no warning signs posted around the waste piles.

Conclusions of Law

58. 6 CCR 1007-3, Section 265.14(c) requires that a facility post warning signs at each entrance to the active portion of the facility in sufficient numbers to be visible from any approach to the active area.
59. Koppers' failure to post warning signs around the waste piles constitutes a violation of 6 CCR 1007-3, Section 265.14(c).

NINTH VIOLATION

(Inadequate personnel training records)

60. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 59 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

61. During the September 28, 1987 inspection, the inspectors noted that the Koppers training records did not include a description of the on-the-job training for hazardous waste management or a description of the training or qualifications of the persons conducting the training. In addition, job descriptions pertaining to hazardous waste management are not maintained at the facility.

62. The inspectors also noted during the September 28, 1987 inspection that personnel training records for current Koppers employees did not include all years since 1980.

Conclusions of Law

63. 6 CCR 1007-3, Section 265.16 requires that the facility personnel training program and records include a description of the classroom and on-the-job hazardous waste training given to facility employees, and a description of the training or qualifications of the persons conducting the training. Also required are job titles and job descriptions for facility employees pertaining to hazardous waste management responsibilities.
64. 6 CCR 1007-3, Section 265.16(e) requires that all personnel training records for current employees be kept at the facility until the facility closes. Training records for past employees must be kept at the facility for at least 3 years from the date the employee last worked at the facility.
65. Koppers' failure to document on-the-job training and failure to maintain complete training records constitutes a violation of 6 CCR 1007-3, Section 265.16.

TENTH VIOLATION

(Inadequate contingency plan)

66. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 65 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

67. During the September 28, 1987 inspection, the inspectors noted that the Koppers facility hazardous waste contingency plan did not contain an accurate list of the facility emergency response equipment, its locations, and its capabilities. In addition, the contingency plan did not contain an evacuation plan for the facility.

Conclusions of Law

68. CCR 1007-3, Section 265.52(e) requires that the facility contingency plan contain an up-to-date list of all emergency equipment, spill control equipment, communication and alarm systems at the facility. The list must include the location, physical description, and capabilities of the equipment.
69. 6 CCR 1007-3, Section 265.52(f) requires that the facility contingency plan contain an evacuation plan for facility personnel.
70. Koppers' failure to include a complete and up-to-date list of facility emergency response equipment and facility evacuation plan in the contingency plan constitutes a violation of 6 CCR 1007-3, Sections 265.52(e) and (f).

ELEVENTH VIOLATION
(Inadequate inspection program)

71. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 70 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

72. During the September 28, 1987 inspection, the inspectors noted that Koppers inspection program did not include inspection of facility emergency response equipment, areas subject to spills, and the waste pile storage area. In addition, the inspectors noted that there were several skips in dates of inspection records.

Conclusions of Law

73. 6 CCR 1007-3, Sections 265.15, 265.174, and 265.226 require the facility inspection program include inspection and documentation of inspections of all monitoring and safety equipment, areas subject to spills, and all interim status units according to schedules contained within the regulations.
74. Koppers' failure to conduct inspections at all required areas, and maintain documentation for all inspections, according to a written inspection plan constitutes a violation of 6 CCR 1007-3, Sections 265.15, 265.174, and 265.226.

TWELFTH VIOLATION
(Inadequate operating record)

75. The Findings of Fact and Conclusions of Law set forth in paragraphs 1 through 74 of this Compliance Order are incorporated by reference as though fully set forth herein.

Findings of Fact

76. During the Department's September 28, 1987 facility inspection, the inspectors noted that the Koppers' operating record did not include a description of the amount and location of hazardous waste stored in the waste piles.

Conclusions of Law

77. 6 CCR 1007-3, Section 265.73(a)(2) requires that a description of the location and quantity of each hazardous waste be included in the facility operating record.
78. Koppers' failure to include a description of the location and quantity of hazardous waste stored in the waste piles constitutes a violation of 6 CCR 1007-3, Section 265.73(a)(2).

ORDER

Based on the foregoing Findings of Fact and Conclusions of Law, and pursuant to Section 25-15-308 C.R.S. (1982 and 1987 Supp.), Koppers is hereby ordered to comply with the following:

First Violation

79. Within 30 days from the effective date of this Order, Koppers shall submit to the Department a written document explaining why Koppers has failed to adhere to the approved closure schedule for the two surface impoundments. This same document shall also contain a modified schedule of closure activities, indicating what Koppers will need to do, and when in order for Koppers to complete closure activities at the two impoundments.

Second Violation

80. Within 30 days of the effective date of this Order, Koppers shall develop and submit to the Department a ground water quality assessment plan which, at minimum, will determine (a) the rate and extent of migration of hazardous waste or hazardous waste constituents in the ground water, and (b) the concentration of the hazardous waste or hazardous constituents in the ground water.
81. The ground water quality assessment plan must specify:
- A. The number, locations and depth of wells.
 - B. Sampling and analytical methods for those hazardous wastes or hazardous waste constituents in the facility.
 - C. Evaluation procedures, including any use of previously-gathered ground water quality information.
82. Koppers shall submit the ground water quality assessment plan to the Department for its review and approval prior to implementing the plan. In the event of any disapproval, the Department shall, in writing, specify the reasons for disapproval and any recommended modifications. Koppers shall modify the work plan to address the Department's comments within 15 days of the date the Department's comments are received by Koppers.
83. Within 15 days of receiving the Department's final approval, Koppers shall implement the ground water quality assessment plan at its facility in Denver. Koppers shall complete the work plan no later than 90 days after commencement.
84. Koppers may decide to implement an assessment program that follows a phased approach, the nature of each phase being determined by the results of the preceeding phase. The work plan of each additional phase shall be submitted to the Department for review and approval prior to being implemented and will become an attachment to this Compliance Order.

85. To the extent that work required by the ground water quality assessment plan must be done on property not owned or controlled by Koppers, Koppers will use its best efforts to obtain site access agreements from the present owners of such property. In the event that agreements for site access are not obtained when necessary, Koppers shall notify the Department regarding its best efforts and its failure to obtain such agreements.
86. Within 30 days of completion of the ground water quality assessment program, Koppers shall submit a report to the Department which integrates and evaluates all information collected pursuant to the assessment plan.

Third Violation

87. Within 30 days of the effective date of this Compliance Order, Koppers shall revise and submit to the Department their financial test submission of March 27, 1987 to include a post-closure cost estimate in current dollars, as required by 6 CCR 1007-3, Section 266.13.

Fourth Violation

88. Koppers shall immediately cease shipment of the creosote and sand/gravel/wood chips waste as non-hazardous waste. The hazardous waste mixture shall be shipped only to a treatment, storage or disposal facility which has interim status or a Part B permit issued by the U.S. EPA or the State hazardous waste management program.

Fifth Violation

89. Within 20 days of the effective date of this Compliance Order, Koppers shall properly label all existing containers of the creosote and sand/gravel/wood chips waste as hazardous waste.
90. Upon the effective date of this Compliance Order, all newly generated containers of the creosote and sand/gravel/wood chip waste shall be labeled as hazardous waste immediately upon generation.
91. Within 20 days of the effective date of this Compliance Order, Koppers shall come into compliance with all applicable generator (6 CCR 1007-3, Part 262) and interim status (6 CCR 1007-3, Part 265) regulations with respect to the creosote waste.

Sixth Violation

92. Within 20 days of receipt of this Compliance Order, Koppers shall submit, for Department approval, an amended Part A application which includes storage of hazardous waste in waste piles.

Seventh and Eighth Violations

93. Within 30 days of the effective date of this Compliance Order, Koppers shall install a security system and post warning signs at the impoundments and waste piles in compliance with 6 CCR 1007-3, Section 265.14(a) and (c).

Ninth Violation

94. Within 45 days of the effective date of this Compliance Order, Koppers shall modify its personnel training program and records to comply with 6 CCR 1007-3, Section 265.16. At a minimum, the plan and records shall be modified to include a description of the classroom and on-the-job training of Koppers employees on the management of hazardous wastes at the facility, the qualifications of the instructors, and the documents for recording such training.
95. Within 30 days of the effective date of this Compliance Order, Koppers shall notify the Department in writing the reason or reasons for the lack of hazardous waste personnel training records for all years since 1980.

Tenth Violation

96. Within 45 days of the effective date of this Compliance Order, Koppers shall modify its contingency plan to comply with 6 CCR 1007-3, Part 265, Subpart D. At a minimum, the contingency plan shall be modified to include an accurate list of the facility emergency response equipment, its location and its capabilities. In addition, the contingency plan shall include an evacuation plan.

Eleventh Violation

97. Within 45 days of the effective date of this Compliance Order, Koppers shall modify its inspection program and records to comply with 6 CCR 1007-3, Sections 265.15, 265.174, and 265.226. At a minimum, the inspection program shall be modified to include inspection and documentation of inspections of all monitoring and safety equipment, areas subject to spills, and all interim status units according to schedules contained within the regulations.

Twelfth Violation

98. Within 45 days of the effective date of this Compliance Order, Koppers shall modify its operating record to comply with 6 CCR 1007-3, Section 265.73. At a minimum, the operating record shall be modified to include a description of the amount and location of hazardous waste for the waste piles.

NOTICE OF LIABILITY FOR CIVIL PENALTIES AND INJUNCTIVE RELIEF

Section 25-15-309, C.R.S. (1982) states that any person who violates Section 25-15-308, C.R.S. (1982 and 1985 Supp.), which includes violations of the Hazardous Waste Act, Sections 25-15-101 to 313, C.R.S. (1982 and 1987 Supp.) and the regulations implementing the Act, 6 CCR 1007-3, and any Compliance Order of the Department of Health, which is not subject to a stay pending judicial review, shall be subject to a civil penalty of not more than \$25,000 per violation for each day during which the violation occurs. The Colorado Department of Health may request that the Attorney General bring suit for injunctive relief or civil penalties or both for failure to comply with Section 25-15-308, and this Order. The Compliance Order deadlines will remain as stated herein unless modified subsequent to the informal conference.

PRICE OF EFFECTIVE DATE OF ORDER

Unless you request an informal conference within 10 calendar days of receipt of this Order pursuant to the following paragraph, this Order shall become effective 10 calendar days after receipt. Paragraphs 83 and 93 of this Order are effective upon receipt. Should you request an informal conference, the above compliance deadlines are suspended pending further notice to be issued after such a conference.

OPPORTUNITY TO REQUEST
INFORMAL CONFERENCE

If you wish to contest any findings made herein or explain any circumstances that tend to mitigate the violation(s), you may request an informal conference within 10 calendar days of receipt of this Compliance Order. The Division will schedule a conference to be held within 20 days of your receipt hereof. Although this conference is an informal proceeding, you may, if you so desire, have legal counsel attend with you. Should you wish to schedule an informal conference, or should you have any questions regarding this Compliance Order, contact:

Walter Avramenko or
Nancy Jackson
Hazardous Waste Monitoring and Enforcement Unit
Hazardous Materials and Waste Management Division
Colorado Department of Health
4210 East 11th Avenue
Denver, Colorado 80220
(303) 331-4830

Date:

4/20/88

By:

Frederick R. Dowsett

Frederick R. Dowsett, Unit Leader
Hazardous Waste Monitoring and
Enforcement Unit
Hazardous Materials and Waste
Management Division

Date:

4/20/88

By:

Gerry W. Goad
Gerry W. Goad
Assistant Attorney General
Natural Resources Section
Colorado Department of Law

STATE OF COLORADO

COLORADO DEPARTMENT OF HEALTH

4210 East 11th Avenue
Denver, Colorado 80220
Phone (303) 320-8333



Kov Komer
Governor

Thomas M. Vernon,
Executive Director

September 20, 1988

CERTIFIED MAIL # P297703548
Return Receipt Requested

Jill M. Blundon
Attorney
Koppers Company, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219

RE: Hazardous Materials and Waste
Management Division
Compliance Order 88-4-21-1

Record of Informal Conference
- and -
Service of Final Order

Dear Ms. Blundon:

On behalf of the Hazardous Materials and Waste Management Division of the Colorado Department of Health, Hazardous Materials and Waste Management Division ("the Division"), I would like to thank you for taking time to meet informally with the Division on May 24, 1988 to discuss the violations of the Colorado Hazardous Waste Act and implementing regulations described in Compliance Order No. 88-2-21-1. This letter summarizes our informal conference and articulates the Division's final position with regard to this case.

Compliance Order No. 88-4-21-1 contains the Division's findings that Koppers Company, Inc. violated the Colorado Hazardous Waste Act and implementing regulations by failing to complete closure activities in accordance with the approved schedule, failure to submit a ground water quality assessment plan, failure to submit a written estimate of post-closure maintenance and monitoring costs, disposal of hazardous waste at an unauthorized facility, failure to properly label containers, failure to maintain adequate security and warning signs, failure to maintain adequate personnel training records, failure to maintain an adequate contingency plan, failure to conduct an adequate inspection program, and failure to maintain adequate operating records.

My staff and I have carefully reviewed the case, including the evidence and arguments which you offered at the conference. A brief summary of the major points and arguments are summarized as follows:

1. You did not dispute that there had been deviation from the schedule contained in the approved closure plan for the hazardous waste surface impoundments; you argued that the deviations were caused primarily by adverse weather, and that such deviations are routine. It is the Division's position that schedules within approved closure plans become integral to the closure and that deviations from an approved closure plan require prior approval by the Division. The Division has reviewed the approved schedule and Koppers' closure activities, and has concluded that closure was not completed in accordance with the approved schedule.
2. You argued that the ground water quality assessment plan was unnecessary because of the pending consent order with the U.S. Environmental Protection Agency which will include a site wide ground water evaluation. The Department feels that the ground water assessment plan required under the Colorado Hazardous Waste Regulations is separate from Federal Corrective Action authorities. Because Koppers has determined statistically significant changes in ground water quality at the facility, the Department believes it is imperative to begin the ground water assessment for the RCRA unit. Additionally, while it is possible to conduct the ground water assessment for the surface impoundments in conjunction with the site-wide evaluation, the EPA consent order has been pending for well over one year and there is no guarantee that it will be finalized and signed in the near future. The Division does not believe it is appropriate to wait on a ground water assessment for the surface impoundments.
3. You also argued that Koppers had submitted a written estimate of post-closure maintenance and monitoring costs. This is correct. However, according to 6 CCR 1007-3, Section 266.13(b) and (c), the owner or operator of the facility must adjust the post-closure cost estimate of the financial instrument(s) whenever a change in the post-closure plan increases the cost of post-closure care. The modified financial test to demonstrate financial responsibility for post-closure care assistance and liability coverage was not submitted until April 25, 1988 even though Koppers decided to close the impoundments as a hazardous waste landfill in August, 1987.

4. Considerable discussion was made regarding the creosote and sand/gravel/wood chip waste removed from the treatment tanks. You argued that because the waste is a process waste it is excluded from regulation as a hazardous waste. The Division strongly believes that the waste is a hazardous waste as defined under the Colorado Hazardous Waste Regulations. First, the Colorado regulations do not include the Federal (40 CFR) comment which discusses process wastes. Secondly, the waste created is essentially excess creosote which does not adhere to the wood being treated. A close analogy is hazardous waste created in pollution control devices. Finally, under 6 CCR 1007-3, Section 261.31, creosote is a listed hazardous waste (U051); under 6 CCR 1007-3, Section 261.3 when a hazardous waste is mixed with solid waste, the entire mixture becomes a hazardous waste. Therefore, it is the Division's position that the waste creosote and sand/gravel/wood chips mixture is a fully regulated hazardous waste and must be managed in accordance with the Colorado Hazardous Waste Act and implementing regulations.
5. You argued that creation of the waste piles outside of the closing surface impoundments was allowable under the approved closure plan for these units. The Division has reviewed the approved closure plan. The plan states that Koppers was to create the waste piles only within the closing surface impoundments. The Division believes that the waste piles constitute unauthorized storage of hazardous waste. Because creation of temporary storage units is routine during closure, the Division believes the Compliance Order should be amended to allow Koppers to either request an amendment to its Part A application to include the waste piles, or request to amend the closure plan for the surface impoundments to allow temporary storage of hazardous waste in waste piles in the area near the surface impoundments. In the event Koppers elects to amend the closure plan, the plan must also be amended to include removal of the waste piles and decontamination of the area at final closure.
6. Finally, you did not generally dispute the Division's assertions regarding the inadequacy of Koppers' personnel training records, contingency plan, inspection program and operating records. You presented some additional records which were not available during the inspection at the Koppers facility, and discussed various steps Koppers would be taking to upgrade those records.

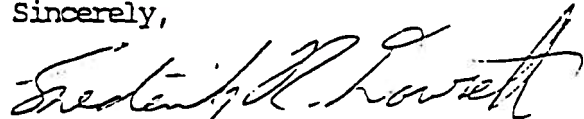
Based upon the above, the Division has concluded that the Compliance Order should stand as originally issued with the following modification to paragraph 92:

92. Within 20 days of the effective date of this Compliance Order, Koppers shall submit, for Department approval, an amended Part A application or an amended surface impoundment closure plan which includes storage of hazardous waste in waste piles. If Koppers elects to submit a modified closure plan, the plan must include provisions for removal of the waste piles and remediation of the temporary storage site.

The Division has also determined that the final Order, as modified above, shall be effective five (5) calendar days after your receipt of this letter.

Should you desire to schedule a meeting or wish to discuss the technical aspects of this matter, please call Walter Avramenko or Nancy Jackson at the Division (telephone 303/331-4830). If you wish to discuss legal aspects of this matter, please contact David B. Kopel at the Colorado Attorney General's Office (telephone 303/866-5058).

Sincerely,

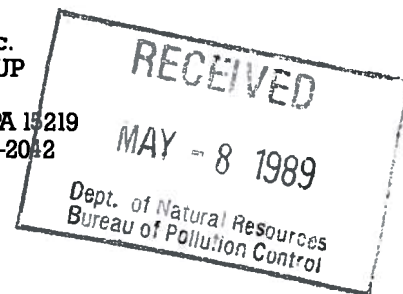


Frederick R. Dowsett, Unit Leader
Hazardous Waste Monitoring and
Enforcement Unit
Hazardous Materials and Waste
Management Division

cc:

Judy Wang, Environmental Protection Agency
Charles Brinson, Environmental Protection Agency
David B. Kopel, Colorado Attorney General's Office
Bernard Maloney, Plant Manager, Koppers Company, Inc.
455 West 56th Avenue, Denver, 80216
Douglas J. MacDougal, Denver Department of Health and Hospitals

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



May 5, 1989

FEDERAL EXPRESS

Mr. Kaleel Rahaim
Mississippi Department of Natural
Resources
Bureau of Pollution Control
Hazardous Waste Division
2380 Highway 80 West
Jackson, MS 39209

Re: Oil/Water Separator
Process Flow Diagram

Dear Mr. Rahaim:

This transmittal responds to your request for general process information relative to oil/water separator(s) used for the recycling and regeneration of preservative and for the management of accumulated rainwater at wood treating facilities. I have attached a figure depicting a typical process flow diagram for your attention.

As discussed in our meeting with MSDNR on April 18, 1989, it is our position that oil/water separator sludge is not the listed hazardous waste K001. The K001 background listing document is, at best, ambiguous with respect to the classification of oil/water separator sludge. In support of this, we referred you to the new proposed listings document. The EPA proposes to list as hazardous, wastes generated from wood preserving processes that use either chlorophenolic, creosote, and/or inorganic preservatives (FR Vol. 53, No. 251 December 30, 1988, pp. 53282-53330). The scope of the proposed listings consists of two wastes which would apply to the operation of oil/water separators. These wastes include:

- o Process Residuals - Includes "...residuals from recycling and regeneration of preservative; leaks from process equipment; and residuals from maintenance and cleaning of process equipment. Process residuals are not already covered under the scope of the K001 listing." (FR Vol. 53, No. 251, pp. 53289).
- o Wastewaters - Includes "...preservative formulation recovery and regeneration wastewater...", and "...water, including rainwater, that accumulates in

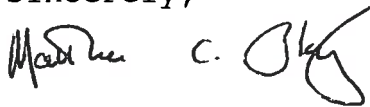
Mr. Kaleel Rahaim
May 5, 1989
2.

door and retort sumps and rainwater falling on or in the immediate vicinity of the treating cylinder and work tank area is also included in the proposed listing." Later EPA adds, "Wastewaters are not already covered under the scope of the K001 listing." (FR Vol 53., No. 251, pp. 53288-53289)

Clearly EPA intends to regulate these wastes which includes oil/water separator sludge under these proposed listings in the future. Certainly, this confirms the existence of ambiguity with respect to the waste classification and at the very best makes any enforcement with respect to such a classification inappropriate.

I trust that this information satisfies your requirement at this time. We look forward to discussing these matters with you further.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/cr
Enclosure

cc: B. Nolan
R. Hamilton
D. Kerschner
J. Clayton
J. Batchelder
R. Anderson

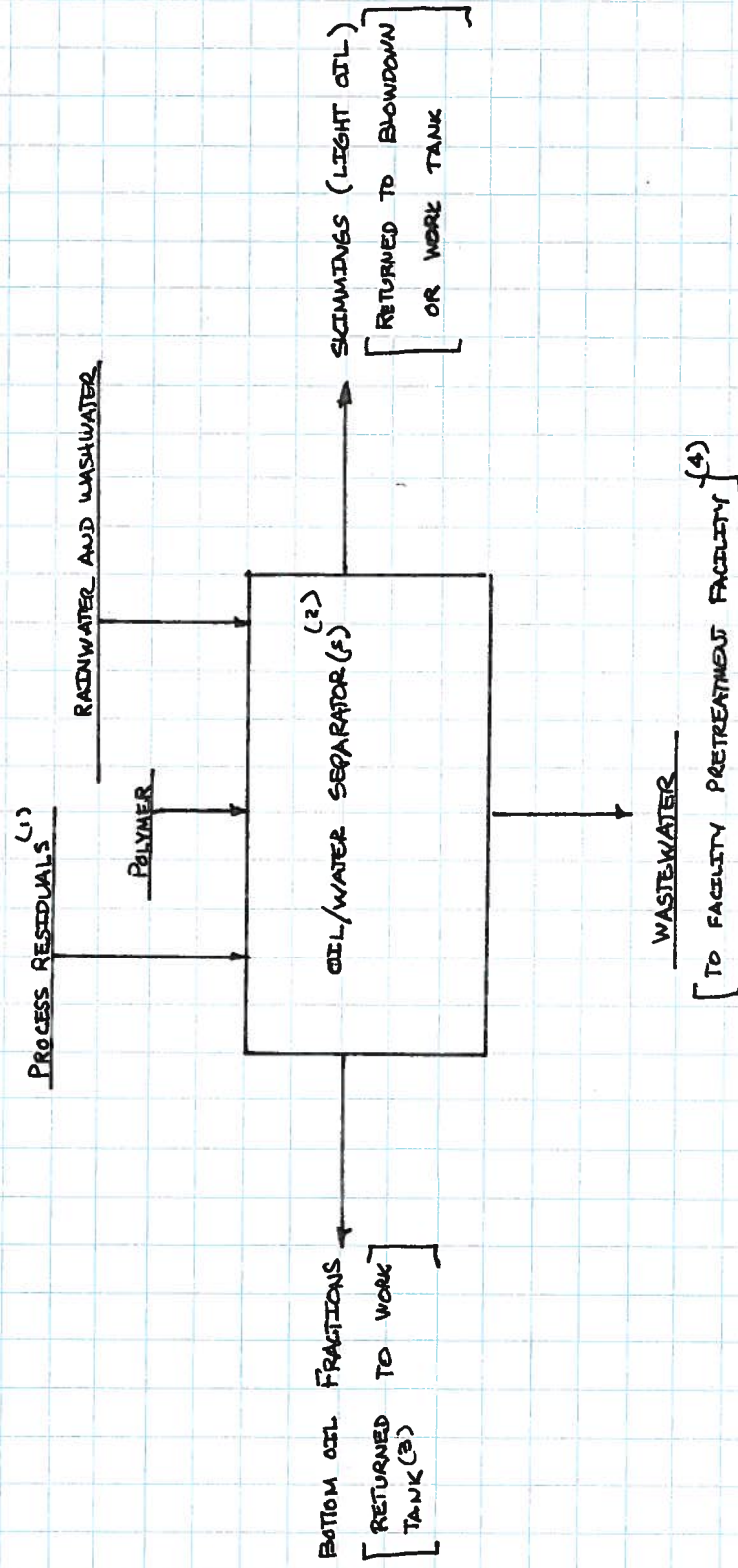


FIGURE 1 - TYPICAL PROCESS FLOW DIAGRAM
OIL/WATER SEPARATOR(S) OPERATION

NOTES:

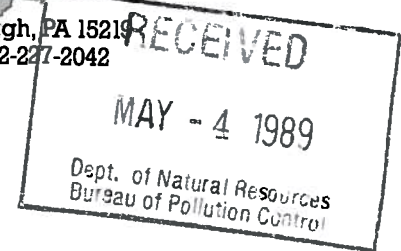
- (1) PROCESS RESIDUALS MAY INCLUDE EXCESS PRESERVATIVE AND CONDENSATE FROM TREATING CYLINDERS; SAWDUST, WOOD CHIPS, SAND, AND STONES.
- (2) SOME FACILITIES UTILIZE A PRIMARY AND SECONDARY OIL/WATER SEPARATOR.
- (3) BOTTOM OIL FRACTIONS MAY UNDERGO ADDITIONAL DEHYDRATION TO MEET WATER CONTENT PRESERVATIVE TREATMENT STANDARDS.
- (4) WASTEWATERS WERE FORMERLY DISCHARGED TO REGULATED SURFACE IMPOUNDMENTS.

Prepared by: Matt Plante

Beaver Materials and Service, Inc.

May 5, 1989

Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



May 3, 1989

FEDERAL EXPRESS

DIVISION OF SOLID WASTE

REVIEWED BY KC

DATE 5/4/89

COMMENTS Copy sent to EPN

ig. Beazer

Mr. Kaleel Rahaim
Mississippi Department of Natural
Resources
Bureau of Pollution Control
Hazardous Waste Division
2380 Highway 80 West
Jackson, MS 39204

Re: RCRA Issues
Koppers Industries, Inc. Facility
Grenada, Mississippi
MSD 007027543

Dear Mr. Rahaim:

The following information, together with the enclosed materials, constitutes our response to several outstanding RCRA issues for the Koppers Industries, Inc. facility at Tie Plant, Mississippi. These issues include:

- o Formal notification that the surface impoundment may be affecting groundwater quality.
- o Formal notification that the boiler ash landfarm may be affecting groundwater quality.
- o Compilation of all waste manifests for drums received from off-site facilities for use as fuel additive in the boiler at the Grenada facility from January 1987 to date.
- o Chronological history related to the disposition of the EPA Hazardous Waste Code U051 drums.
- o Requested process information specific to the operation of oil/water separator units of all off-site facilities sending process wastes to Grenada for processing in the facility boiler.

The following paragraphs discuss each issue in greater detail.

Surface Impoundment Groundwater Monitoring Program - In accordance with MHWMR 294.98(h)(i), Beazer Materials and Services, Inc. (BMS) has determined that the surface impoundment may be affecting groundwater quality. This notification relates specifically to the first and second quarters of 1988. Subsequent sampling events confirmed the basis of this

Mr. Kaleel Rahaim
May 3, 1989
2.

determination. The surface impoundment received a RCRA Part B operating permit on June 28, 1988 which contained provisions to conduct a detection monitoring program. The statistically significant increases and a groundwater quality summary for other monitored constituents for 1988 were provided to MSDNR in the annual report submitted March 1, 1989.

Pursuant to the conditions of the operating permit and in accordance with MHWMR 264.98, BMS will perform the following activities at the specified schedule:

<u>Activity</u>	<u>Regulatory Citation</u>	<u>Date</u>
1. Agency Notification	MHWMR 264.98(h)(1)	Upon Agency Receipt
2. Appendix IX Sampling	MHWMR 264.96(h)(2)	+30 days
3. Application for Permit Modification (Compliance Monitoring)	MHWMR 264.96(h)(4)	+90 days
4. Engineering Feasibility Study for Necessary Corrective Action	MHWMR 264.98(h)(5)	+180 days

The components of the compliance monitoring program will meet the requirements of MHWMR 264.99; any warranted corrective action program will meet the regulatory requirements of MHWMR 264.100.

The surface impoundment is currently undergoing closure, with final closure activities scheduled for initiation upon approval of MSDNR of minor modifications to the closure plan.

Boiler Ash Landfarm Groundwater Monitoring Program - In accordance with MHWMR 265.93(d)(1), BMS has determined that the boiler ash landfarm may be affecting groundwater quality. The landfarm is currently operating under a groundwater monitoring program under interim status. A closure plan and post-closure application were previously submitted to MSDNR and are currently under review.

BMS will submit a Groundwater Quality Assessment Plan (GWQAP) in response to this notification, within 15 days as required under MHWMR 265.93(d)(2). The GWQAP will expand upon the groundwater quality assessment outline previously presented to MSDNR and included in this submittal as Attachment A. BMS, however, would like to reserve the right to later incorporate the groundwater quality assessment program in the RFI/CMS process.

Mr. Kaleel Rahaim
May 3, 1989
3.

Boiler Feed Waste Manifests - As requested in your letter dated April 21, 1989, BMS has provided copies of all manifests for drums received at the Grenada facility from off-site facilities since January 1987. These are included as Attachment B. In addition, the following is a listing of typical wastes generated on-site during that same period and used as fuel additive:

- o process cylinder residuals
- o work tank sludges
- o door pit sludges

U051 Drums - Koppers Company, Inc. submitted a check on November 21, 1988 in the amount of \$6,000 in settlement per the Agreed Order No. 1478-88, which included the storage of U051 drums for longer than 90 days. Attachment C provides a chronological summary of actions taken since that date prepared by Rollins Chempak, Inc. (Rollins). Rollins held a national contract with Koppers Company, Inc. during this time frame and was charged with responsibility for disposing of this material. Also, on April 26, 1989, I gave you a copy of our supplemental response to EPA IV's request for additional information regarding our original Soft Hammer Certification/Demonstration Information letter which highlights some of our efforts to locate a proper TSDF for identical wastes. This initial letter was received by Region IV on November 4, 1988.

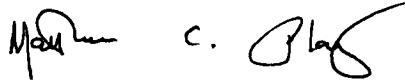
Oil/Water Separator Process Information - I have attempted to track down useful information relative to the operation of oil/water separators at the wood treating facilities which sent nonhazardous process waste to Grenada, Mississippi. My efforts have not been entirely successful due to the fact that many of these facilities are extremely old (eg. Carbondale ca. 1902) and working engineering prints are not available. BMS requests that additional time be provided for us to better respond to your request. I will keep you abreast of the status of this effort.

We trust that this information satisfies your requirements at this time. As a peripheral issue, I will let you know when the next monitoring sampling event is scheduled so that MSDNR can prepare to conduct a Comprehensive Monitoring Evaluation.

Mr. Kaleel Rahaim
May 3, 1989
4.

If you should have any questions or comments, please do not
hesitate to contact me.

Sincerely,



Matthew C. Plautz, P.E.
Program Manager-Environmental Services

MCP/CR
Attachments

cc: J. H. Scarbrough (US EPA IV)
W. S. Spengler (MS DNR)
J. R. Batchelder (KII) [w/o attachments]
R. G. Hamilton (BMS) [w/o attachments]
B. S. Nolan (BMS) [w/o attachments]
R. J. Anderson (Keystone)
J. D. Clayton (KII)

RD OF TELEPHONE CONVERSATION

Name of firm or party

Beaver Materials & Services (Koppus)

Address

Pittsburg (Re Grenada, Mo)

Contact

Matt Plaut

Phone

(412) 227-2952

- 1) Re: Manifests - requested for materials shipped to Grenada from other states - Matt indicated that he has most of those together and should mail by Wed.
- 2) Re: Schematics of oil/water separator in process scheme - Matt will have those mailed by 5/3/85 also
- 3). Notification of GW Contamination will arrive by 5/3 according to Matt
- 4) Matt asked for a copy of Koppus Permit - I will mail to him today.

Signature

Kalut Kalani

Date

5/1/85

ATTACHMENT A

COMPONENTS OF A GROUNDWATER QUALITY ASSESSMENT

- 1.0 Installation of Additional Monitoring Wells
 - a. Additional upgradient well(s) to confirm upgradient groundwater quality
 - b. Additional downgradient wells to define lateral extent of possible plume
 - c. Additional downgradient well(s) screened in next hydrogeologic interval
- 2.0 Chemical Characterization of Waste
- 3.0 Chemical Characterization of Groundwater
 - a. Groundwater sampling -- Round 1
 - b. Groundwater sampling -- Round 2
- 4.0 Evaluation of Data
- 5.0 Installation of Additional Wells (If Necessary)
- 6.0 Preparation of Groundwater Quality Assessment Report
- 7.0 Continue Detection or Assessment Monitoring as Appropriate

ATTACHMENT B

ATTACHMENT C

To: Jack Stephenson
 From: Jim Ulsh
 Date: 5/1/89
 Re: Drums from Grenada, MS.

Jack,

The following is the chronological sequence of steps taken in the removal of the U051 drums from the Grenada, MS site. Please note that Jackie Clayton returned all required samples and paperwork very quickly and the delays involved in approving the drums were from Rollins end.

Week of 12/19/88 You contacted Rick Gance concerning the removal and incineration of drums. Partially completed Waste Data Sheets (plant permit requirement) were sent to Grenada.

Week of 12/26/88 Completed Waste Data Sheet returned and forwarded to the RES(LA) plant.

Week of 1/9/89 Samples requested by RES(LA). Grenada notified and samples sent to RES(LA).


Week of 1/23/89 New Waste Data Sheet requirements at plant call for new forms to be submitted. Grenada notified and updated Waste Data Sheet is sent to RES(LA).

Week of 2/20/89 RES(LA) approves the drums for repack and incineration, request a delivery date of 3/16/89.

Week of 2/27/89 Manifest prepared and sent to Grenada. Drums shipped 3/2/89.

Jack, if you have any other questions please feel free to call me at (302) 651-7900.

Thanks,


 James B. Ulsh
 Rollins CHEMPAK Inc.

RECEIVED

MAY 2 1989

ENVIRONMENTAL
 RESOURCES

**SHIPPING DOCUMENT
For Tracking Purposes**

Shipper's Name & Mailing Address

KOPPER CO INC.
P.O. Box 8057
KANSAS CITY MO.

Phone: (816) 861 5550

MO 00 214651

Transporter Company Name

DART TRUCKING CO INC.
CANFIELD OHIO

Phone: (1) 1-800-238-8357

MO - H - 1459
OH 000 - 9865825

Designated Facility Name and Site Address

KOPPERS IND INC.
TIE PLANT ROAD,
GRANADA MS 38960

Phone: (601) 226-4584

MS 000 7027543

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
a. NON HAZARDOUS PROCESS WASTE CONTAINING USED CREOSOTE	86	O.M.	41,000 451	L6-P.
b.				
c.				

Addition Descriptions for Materials Listed Above

RC) HAZARDOUS SUBSTANCE LIQUID OR SOLID.
NOS ORM-E
NA 9188 CONTAINS CREOSOTE

Special Handling Instructions

WHEN HANDLING WEAR PROTECTIVE EQUIPMENT SUCH AS IMPERVIOUS GLOVES + EYE PROTECTING.

NON HAZARDOUS WASTE FOR TRACKING PURPOSES ONLY

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name	Signature	Month	Day	Year
JAMES M. COLE	James M. Cole	10	4	21

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name	Signature	Month	Day	Year
WILLIAM A. HOCKARY	William A. Hockary	10	4	21

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name	Signature	Month	Day	Year
GARY E. MCCLELLAND	Gary E. McClelland	10	4	22

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

KOPPER CO INC.
PO BOX 8057
KANSAS CITY MO
Phone: (816) 861 5880

MOD 00714651

Transporter Company Name

DART TRUCKING CO INC.
CANFIELD O.

MO - H - 1459
OHD00 9865825

Phone: () 1-800-238-8357

Designated Facility Name and Site Address

KOPPER IND INC
TIE PLANT ROAD
GRENADA MS. 38960
Phone: (601) 226-4584

MSD 007027543

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

NO.

TYPE

a. NON HAZARDOUS PROCESS WASTE
CONTAINING USED CREOSOTE

87

DM

41,660

Lb-P.

b.

c.

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS SUBSTANCE LIQUID OR SOLID
NOS ORM - E
N.A. 9188 CONTAINS CREOSOTE

Special Handling Instructions

WHEN HANDLING WEAR PROTECTIVE EQUIPMENT SUCH AS IMPERVIOUS.
GLOVES & EYE PROTECTION
NON HAZARDOUS WASTE - FOR TRACKING PURPOSES ONLY

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

JAMES M. COLE

James M. Cole

10/4/11/8/8/91

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

WILLIAM A. HUCKABY

William A. Huckaby

10/4/11/8/8/91

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

GARY E. MCCLELLAND

Gary E. McClelland

10/4/11/9/8/91

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Industries, Inc.
P.O. Box 15490
North Little Rock, AR 72231

Phone: (501) 945-4581

Transporter Company Name

Dart Trucking Co. Inc.

Phone: (1-800-541-9158

Designated Facility Name and Site Address

Koppers Industries, Inc.
Box 160 Tie Plant Road
Tie Plant, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

NO.

TYPE

a. Nonhazardous Process Waste
(used creosote)

70

DM

43 380

P

b.

c.

Addition Descriptions for Materials Listed Above

RQ hazardous substance solid N.O.S. ORM-E NA 9188
(contains creosote)

Special Handling Instructions

When handling, wear protective equipment such as
impervious gloves and eye protection. Alternate TSD facility:
Koppers Industries, Inc. 2201 Edmonds St. North Little Rock, AR 72117.
Hazardous waste for Tracking purpose only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

RAY HARVEY

Signature

Ray Harvey

Month Day Year

04/13/89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

GARY WINTERS

Signature

Gary Winters

Month Day Year

04/13/89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

GARY E. MCCLELLAND

Signature

Gary E. McClelland

Month Day Year

04/14/89

**UNIFORM HAZARDOUS
WASTE MANIFEST**

Generator's US EPA ID No.

Manifest
Document No. **1**
Page 1
of 1

Information in the shaded areas
is not required by Federal law.

3. Generator's Name and Mailing Address

**Koppers Co Inc
Po Box 351 Oroville, California 95965**

A. State Manifest Document Number

87057630

4. Generator's Phone **(916) 533-6535**

B. State Generator's ID

5. Transporter 1 Company Name

Dart Trucking Co Inc

6. US EPA ID Number

01410109181658218

C. State Transporter's ID

2433

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone **820-426-0895**

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

**Koppers Industries Inc
Highway 51 South
Meranda, Mississippi 38960**

10. US EPA ID Number

01410107101275143

G. State Facility's ID

H. Facility's Phone

601-226-4584

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. **RQ Hazardous Waste Nos Liquid ORMH
NA 9189**

12. Containers

No.

Type

13. Total
Quantity

14. Unl
Vol

1. Waste No.

State

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

**Above material contains Pentachlorophenol
oil components, metals wood + dirt
Extremely Hazardous Waste Permit 1-2488**

K. Handling Codes for Wastes Listed Above

a.

b.

c.

d.

15. Special Handling Instructions and Additional Information

**Although the material described above is classified as a
hazardous waste in California, it is not hazardous pursuant to Federal or Mississippi
Law + regulations. Therefore the destination to which the material is being shipped
is not required to be a permitted hazardous waste Treatment disposal or storage facility**

16. The material will be burned in an industrial boiler for energy recovery
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping
name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable
international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have
determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to
me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good
faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford

Printed/Typed Name

Michael J Gakara

Signature

Michael J Gakara

Month Day Year

10/4/1989

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Gary Winters

Signature

Gary Winters

Month Day Year

04/10/1989

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

GARY MCCLELLAND

Signature

Gary McClelland

Month Day Year

10/4/12/18/9

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

KOPPERS Co INC.
P.O. Box 8057
KANSAS CITY, MO. 64129

MOB 00714651

Phone: (816)

Transporter Company Name

DART TRUCKING Co INC.

MO-H-1459
OH0 009865825

Phone: ()

1-800-238-8357

Designated Facility Name and Site Address

KOPPERS IND INC.
TIE PLANT ROAD
GRENADE, MS. 38960

Phone: (601)

226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

NO.

TYPE

TOTAL
QUANTITY

UNIT
WT/VOL

a. NON-HAZARDOUS PROCESS WASTE
CONTAINING USED CREOSOTE

74

DM

34,830

LB-P.

b.

c.

Addition Descriptions for Materials Listed Above

R.O. HAZARDOUS SUBSTANCE LIQUID OR SOLID.
NOS ORM-E
NA 9188 CONTAINS CREOSOTE

Special Handling Instructions

WHEN HANDLING WEAR PROTECTIVE EQUIPMENT SUCH AS IMPERVIOUS
GLOVES + EYE PROTECTION

NON-HAZARDOUS WASTE - FOR TRACKING PURPOSES ONLY

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month

Day

Year

JAMES M. COLE

James M Cole

04 04 89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month

Day

Year

JAMES L. ALLEN

James L Allen

04 04 89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month

Day

Year

GARY E. MCCLELLAND

Gary McClelland

04 05 89

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No.

Manifest Document No.

Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

Kopper Co Inc
PO Box 351 Oroville, CA 95965

4. Generator's Phone (916) 533-6535

5. Transporter 1 Company Name

Dart Trucking Co Inc

6. US EPA ID Number

10 H 1001091865825

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Koppers Industries
Highway 51 South
Meranda, Mississippi 38960

10. US EPA ID Number

10 H 1001071027543

A. State Manifest Document Number

87057629

B. State Generator's ID

4 A H 0360051177

C. State Transporter's ID

1944

D. Transporter's Phone

800 426 0895

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone

601-226-4584

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. RQ Hazardous Waste NOS Liquid ORME
NA 9189

12. Containers

No. Type

0816 DIM 31681010 P

13. Total Quantity

Unit

Wt/Vol

State

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

Above material contains Pentachlorophenol,
oil components, metals, wood + dirt.

Extremely Hazardous Waste Permit # 1-2488

K. Handling Codes for Wastes Listed Above

a. b.

c. d.

15. Special Handling Instructions and Additional Information

Although the material described above is classified as a hazardous waste in California it is not hazardous pursuant to Federal or Mississippi laws + regulations. Therefore the destination to which the material is being shipped is not required to be a permitted hazardous waste facility. The material will be used as a fuel at the disposal site.

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, hazard class, packing, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Michael J Calcaterra

Signature

Michael J Calcaterra

Month Day Year

10/31/1989

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

EDWARD A. RIPPON

Signature

Edward A. Rippon

Month Day Year

10/31/1989

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

GARY E. MCCLELLAND

Signature

Gary E. McClelland

Month Day Year

10/31/1989

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

KOPPERS CO INC
PO BOX 8057
KANSA CITY MO 64129

MOD 00714651

Phone: (816) 861-5880

Transporter Company Name

DART TRUCKING CO INC

MO-H-1459
OND 009865825

Phone: () 1-800-238-8357

Designated Facility Name and Site Address

KOPPERS IND INC
TIE PLANT ROAD
GRENADA, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

NO.

TYPE

a. NON-HAZARDOUS PROCESS WASTE
CONTAINING USED CREOSOTE

87

DM

42,500

LB-P

(EST)

b.

c.

Addition Descriptions for Materials Listed Above

R.O. HAZARDOUS SUBSTANCE Liquid or solid
NOS ORM-E
NA 9188 CONTAINS CREOSOTE

Special Handling Instructions

WHEN HANDLING WEAR PROTECTIVE EQUIPMENT SUCH AS IMPERVIOUS
GLOVES & EYE PROTECTION

NON HAZARDOUS WASTE - FOR TRACKING PURPOSES ONLY

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

JAMES M. COLE

James M Cole

031489

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

Bob Coffey

Bob Coffey

031489

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

MONROE HARPER

Monroe Harper

031589

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Industry Inc.
P.O. Box 15490
North Little Rock AR 72231

Phone: (501) 945-4581

Transporter Company Name

DART Trucking Co. Inc.

Phone: () 1-800-541-9158

Designated Facility Name and Site Address

Koppers Industry Inc.
Box 160, Tie Plant Road.
Tie Plant, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
a. Nonhazardous Process waste (used creosote)	69	DM	4460 (Gst)	P
b.				
c.				

Addition Descriptions for Materials Listed Above

RQ Hazardous Substance Solid N.O.S. ORM-E NA 9188
(CONTAINS CREOSOTE)

Special Handling Instructions

When handling wear protective equipment such as impervious gloves and eye protection. Alternate TSD Facility - Koppers Ind. Inc. 2201 Edmonds ST. North Little Rock AR 72117. Non-Hazardous waste For Tracking purposes only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

Ken Martin

Ken Martin

03 | 13 | 89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

Timothy D. Klawns

Timothy D. Klawns

03 | 12 | 89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

Monroe Harper

Monroe Harper

03 | 14 | 89

UNIFORM HAZARDOUS
WASTE MANIFEST

Generator's US EPA ID No.

Manifest
Document No.Page 1
of 1Information in the shaded areas
is not required by Federal law.

3. Generator's Name and Mailing Address

Koppers Co Inc
PO Box 361 Groville, California 95965

A. State Manifest Document Number

87057628

B. State Generator's ID

4. Generator's Phone (916) 533-6535

5. Transporter 1 Company Name

Dart Trucking Co Inc

6. US EPA ID Number

0410107865825

C. State Transporter's ID

960209

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone

922-5805

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

Koppers Industries
Highway 51 South

10. US EPA ID Number

Meranda, Mississippi 38760

MD51007027543

G. State Facility's ID

H. Facility's Phone

601-226-4584

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. RD Hazardous Waste NOS Solid ORME
NA9189

12. Containers

No. Type

186 DM 410 1100 P

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

State

EPA/Other

State

EPA/Other

State

EPA/Other

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

Above material contains Tetrahydrofuran, oil compounds
metals, wood + dirt.

Extremely Hazardous Waste Permit #1-2488

K. Handling Codes for Wastes Listed Above

a. b.

c. d.

15. Special Handling Instructions and Additional Information

Although the material described above is classified
as a hazardous waste in California it is not a hazardous waste pursuant to
Federal or Mexico CIPRI laws + regulations. Therefore the destination to which
the material is being shipped Meranda, Miss. is not required to be a permitted
hazardous waste treatment, storage, or disposal facility.GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping
name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable
international and national government regulations.If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have
determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to
me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good
faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Michael Calcaterra

Signature

Michael Calcaterra

Month Day Year

10/30/89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

ED Straight

Signature

Ed Straight

Month Day Year

10/30/89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

KOPPERS INDUSTRY
P.O. BOX 1067
GAINESVILLE, FL

Phone: **904 376-5144**

32602

Transporter Company Name

DART TRUCKING CO INC.

Phone: **(800) 426-0895**

Designated Facility Name and Site Address

KOPPERS INDUSTRY
BOX 160, TIE PLANT ROAD
TIE PLANT, MS

Phone: **(601) 226-4584**

38960

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

a.

NONHAZARDOUS PROCESS WASTE

85

DM

42,060

P

b.

9.0.

c.

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS SUBSTANCE, SOLID, N.O.S.,
ORM-E, NA9188, (CONTAINS CREOSOTE)

Special Handling Instructions

When handling wear protective equipment such as
IMPERVIOUS GLOVES AND EYE PROTECTION

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

JIM OSBORNE

Jim Osborne

03/03/89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

TIMOTHY D. KLAS

Timothy D. Klas

03/03/89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

MONROE HARPER

Monroe Harper

03/04/89

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

KOPPERS INDUSTRY
P.O. BOX 1067
GAINESVILLE, FL 32602

Phone: (904) 376-5144

Transporter Company Name

DART TRUCKING CO INC.

Phone: 800 426-0895

Designated Facility Name and Site Address

KOPPERS INDUSTRY
BOX 160, TIE PLANT ROAD
TIE PLANT, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
a. NONHAZARDOUS PROCESS WASTE	84	DM	39,200 4620	P G
b.				
c.				

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS SUBSTANCE, SOLID, N.O.S., ORM-E NA9188
(CONTAINS CREOSOTE)

Special Handling Instructions

WHEN HANDLING WEAR PROTECTIVE EQUIPMENT SUCH AS IMPERVIOUS GLOVES AND EYE PROTECTION

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

JIM OSBORN

Jim Osborne

0|2|2|7|8|9|

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

TIMOTHY D. KUTW

Timothy D. Kutw

0|2|2|7|8|9|

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

GARY E. MCCLELLAND

Gary E. McClelland

0|2|2|8|8|9|

SHIPPING DOCUMENT

For Tracking Purposes

Shipper's Name & Mailing Address

KOPPERS Co INC
PO Box 8057
KANSAS CITY MO 64129

MOD 00714651

Phone: (816) 861 5880

Transporter Company Name

DART TRUCK INC Co INC.

MO - H-1459
OH 000 9865825

Phone: () 1-800-238-8357

Designated Facility Name and Site Address

KOPPERS Co INC.
TIE PLANT ROAD
GRENADA MS. 38960

MSD 007027543

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

NO.

TYPE

NON-HAZARDOUS PROCESS WASTE
CONTAINING USED CREOSOTE

85

D.M.

38,350 (EST)

LB - P.

Effie
25 at \$66.00
G. D. Clayton

Additional Descriptions for Materials Listed Above

RQ HAZARDOUS SUBSTANCE LIQUID OR SOLID
NOS ORM - E
NA 9188 CONTAINS CREOSOTE

Special Handling Instructions

WHEN HANDLING WEAR PROTECTIVE EQUIPMENT SUCH AS IMPERVIOUS
GLOVES + EYE PROTECTIONS.

NON HAZARDOUS WASTE - FOR TRACKING PURPOSES ONLY

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Name

Signature

Month Day Year

JAMES M. COLE

James M. Cole

021589

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Name

Signature

Month Day Year

MOTHY D. KLAUS

Mothy D. Klaus

021589

CITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Name

Signature

Month Day Year

ARY E. MCCLELLAND

ARY E. McClelland

022089

SHIPPING DOCUMENT For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Industries, Inc.
280 Koppers Street
P. O. Box 1725
Florence, S.C. 29503
Phone: (803) 669-8231

Transporter Company Name

SAME AS ABOVE

Phone: ()

Designated Facility Name and Site Address

Koppers Industries, Inc.
Box 160, Tie Plant Road
Tie Plant, MS 38960

Phone: (601) 226-4534

S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

Non-Hazardous Process Waste

72

DM

42,810

P

Effie
72 at \$66.00
Rock

Additional Descriptions for Materials Listed Above

R. Q. Hazardous Substance, Solid, N.O.S., ORM-E NA 9188
(Contains Creosote/Pentachlorophenol)

Special Handling Instructions

When handling wear protective equipment such as impervious gloves and eye protection.
Alternate TSD Facility - Koppers, Inc., Inc., 2201 Edmonds Street, North Little Rock,
Ar 72115. Non-Hazardous Waste - For tracking purposes only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Type Name

Signature

Month Day Year

Jim Richardson

Jim Richardson

0 2 0 7 8 9

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Type Name

Signature

Month Day Year

W. Choate

W. Choate

0 2 0 7 8 9

RECEIVER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Type Name

Signature

Month Day Year

DARY E. MCCLELLAND

Dary E. McClelland

0 2 0 9 8 9

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Company INC
Hillsterry Road
NASHUA, N. H. 03061
Phone: (603) 880-8345

MAILING Address : **Koppers Co INC**
P.O. Box 3485
NASHUA, N. H.
03061-3485

Transporter Company Name

FRANKLIN PUMPING SERVICE INC.
P.O. Box 617
INDUSTRIAL ROAD
WRENTHAM, MA. 02093
Phone: (508) 384-6151

EPA ID # **MADO 84814136**

Designated Facility Name and Site Address

Koppers Co INC
TIE PLANT ROAD
TIE PLANT, MS 38960
Phone: (601) 226-4584

EPA ID # **MSD 007027543**

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

NO.

TYPE

a. **NON HAZARDOUS process waste**
containing used creosote

61

DRUMS
17-H

61

Approx
30,000 lbs

effie
61 at 66.00
Rear

b.

c.

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS substance, (solid) N.O.S. ORM-E
NA-9188 (CONTAINS CREOSOTE)

Special Handling Instructions

When handling, wear protective equipment such as impervious gloves and eye protection

NON-HAZARDOUS WASTE - For tracking purposes only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

Paul S. Kikhenstein

Paul S. Kikhenstein

0 | 2 | 0 | 6 | 8 | 9 |

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

RON M^C GRATH

RON M^C GRATH

0 | 2 | 0 | 6 | 8 | 9 |

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

GARY E. MCCLELLAND

GARY E. MCCLELLAND

0 | 2 | 0 | 8 | 8 | 9 |

SHIPPING DOCUMENT

For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Industries, Inc.
280 Koppers Street
P.O. Box 1725
Florence, S.C. 29503
Phone: (803) 669-8231

Transporter Company Name

Same as Above

Phone: ()

Designated Facility Name and Site Address

Koppers Industries, Inc.
Box 160, Tie Plant Road
Tie Plant, Ms 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL QUANTITY

UNIT WT/VOL

a. Non-Hazardous Process Waste

NO.

TYPE

74

DM

37910

P

b.

c.

Effie
174 #166.00
Rock

Addition Descriptions for Materials Listed Above

R.Q. Hazardous Substance, Solid, N.O.S., ORM-E NA 9188
(Contains Creosote)

Special Handling Instructions

When handling wear protective equipment such as impervious gloves and eye protection.
Alternate TSD Facility - Koppers, Ind., Inc., 2201 Edmonds Street, North Little Rock
Ar 72115. Non-Hazardous Waste - For tracking purposes only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

Tim Richardson

Tim Richardson

0 | 1 | 3 | 1 | 8 | 9 |

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

C.W. CADATE

C.W. Cadate

0 | 1 | 1 | 1 | 8 | 9 |

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

GARY MCCLELLAND

Gary McClelland

0 | 2 | 0 | 2 | 8 | 9 |

SHIPPING DOCUMENT For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Industry Inc.
P.O. Box 15490
North Little Rock AR, 72231

Phone: (501) 945-4581

Transporter Company Name

DART Tracking CO. Inc.

Phone: () 1-800-541-9158

Designated Facility Name and Site Address

Koppers Industry Inc.
Box 160, Tie Plant Road
Tie Plant, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

NO.

TYPE

TOTAL
QUANTITY

UNIT
WT/VOL

Nonhazardous Process Waste

70 DM 46020

P

CONTAINING USED CREOSOTE

Effie \$166.00
MOA

Additional Descriptions for Materials Listed Above

? A Hazardous Substance Solid N.P.S. ORM-E NA 9188

(CONTAINS CREOSOTE)

Special Handling Instructions

When handling wear protective equipment such as impervious gloves and eye protection. Alternate TSD Facility - Koppers Ind. Inc. 2201 Edwards St. North Little Rock AR 72117. Non-Hazardous Waste - For Tracking Purposes Only

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Name

Signature

Month Day Year

Ken Martin

Ken Martin

01/25/89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Name

Signature

Month Day Year

Gary Winters

Gary Winters

01/25/89

RECEIVING FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Name

Signature

Month Day Year

GARY E. MCCLELLAND

Gary E. McClelland

01/26/89

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Co INC.
Hillsberry Road
NASHUA, N.H. 03061

Mailing Address

Koppers Co INC
P.O. Box 3485
NASHUA, N.H.

03061

Phone: (603) 880-8345

Transporter Company Name

FRANKLIN Pumping Service Inc.
P.O. Box 617
Industrial Road
Wrentham, MA 02093

Phone: (508) 384-6151

Designated Facility Name and Site Address

Koppers Co INC
TIE PLANT ROAD
TIE PLANT, MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,
HAZARD CODE, AND ID NO.)

CONTAINERS

TOTAL
QUANTITY

UNIT
WT/VOL

NO.

TYPE

NonHAZARDOUS process waste containing
a. used creosote

DRUMS

76

17-H

76

40,000

b.

c.

Effluents 66.00
76 at

Addition Descriptions for Materials Listed Above

RQ HAZARDOUS Substance, (solid) N.O.S. ORM-E

NA 9188 (contains creosote)

Special Handling Instructions gloves + goggles

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

PAUL S. Kilchenstein

Signature

Paul S. Kilchenstein

Month Day Year

10/11/78/9

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

RON McGRATH

Signature

Ron McGrath

Month Day Year

10/11/78/9

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

GARY E. McLELLAND

Signature

Gary E. McLelland

Month Day Year

10/11/98/9

SHIPPING DOCUMENT
For Tracking Purposes

Shipper's Name & Mailing Address

Koppers Industry Inc.
P.O. BOX 15490
North Little Rock AR. 72231

Phone: (501) 945-4581

Transporter Company Name

DART Trucking CO. INC.

Phone: () 1-800-541-9158

Designated Facility Name and Site Address

Koppers Industry Inc.
BOX 160 Tie Plant Road
Tie Plant MS 38960

Phone: (601) 226-4584

U.S. DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CODE, AND ID NO.)	CONTAINERS		TOTAL QUANTITY	UNIT WT/VOL
	NO.	TYPE		
a. Nonhazardous Process waste	70	DM	45020	P
b. CONTAINING USED CREOSOTE				
c.				

Addition Descriptions for Materials Listed Above

R.Q. Hazardous Substance Solid N.O.S. ORM-E NA 9188
(CONTAINING CREOSOTE)

Special Handling Instructions

when handling wear protective equipment such as impervious gloves and eye protection. Alternate TSD Facility - Koppers Ind. Inc. 2201 Edwards ST. North Little Rock AR 72117. Also Hazardous Waste For Tracking Purposes Only.

SHIPPER ACKNOWLEDGEMENT OF RELEASE OF MATERIALS

Print/Type Name

Signature

Month Day Year

Ken Martin

Ken Martin

01/16/89

TRANSPORTER ACKNOWLEDGMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

TIMOTHY B. KIRBY

Timothy B. Kirby

01/16/89

FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

Print/Type Name

Signature

Month Day Year

GARY E. McCLELLAND

Gary E. McClelland

01/17/89



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



May 12, 1989

FILE COPY

Mr. J. D. Clayton
Koppers Industries, Inc.
P. O. Box 160
Tie Plant, Mississippi 38960

Dear Mr. Clayton:

Re: Comprehensive Groundwater
Monitoring Inspection (CME),
Compliance Evaluation
Inspection (CEI) Schedule -
Koppers Industries, Beazer
Materials & Services, Inc.,
Tie Plant, Mississippi -
MSD007027543

We have scheduled the above referenced inspections for your facility on May 18, 1989. A proposed agenda for the inspection is enclosed for your review. Should you have questions or comments, please contact me at (601) 961-5171.

Sincerely,

Kaleel Rahaim

Kaleel Rahaim
Hazardous Waste Division

KR:lr
Enclosure

cc: Mr. James H. Scarbrough, EPA
Mr. Matthew C. Plautz, Beazer Materials & Services

Inspection Agenda
Koppers Industries, Inc.
Beazer Materials & Services, Inc.
Tie Plant, Mississippi
May 18, 1989

9:00 a.m. Opening Conference
 Record Review
 Visual Inspection
 - Closing Surface Impoundment
 - Boiler Ash Landfarm
 - Less than 90 Day Drum Storage Area
 - Spray Field
 Observation of Sampling Event

4:00 p.m. Closing Conference

FILE COPY

May 8, 1989

Mr. Matthew C. Plantz, P. E.
Program Manager - Environmental Ser.
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburg, Pennsylvania 15219

Dear Mr. Plantz:

Re: Modification of Post Closure -
Surface Impoundment - Beazer
Materials & Services, Inc.
(Koppers Company, Inc.), Tie Plant,
Mississippi - MSD007027543

Per your letter of April 13, 1989 requesting a modification of
Mississippi Hazardous Waste Management Permit No. 88-543-01, we would
like to make the following comments:

1. Justification of using a Class I modification per
Mississippi Hazardous Waste Management Regulations (MHWMR)
270-42(a) is based upon the fact that the revised
construction of the closure cap for the surface impoundment
is of a more conservative design than the permitted design.
This would provide more protection for human health and the
environment. We concur that this modification request
should be handled as a Class I modification.
2. As we discussed in our meeting of April 18, 1989, your
document entitled "Construction Specifications for Surface
Impoundment Closure" adequately addressed the closure issue
with only a couple of notations:
 - a. Page 2-1, Section 2.3(a) - as we discussed, reference
should be made here to the Permitted Closure Plan
instead of the revised plan. The only change noted on
the Permitted Closure Plan is the change in cap
construction.
 - b. Page 5-10, Section 5.7(a) - no plastic pipes are shown
in the drawings. Is this section relevant to this
revision?
3. Replacement of any wells damaged during closure activities
should be in accordance with Permit Condition IV.C.2.

Mr. Matthew C. Plantz, P. E.
Page -2-

4. Procedures specified in MHWMR 270.42(a) should be met in modifying the Permit. These procedures are outlined here for your reference:
 - a. Notification to the Regulating Agency - your submittal of April 13, 1989, fulfills this requirement.
 - b. Outline changes from the Permit - Again, your letter and drawings included in the submittal address this requirement.
 - c. Permittee must send notice (of the modification) to all persons on the mailing list and appropriate units of state and local government - a copy of your mailing list is included.
 - d. Notification [as specified in (c)] must be made within 90 days of Director Approval.
 - e. Any person may ask for a review and the Director may for just cause reject any Class I modification.
 - f. Before modification can be made final, the modification will have to be approved by our Permit Board.

Response to these minor deficiencies should be returned within ten days of the date of receipt of this letter.

Should you have additional questions or comments, please contact me at (601) 961-5197.

Sincerely,

Kaleel Rahaim
Hazardous Waste Division

KR:daa

cc: Mr. James H. Scarbrough, EPA



STATE OF ARKANSAS
DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY

8001 NATIONAL DRIVE, P.O. BOX 9583
LITTLE ROCK, ARKANSAS 72209

CERTIFIED MAIL P-844 040 971

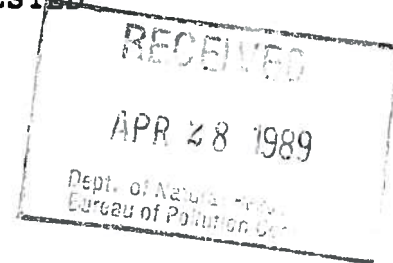
RESTRICTED DELIVERY

RETURN RECEIPT REQUESTED

PHONE: (501) 562-7444

February 21, 1989

Mr. J. R. Batchelder, Vice President
Koppers Company, Inc.
1940 Koppers Building
7th Avenue and Grant Street
Pittsburg, PA 15219



Re: Notice of Violation LIS 89-011

Dear Mr. Batchelder:

Enclosed herewith is a Notice of Violation issued by the Director of the Arkansas Department of Pollution Control and Ecology on February 18, 1989. Also enclosed is a copy of Regulation No. 8: Administrative Procedures.

The penalties and corrective actions called for in the Notice of Violation are at this stage only proposed penalties and actions. The enclosed Regulation No. 8 establishes the right of a party to receive an administrative hearing on the alleged violations. Part V of the Regulation covers enforcement actions. Any Administrative Order issued by the Director in this matter may be appealed.

The Department is willing to discuss settlement of any or all matters described in the Notice of Violation. If you desire to discuss settlement of this matter, please feel free to contact me or have Kopper's legal counsel contact me. Please note, however, that a response to the Notice of Violation is required within twenty (20) days of its receipt.

Sincerely,

Laura L. Mack
Attorney

LLM/ww
Enclosures

cc w/enc.: Koppers Company, Inc.
P.O. Box 15490
N.L.R., Arkansas 72231

Karen Deere
ADPC&E

ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY

IN THE MATTER OF:
Koppers Company, Inc.
ARD006344824

LIS 89-011

NOTICE OF VIOLATION

TO: KOPPERS COMPANY, INC.
436 SEVENTH AVENUE
PITTSBURGH, PENNSYLVANIA 15219

KOPPERS COMPANY, INC.
P.O. BOX 15490
NORTH LITTLE ROCK, ARKANSAS 72231

NOTICE is hereby given that the Director of the Arkansas Department of Pollution Control and Ecology (ADPC&E) has determined that there are reasonable grounds to believe that Koppers Company, Inc. of North Little Rock, Arkansas, has committed the following violations of the Arkansas Hazardous Waste Management Act (Act 406 of 1979, as amended; Ark. Code Ann. Section 8-7-201 et. seq.) and the Arkansas Hazardous Waste Management Code (Code) and the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended; Ark. Code Ann. Section 8-4-201 et. seq.).

ALLEGATIONS AND PROPOSED FINDINGS OF FACT

1. Koppers Company, Inc. (hereinafter Koppers) is a Pennsylvania corporation which is authorized to do business in Arkansas.
2. Koppers owns and operates a wood treatment facility in North Little Rock, Arkansas, at which pentachlorophenol, creosote and copper chromated arsenate have been used.
3. Koppers has utilized two surface impoundments for the storage of R001 defined hazardous waste which subjected the facility to the regulations and requirements of 40 CFR Part 265 as adopted by reference in Section 3 of the Code. On June 30, 1988, ADPC&E

approved, with modifications, a closure and post closure plan for both impoundments.

4. On January 22, 1988, ADPC&E and Koppers entered into Consent Administrative Order LIS 87-052 which incorporated implementation of the approved closure plan in accordance with the applicable regulations. Koppers has failed to obtain and/or submit
 - a. A proposal for the location and construction specifications for a well cluster on the western property line and to install these wells
 - b. A proposal for well location and construction to replace existing R-6 well with a well cluster
 - c. Authorization from the Water Division prior to dewatering of the impoundments
 - d. Compliance with the schedule of closure

These omissions are violations of the Arkansas Hazardous Waste Management Act (Ark. Code Ann. Section 8-7-205) and 40 CFR 265.113(b).

5. On July 25, 1988, ADPC&E conducted a record review of financial assurances documents submitted by Koppers pursuant to 40 CFR 265 Subpart H. In a letter dated July 28, 1988, ADPC&E notified Koppers that the financial test submitted was not approvable and ADPC&E required resubmission of a revised document within thirty (30) days. Koppers has failed to adequately respond to the warning letter and to resolve the deficiencies cited, which is a violation of the Arkansas Hazardous Waste Management Act (Ark. Code Ann. Section 8-7-225) and 40 CFR 265.143, 144 and 147.

6. On June 26-28, 1988, ADPC&E personnel conducted a comprehensive groundwater monitoring evaluation at Koppers' facility. The results of the evaluation revealed the following instances of noncompliance:
 - a. Koppers has failed to determine the rate and extent of hazardous waste constituents in the groundwater as required by 40 CFR 265.93(a)(2).
 - b. Koppers has failed to locate a hydraulically upgradient monitoring well which is not affected by the facility as required by 40 CFR 265.91(a)(1)(ii).
 - c. Koppers has failed to follow its groundwater sampling and analysis plan as required by 40 CFR 265.92(a)(1).
7. The monitoring program at Koppers has documented a release of hazardous constituents to the groundwater. Therefore, Koppers has caused pollution to waters of the state in violation of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. Section 8-4-217[a][1]) and Hazardous Waste Management Act (Ark. Code Ann. Section 8-7-205[4]).

PROPOSED ORDER AND CIVIL PENALTY ASSESSMENT

1. Koppers shall, within twenty (20) days of the date hereof submit to ADPC&E a proposal for the location and construction specifications for a well cluster on the western property line and a new upgradient well for the surface impoundments which are compliant with the requirements of 40 CFR 265 Subpart F.

2. Koppers shall, within twenty (20) days of the date hereof, submit to ADPC&E documentation of financial assurances compliant with the requirements of 40 CFR 265.143, 144 and 147.
3. Koppers shall immediately and continually thereafter follow the provisions of its groundwater monitoring plan.
4. Koppers shall, within sixty (60) days of the date hereof, submit to ADPC&E a corrective action plan designed to identify and assess contamination at the site, conduct a corrective measures study and propose and implement a remedial action plan for cleanup of contamination of all media.
5. For the violations herein above specified, Koppers is hereby assessed the following civil penalties pursuant to Ark. Code Ann. Section 8-7-204 and 8-4-103:
 - a. Thirty Thousand Dollars (\$30,000) for the violations of the Arkansas Hazardous Waste Management Act and 40 CFR 265.113(b) as specified in paragraph 4
 - b. Fifteen Thousand Dollars (\$15,000) for the violations of 40 CFR 265.143, 144 and 147 as specified in paragraph 5
 - c. Thirty Thousand Dollars (\$30,000) for the violations of 40 CFR Subpart F as specified in paragraph 6
 - d. Three Hundred Seventy-five Thousand Dollars (\$375,000) for the violations of the Arkansas Water and Air Pollution Control Act and Hazardous Waste Management Act as specified in paragraph 7

being in the aggregate a total of \$450,000.

THEREFORE, TAKE NOTICE THAT:

Koppers must file a written response to this Notice of Violation with the Secretary, Arkansas Commission on Pollution Control and Ecology, 8001 National Drive, Little Rock, Arkansas 72209, within twenty (20) days of the date hereof, or the allegations herein will be deemed proven. Upon filing a written response within the time provided Koppers will be entitled to an adjudicatory hearing upon the allegations and other matters stated in the Notice of Violation. If no timely response is received, the Director may thereafter issue an administrative order confirming the allegations as findings of fact and assessing civil penalties and ordering actions as stated herein.

Randall Mathis

Randall Mathis
Director

2/18/89
Date



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385
(601) 961-5171



MEMORANDUM

TO: Koppers Compliance File

FROM: Kaleel Rahaim

SUBJECT: Meeting to Discuss Notice of Violations (NOV) and Response

DATE: April 18, 1989

Koppers Industries, Inc. (KII) and Beazer Materials and Services (BM&S) met with members of the Mississippi Bureau of Pollution Control (BPC) to discuss the NOV's and responses to the NOV's. The NOV's were a result of a Compliance Evaluation Inspection (CEI) performed at the Tie Plant (Grenada), Mississippi, facility dated December 12, 1988.

Opening discussions revolved around a definition of the current owner/operator status of units at the facility. A review of happenings in 1988 concerning a change in ownership of the facility by Ms. Billie Nolan of BM&S prefaced remarks on the status of each unit. Ms. Nolan indicated that as a result of the purchase agreement between BM&S and KII, BM&S would retain the "operator" status of units which incurred environmental liabilities prior to December 28, 1988. According to Ms. Nolan, this included both the surface impoundment and the boiler ash landfarm area. The resolution of the spray field would also be the responsibility of BM&S. The less than 90 day container/drum storage area would be the responsibility of KII. An ongoing RCRA Facility Assessment/RCRA Facility Investigation (RFA/RFI) continues to be the responsibility of BM&S.

Issues on the NOV were discussed per the attached agenda. The first issue was the storage of six (6) drums of U051 hazardous waste for longer than 90 days in a less than 90 day storage area. Indications from Ms. Nolan at BM&S were given that earnest attempts were made to dispose of the material but because of the "soft-hammer" waste status of the material, disposal in a timely manner was difficult. BPC noted that at least four (4) drums of material had been stored since 1987, significantly before the land disposal regulations were implemented. Also, BPC noted that this violation had been cited as a result of a May, 1988 CEI, also. Documentation from BM&S relating to their difficulty in disposing of this hazardous waste has been requested by BPC.

Well R-1, the upgradient well at the closing surface impoundment, was improperly constructed. Koppers Company, Inc.'s permit required plugging of this well and replacement with a properly constructed well within 30 days of permit issuance. A new well was constructed the week of March 24, 1988, more than 8 months after permit issuance. Mr. Sam Mabry of BPC indicated the Bureau's contention of the seriousness of a violation of a permit condition.

Significant discussions resulted on the issue of sludge generated at the oil/water separator. Ms. Nolan and Mr. Ray Ohlis, of KII, both proposed their contention that BM&S and KII consider this unit a "process water" unit in which "recycling" takes place as opposed to a "wastewater" stream in which "treatment" takes place. Documents referenced by Ms. Nolan were the K001 Listing document and the February, 1989 Federal Register proposing new regulations affecting the wood treating industry. Both KII and BM&S contend that the sludge generated is a "process residual" as opposed to a K001 hazardous waste. Ms. Nolan indicated that BM&S would be willing to discuss a resolution to the definition issue for future consideration. Mr. Mabry also indicated his willingness to participate in such a discussion but qualified his remarks by indicating that whatever resolution was reached, the issue of previously burned sludge being disposed of at the Grenada landfill must also be addressed. Issues of status of the sludge in the states generated were also discussed. Resolution of this matter at this time was not possible.

Issues concerning the boiler ash landfarm unit were then addressed. Mr. Matt Plautz of BM&S indicated that Total Organic Halogens (TOX) and Appendix III of Mississippi Hazardous Waste Management Regulations (MHWMR) Part 265 analyses were not performed at the interim status unit. No other significant comments were raised on this topic.

Notification of groundwater contamination at the surface impoundment and boiler ash landfarm was discussed by Mr. Dave Bockelmann of BPC and Mr. Matt Plautz. Comments from Mr. Plautz concerning the usefulness of student's T-test and other statistical analysis of groundwater data were presented. His feeling was that because of the low levels of apparent contamination present and some apparent contamination in upgradient and background wells, these analysis may not be valid. Mr. Bockelmann indicated that because of the consistent "hits" shown in the data and where these "hits" occurred, an assessment mode was warranted. Mr. Bockelmann described some directions in which assessment may be aimed. These included 1) addressing groundwater contamination with a groundwater quality assessment program aimed at corrective action, 2) demonstration that the groundwater impact was not as a result of the unit in question, and 3) the use of risk based

Memo to Koppers File
Page -3-

Alternate Concentration Limits (ACLs). Ms. Nolan asked if an assessment program could be incorporated in a facility-wide RFA/RFI. Mr. Steve Spengler of BPC indicated that we would be happy to review that proposal. BM&S will notify of contamination within fifteen (15) days of the date of this meeting. Fifteen (15) days after the date of notification, an assessment plan will be submitted on both units.

Mr. Spengler commented on the condition of the plastic cover at the boiler ash landfarm. Mr. "Rock" Clayton of KII indicated that inspections were conducted regularly at the unit, but better care would be taken to maintain the integrity of the cover.

The gap in the fence around the surface impoundment was mentioned by Mr. Spengler and no further action was noted by BPC.

Mr. Mabry outlined our discussions on penalty calculations. No specific numbers were mentioned, but Mr. Mabry indicated that discussions at this meeting would be reviewed in the final determination of a penalty. Mr. Mabry also commented on the Bureau's concern of the historical regulatory laxness at this facility and on his hopes that with BM&S, a stance closer to regulatory compliance would be achieved.

A review of the modification to the closure plan at the surface impoundment was discussed. Notation was made that the construction of the modified closure cap for the unit was of a more environmentally conservative nature than the permitted cap. I mentioned that based upon discussions with the U.S. Environmental Protection Agency (EPA), the BPC would like to treat this as a minor modification per MHWMR Part 270. Mr. Mabry indicated that the final decision of the type modification used would be by BM&S. Mr. Plautz was given copies of MHWMR Part 270 for review. He indicated that he would respond by April 21, 1989.

KR:els
Attachment

List of Attendees

Beazer Materials & Services, Inc. (BM&S)
Koppers Industries, Inc. (KII)
Mississippi Bureau of Pollution Control (BPC)

April 18, 1989

Billie Schrecker Nolan, Manager, Environmental and Administration Law
Department (BM&S)

Matthew C. Plautz, Program Manager, Environmental Services (BM&S)

Raymond S. Ohlis, Jr., Vice-President and Manager, Treated Wood
Operations (KII)

J. D. "Rock" Clayton, Plant Manager, Grenada Plant (KII)

Robert J. Anderson, Staff Program Manager, Koppers Treated Wood
Products - Keystone Environmental Resources, Inc.

Sam Mabry, Chief, Hazardous Waste Division, Mississippi Bureau of
Pollution Control

Steve Spengler, Section Chief, RCRA TSD, Hazardous Waste Division,
Mississippi Bureau of Pollution Control

Dave Bockelmann, Branch Chief, Hydrogeology, Hazardous Waste Division,
Mississippi Bureau of Pollution Control

Kaleel Rahaim, Environmental Engineer, Hazardous Waste Division,
Mississippi Bureau of Pollution Control

AGENDA

Meeting with Beazer Materials & Services,
Inc. and Koppers Industries, Inc.
April 18, 1989
1:00 PM

- I. Introduction and Overview
- II. Definition of Current Owner/Operator Status at Tie Plant, Mississippi Facility
- III. Drum Storage - Comment (e) on Notification of Violations (NOV)
- IV. Upgradient Well #R-1 - Comment (h) on NOV
- V. Sludge from Oil/Water Separator - Comment (b)
- VI. Boiler Ash Land-farm
 - A. Failure to Analyze for Proper Parameters per Part 265
 - 1. Appendix III
 - 2. TOX - Comment (i) on NOV
 - B. Failure to Notify of Contamination - Comment (a) on NOV
 - C. Plastic Cover - Run On-Run Off Control - Comment (g) on NOV
- VII. Surface Impoundment
 - A. Condition of Fence - Comment (f) on NOV
 - B. Failure to Notify of Contamination - Comment (a) on NOV
- VIII. Miscellaneous
 - A. Boiler Ash Land-Farm Closure Plan
 - B. Surface Impoundment Closure-Revisions



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



April 27, 1989

Mr. Charlie Zeal
Illinois EPA
Division of Land Pollution
2200 Churchhill Road
P. O. Box 19276
Springfield, Illinois 62794-9276

FILE COPY

Dear Mr. Zeal:

As we discussed on the phone on April 26, 1989, the Mississippi Bureau of Pollution Control requests copies of information in your files relating to the designation by the State of Illinois of oil/water separator sludges from wood treating facilities as RCRA K001 hazardous waste. Any specific information relating to the Koppers Company, Inc. facility in Carbondale, Illinois would be especially appreciated.

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

Sincerely,



Kaleel Rahaim
Hazardous Waste Division

KR:lr



MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Pollution Control
P. O. Box 10385
Jackson, Mississippi 39209
(601) 961-5171



April 21, 1989

FILE COPY

Mr. Matthew Plautz, P.E.
Program Manager - Environmental
Manager
Beazer Materials & Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Plautz:

Re: Tie Plant Facility

The Mississippi Department of Natural Resources, Bureau of Pollution Control requests submittal from Beazer Materials & Services, Inc. copies of all manifests for drums received at the Grenada, Mississippi, facility from off-site containing oil/water separator sludge, waste creosote or waste pentachlorophenol used as a fuel additive in the boiler of the referenced facility. We also request a listing and description of waste materials generated on-site that were used as fuel additives in the boiler at the Grenada facility. We request documents on materials received and/or burned in the boiler since February, 1987, or since ash from the boiler has been disposed of in the Grenada Sanitary landfill. We request these documents to be submitted within ten (10) days of receipt of this letter.

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

Sincerely,

Kaleel Rahaim

Kaleel Rahaim
Hazardous Waste Division

KR:lr

cc: Mr. James H. Scarbrough, EPA
Mr. J. R. Batchelder, Koppers Industries, Inc.
Ms. Billie Nolan, Beazer Materials & Services, Inc.

BMFS
Mett Plantz

4/20/89
(412) 227-2952

Phone Conversation

- = Want to use modification - Class I Modification
on new regs - on surface impoundment
- > Requested Fax on 4051 attempts at disposal
Mett indicated he would contact Billie Nolan
at BMFS to get this info together.

Kaleel

2d 4/18/89
m

Form Approved. OMB No. 2050-0039. Expires 9-30-91

GENERATOR

TRANSPORTER

FACILITY

of firm or party

Koppus (BM: S)

dress

Grenada, Ms

Contact

Babette Magee

Phone

(412) 227-2705

I called in order to get clarification on owner/operator (o/o) status of the Boiler Ash Landfarm. Ms. Magee indicated that the letter from Matt Plauty to Steve Spengler on March 22, 1989 was incorrect in relating that BM's would maintain operator status for the boiler ash landfarm. She will get clarification and call us back on this issue.

Signature

Kelley Kahan

Date

4/11/89

Name of firm or party

Koppers (B.M.S.)

Address

Grenada, Mo.

Contact

Matt Plauty

Phone

Matt called concerning update on our comments concerning modification of their closure plan for the surface impoundment at their Grenada, Mo. facility.

My comments were as follows:

- 1) Based upon discussions with Dave Buchelmann and Leo Romanowski at EPA, this should be considered a minor modification since the construction of the proposed cap is more conservative than the permitted cap. Matt indicated that as far as he knew, all other conditions of the permitted plan would apply.
- 2) I asked that he send the department written notification of his proposed modification along with prints.
- 3) Matt asked about timetable for approval of the modifications. I told him we would review.

Signature

Kaleel Khan

Date

4/10/88

ORD OF TELEPHONE CONVERSA

Name of firm or party

Keystone Environmental - Koppers - Grenada, Ms.

Address

Monroeville, Pa

Contact

Diane Smith

Phone

any

Diane called today to indicate that Well #R-1 would be abandoned and replaced with a new well to be drilled tomorrow. I asked that information on plugging of the old well, and construction and location of the replacement well be forwarded to us when available.

Signature

Kelley R. Khan

Date

3/27/85

March 20, 1989

FILE COPY

Mr. Matthew Plants, Program Manager
Environmental Manager
Koppers Company, Inc.
436 Seventh Avenue
Pittsburg, Pennsylvania 15219

Dear Mr. Plants:

Re: 1988 Annual RCRA
Groundwater Monitoring
Summary - Koppers Industries, Inc.
MSD007027543

We have reviewed the referenced document and find it complete.

Concerning Section 4.0, page 4-1, we would like to comment on the statement in paragraph two (2) concerning continued sampling at the boiler ash wells. Mississippi Hazardous Waste Management Regulations (MSHWR) Part 265 Subpart F addresses this issue. Sampling must continue at this unit in the frequencies outlined in MSHWR 265.92(d) and 265.92(e).

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

Sincerely,

Kaleel Bahain
Hazardous Waste Division

RR:eb

cc: Mr. James H. Scarbrough, EPA
Mr. J. R. Batchelder, Koppers Industries, Inc.
Mr. J. D. Clayton, Manager, Koppers Industries, Inc.



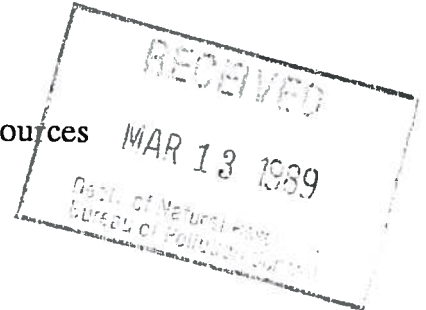
Phone: 412/733-9500

440 College Park Dr., Monroeville, PA 15146

Fax: 412/325-3103

March 10, 1989

Mr. Kaleel Rahaim
Mississippi Dept. of Natural Resources
Bureau of Pollution Control
Hazardous Waste Division
2380 Highway 80 West
Jackson, Mississippi 39204



DIVISION OF SOLID WASTE

REVIEWED BY HC

DATE 3-13-89

COMMENTS Keystone sent

Copy to EPA

RE: Response to Review Comments
Post Closure Part B Application
Boiler Ash Landform
Koppers, Grenada, Mississippi
EPA ID#MSD 007 027 543

Dear Mr. Rahaim:

The following information together with enclosed materials constitutes our response to the above referenced review comments on the Koppers Post Closure Part B Application - Boiler ash Landfarm, dated November, 1988. Two (2) copies each of all enclosures are included to be used to replace like items in Post Closure Permit Application in your possession.

1. Process Code Should Be Completed.

A revised Form #3, P. 3 is enclosed.

2. Page B-1, B-2, Section B-2

Figure B-1 has been revised to replace legal boundaries of the facility. We are in the process of obtaining a new topographic map of the site, a copy of which will be sent to you as soon as it is available to replace the enclosed revised Figure B-1. A revised Figure B-2 is enclosed which does define monitoring well locations.

3. Page B-2, Section B-2

Enclosed is a copy of the 100 year floodplain map which has been revised to show both facility boundary and location of the Ash disposal site.

4. Page E-3, Section E-1g*

Replacement (revised) page(s) are enclosed which reflect statistical analysis (student's "t" test) of phenol and pentachlorophenol data from the 5 rounds of sampling. Also enclosed is a new table, E-1a, which presents these results in the same manner as table E-1 displays indicator parameter results.

Mr. Kaleel Rahaim

March 10, 1989

2.

5. Page 4 E-17, Section E-4d(7) *

Based on further review of results of groundwater monitoring, it is felt that comparisons are inconclusive and that, therefore, additional sampling should be conducted. If results from this round are either inconclusive or if results indicate a significant increase in indicator parameters or constituent levels a comprehensive plan for groundwater quality assessment will be submitted. The plans basic content would be as described in the attached description. (See attachment E-6).

6. Cost Estimate for Non-Clean Closure, Attachment F-2

A revised attachment F-2 is enclosed which has been reviewed, corrected and revised to reflect 1989 cost elements.

7. Page 10-1, Section 10.0, Attachment 1.0

The required Financial Assurance instrument which was thought to be available for this transmittal is in final review process by the client (Beazer Materials and Services, Inc.) and will be available the week of March 15. A copy will be sent to you immediately upon receipt.

If you have any questions, please do not hesitate to call me at 412-733-9490.

* Note: A complete Section E (includes revised pages) is enclosed. Please discard Section E now in your binder and replace with the enclosed.

Very truly yours,



William L. Ice
Senior Project Manager

WLI/mrw
Enclosures

cc: M. Plautz
J. Batchelder
R. Clayton
J. Scarbrough, EPA
Central Files

RECEIVED

MAR 10 1989

Dept. of Natural Resources
Bureau of Pollution Control

COMPLIANCE SAMPLING INSPECTION
KOPPERS COMPANY, INC.,
GRENADA, MISSISSIPPI
ESD PROJECT NO. 88-173
SEPTEMBER 1988

Author: John Schoolfield

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV
ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

DIVISION OF SOLID WASTE

REVIEWED BY KL

DATE 3/15/89

COMMENTS _____

COMPLIANCE SAMPLING INSPECTION
KOPPERS COMPANY, INC.,
GRENADA, MISSISSIPPI
ESD PROJECT NO. 88-173
SEPTEMBER 1988

INTRODUCTION

A RCRA sampling inspection was conducted at Koppers Company, Inc., Grenada, Mississippi, during the week of May 2, 1988. Participants in the inspection were John Schoolfield, Sharon Matthews, and Christina Cunningham, United States Environmental Protection Agency (EPA), Region IV, Environmental Services Division. Mr. Rock Clayton, Plant Manager, and Rob Anderson, consultant from Keystone Environmental Resources, Inc., were present to represent the facility, answer questions, and receive split samples. This investigation was requested by EPA, Region IV, Waste Management Division, to obtain additional information concerning SWMU's and/or other contamination that may be present at the facility. Samples were collected from thirteen monitoring wells, two surface water sites, and five soil sites at the facility. All samples were collected and handled according to the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual (April 1986). Analyses were conducted according to the Analytical Support Branch Operations and Quality Control Manual (June 1985).

BACKGROUND

The Koppers Tie Plant facility is located about five miles southeast of Grenada, Mississippi, (Figure 1). The facility uses creosote and pentachlorophenol-in-oil in the pressure treatment of wood products, principally cross ties, utility poles, and pilings. The property contains a number of solid waste management units (SWMU's). This inspection focused on the wastewater treatment surface impoundment, the sprayfield, the ash landfarm, and a SWMU area where two wastewater ponds were formerly located (see Figure 2).

The Koppers Company surface impoundment, a hazardous waste management unit (HWMU), is an unlined rectangular-shaped pond, (approximately 0.6 acres in area) that has been in operation since the mid-1970's. Process wastewater is pumped to the impoundment for storage and evaporation, resulting in the accumulation of K001 hazardous waste¹. A number of groundwater monitoring wells (designated R-1 through R-9) have been placed around the surface impoundment. Effluent from the impoundment is pumped to the sprayfield for land application.

The sprayfield, located on the north-northwest section of the property, covers about 4 acres and is surrounded by a low berm. The field is covered with vegetation. The sprayfield area contains four groundwater monitoring wells (wells SF-1 through SF-4).

¹Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol (40 CFR, 261.32, 1986)

There was little information concerning the site of two former wastewater ponds (SWMU). According to facility personnel, there were two wastewater/settling ponds, each less than one acre, that were excavated and back filled before November 1980. This area borders an unnamed stream that flows through the facility property.

The ash landfarm (about three acres) began operations when the two wastewater/settling ponds were closed. The landfarm receives flyash residue from the boiler process which, from time to time, burns waste creosote (U051) and certain waste pentachlorophenol (F027) listed hazardous wastes. The ash landfarm area contains four monitoring wells (M-1 through M-4).

SUMMARY OF RESULTS

Samples from all thirteen groundwater monitoring wells contained extractable and/or purgeable organic compounds. Five of these samples also contained elevated metals. The degree of contamination ranged from sample R-12, which contained 27 extractable organic compounds and 7 purgeable organic compounds, to sample R-9D, which contained 1 purgeable organic compound. Samples from 6 of the wells exceeded the National Primary Drinking Water Regulations (NPDWRs)², Maximum Contaminant Level (MCL) for the following constituents: R-9D (benzene), R-6 (benzene), R-5 (benzene, chromium & lead), M-2 (mercury), M-3 (trichloroethylene & chromium), and R-12 (benzene & arsenic). A comparison of surface water samples collected from an unnamed stream the flows through the facility property shows that, while the upstream sample contained 1 extractable organic compound, the downstream sample contained 27 extractable organic compounds and 6 purgeable organic compounds. Soil samples collected from the sprayfield and from the ash landfarm contained elevated concentrations of organic compounds associated with the wood preserving industry, including pentachlorophenol and other K001 hazardous waste constituents.

PROCESS DESCRIPTION

The wood preserving process used at Koppers Company, Inc., involved a steam-conditioning cycle to remove moisture from the wood, followed by a preservative pressure cycle to force preservative into the wood. Pentachlorophenol (PCP) and/or creosote are used as preservatives. Process wastewater contains wood organics and preservative chemicals. A brief discussion of the type of compounds associated with creosote and pentachlorophenol wood preserving follows:³

- o Creosote is not a pure compound but a mixture of compounds which are distilled from coal tar at 200°C to 400°C. This fraction of coal tar is known as creosote oils. Creosote contains numerous chemical compounds and many of these constituents are also found in wastewater and waste sludge from wood preserving facilities using creosote. Some of the more common chemical compounds associated with creosote waste are listed in Table 3.

²Code of Federal Regulations, 40 CFR Part 141, July 8, 1987.

³US-EPA, Development Document for Effluent Limitations Guidelines Standards for the Timber Products Processing Point Source Category, EPA/440/1-81/023, January, 1981.

- o Pentachlorophenol (PCP) is prepared by the chlorination of phenol in the presence of a catalyst. PCP is commonly purchased in bulk crystalline form and dissolved in diesel fuel, the carrier fluid. Several of the compounds associated with the PCP wood preserving process are listed in Table 3.

SAMPLE LOCATION

Groundwater monitoring well and stream sampling locations are shown in Figure 2, and soil sampling locations are shown in Figure 3 and Figure 4. Groundwater samples were collected from thirteen monitoring wells. Two surface water samples and five soil samples were obtained. Soil samples were collected from the ash landfarm, the sprayfield, and the edge of an unnamed stream next to the former waste pond area (SWMU).

Groundwater Monitoring Wells

General: Groundwater monitoring wells R-10A and R-10B appear to be the hydraulically upgradient (background) monitoring wells for the facility.

Surface impoundment (HWMU): Monitoring wells R-9, R-9B, R-8A, R-8B, R-7, R-6 and R-5 circle the surface impoundment, with wells R-6 and R-5 in the hydraulically upgradient direction from the impoundment.

Sprayfield: Ground water monitoring wells SF-1, SF-2, SF-3, and SF-4, are in place around the sprayfield, with well SF-1 in the hydraulically upgradient direction from the sprayfield.

Ash landfarm: The ash landfarm has 4 monitoring wells, M-1, M-2, M-3, and M-4, placed around its parameter, with well M-1 as the hydraulically upgradient well for the landfarm.

Former Waste Pond Site (SWMU): Monitoring well R-12 is located at the former waste pond site.

Surface Water Samples

Upstream: An upstream surface water sample (SW-1) was collected at the location where the stream enters the facility's western property boundary.

Downstream: A downstream surface water sample (SW-2) was collected near the former waste water pond area, approximately 150 feet west of the facility eastern property boundary.

Soil Samples

Stream Bank: An oily sheen was observed on the surface of the unnamed stream that flows along the border of the former waste water pond area. The sheen appeared to be emanating from an oily leachate that was apparent along the north bank of the stream. The leachate area could be seen as a "line" of apparently contaminated soil that ran horizontally along the water's edge on the north bank of the stream. A composite soil sample, SS-1, was collected from the apparently contaminated soil along the north bank.

Ash Landfarm: Two composite soil samples (SS-2 and SS-3) were collected at the ash landfarm. For sampling purposes, an imaginary line was extended from monitoring well M-1 to the west side of the ash landfarm to divided the landfarm into an northern half and a southern half. Composite sample SS-2 was collected from the northern half, and sample SS-3 was collected from the southern half of the ash landfarm. Each composite sample was composed of 20-25 scoops of material taken at the 0-3 inches depth interval.

Sprayfield: Two composite soil samples (SS-4 and SS-5) were collected at the sprayfield. For sampling purposes, the sprayfield was divided into an eastern half and a western half by extending an imaginary line between monitoring wells SF-1 and SF-4. Each composite sample was composed of 10-15 scoops of soil taken at the 0-3 inches depth interval.

ANALYTICAL RESULTS

Samples were analyzed for extractable organic compounds, purgeable organic compounds, and metals. Analytical results are shown in Appendix A. A summary of the results is given in Table 1 and Table 2. Alphabetic letters attached to the right of some of the reported analytical data values are footnotes indicating the following:

J -ESTIMATED VALUE

N -PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

U -MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT

Groundwater Monitoring Wells

R-10A: Sample R-10A contained 5 extractable organic compounds ranging in concentration from 3,000JN ug/l octamethylcyclotetrasiloxane to 60JN ug/l dimethylheptadienone. No purgeable organic compounds were detected. The chromium concentration was equal to the National Primary Drinking Water Regulations (NPDWRs) Maximum Contaminant Level (MCL) of 50 ug/l chromium.

R-10B: Sample R-10B, the first of two consecutive samples collected from well R-10B, contained detectable concentrations of 3 extractable organic compounds ranging in concentration from 30JN ug/l octamethylcyclotetrasiloxane to 5JN ug/l decamethylcyclopentasiloxane. No purgeable organic compounds were detected.

DR-10B: Sample DR-10B, the second of two consecutive samples collected from well R-10B, contained detectable concentrations of 4 extractable organic compounds ranging in concentration from 30JN ug/l octamethylcyclotetrasiloxane to 4JN ug/l dodecanoic acid. No purgeable organic compounds were detected.

Surface Impoundment (HWMU) Monitoring Wells

R-9: Sample R-9 contained detectable concentrations of 4 extractable organic compounds ranging in concentration from 50JN ug/l octamethylcyclotetrasiloxane to 6JN ug/l (dimethylethyl)methylphenol. No purgeable organic compounds were detected.

R-9D: Sample R-9D contained detectable concentrations of 1 purgeable organic compound, 7.4J ug/l benzene, which exceeded the NPDWRs MCL of 5 ug/l benzene.

R-8A: Sample R-8A contained detectable concentrations of 3 extractable organic compounds ranging in concentration from 28 ug/l bis(2-ethylhexyl)-phthalate to 10JN ug/l butylindenebis[(dimethylethyl)methyl]phenol. Sample R-8A also contained 1 purgeable organic compound, carbon disulfide (7.6J ug/l).

R-8B: Sample R-8B contained 1 purgeable organic compound, carbon disulfide (20J ug/l).

R-6: Sample R-6 contained detectable concentrations of 8 extractable organic compounds ranging in concentration from 100JN ug/l 1-methylnaphthalene to 20JN ug/l dimethylnaphthalene(2 isomers). Sample R-6 also contained detectable concentrations of 3 purgeable organic compounds ranging in concentration from 200JN ug/l dihydroindene to 8.8J ug/l carbon disulfide. The NPDWRs MCL of 5 ug/l benzene was exceeded at 9.1J ug/l benzene.

R-5: Sample R-5 contained detectable concentrations of 13 extractable organic compounds ranging in concentration from 300JN ug/l benzothiophene to 50J ug/l phenanthrene. Five purgeable organic compounds were detected, ranging in concentration from 800JN ug/l dihydroindene to 1.4J ug/l o-xylene. The NPDWRs MCL of 5 ug/l benzene was exceeded at 8.0J ug/l benzene. Elevated concentrations of chromium and lead were also detected; the NPDWRs MCL of 50 ug/l chromium was exceeded at 320 ug/l chromium, and the NPDWRs MCL of 50 ug/l lead was exceeded at 57 ug/l lead.

Sprayfield Monitoring Well

SF-3: Monitoring well SF-3 yielded only enough water to obtain a sample for the purgeable organics analysis. Sample SF-3 contained detectable concentrations of 1 purgeable organic compound, carbon disulfide (28J ug/l).

Ash Landfarm Monitoring Wells

M-1: Sample M-1 contained detectable concentrations of 2 extractable organic compounds, bis(2-ethylhexyl)phthalate (1,600J ug/l) and presumptive evidence of presence of a petroleum product. No purgeable organic compounds were detected.

M-2: Sample M-2 contained detectable concentrations of 3 extractable organic compounds ranging in concentration from 100JN ug/l octamethylcyclotetrasiloxane to 20JN ug/l decamethylcyclotetrasiloxane. No purgeable organic compounds were detected. The NPDWRs MCL of 2 ug/l mercury was exceeded at 2.5 ug/l mercury.

M-3: Sample M-3 contained detectable concentrations of 5 purgeable organic compounds ranging in concentration from 1,600 ug/l trichloroethene (trichloroethylene) to 0.55J ug/l benzene. The NPDWRs MCL of 5 ug/l trichloroethylene was exceeded at 1,600 ug/l trichloroethylene. The NPDWRs MCL of 50 ug/l chromium was exceeded at 60 ug/l chromium.

Former Waste Pond Site (SWMU) Monitoring Well

R-12: Sample R-12 contained 27 extractable organic compounds ranging in concentration from 3,400 ug/l naphthalene to 28J ug/l fluorene. Sample R-12 also contained detectable concentrations of 7 purgeable organic compounds

ranging in concentration from 3,000JN ug/l dihydroindene to 21J ug/l o-xylene. The NPDWRs MCL of 5 ug/l benzene was exceeded at 100J ug/l benzene. The NPDWRs MCL of 50 ug/l arsenic was exceeded at 55 ug/l arsenic. The chromium concentration of 40 ug/l was below the NPDWRs MCL of 50 ug/l chromium.

Surface water samples

Up stream: Sample SW-1 contained detectable concentrations of one extractable organic compound, 250 ug/l bis(2-ethylhexyl)phthalate.

Down stream: Sample SW-2 contained detectable concentrations of 28 extractable organic compounds ranging in concentration from 40JN ug/l trimethylphenol(7 isomers) to 1.5J ug/l acenaphthylene. Six purgeable organic compounds were also detected, ranging in concentration from 20JN ug/l dihydroindene to 0.51J o-xylene. Fourteen of the extractable organic compounds are associated constituents of K001 hazardous waste.

Trip Blank

TB: No extractable or purgeable organic compounds, and no metals were detected in the the trip blank.

Soil samples

Stream Bank: Sample SS-1 contained elevated concentrations of 28 extractable organic compounds ranging in concentration from 170,000 ug/kg naphthalene to 7,400J ug/kg benzo-a-pyrene. Eleven of the extractable organic compounds are associated constituents of K001 hazardous waste. Sample SS-1 also contained 2 purgeable organic compounds ranging in concentration from 3,400J ug/kg ethyl benzene to 2900J ug/kg (m-and/or p-)xylene.

Ashfarm

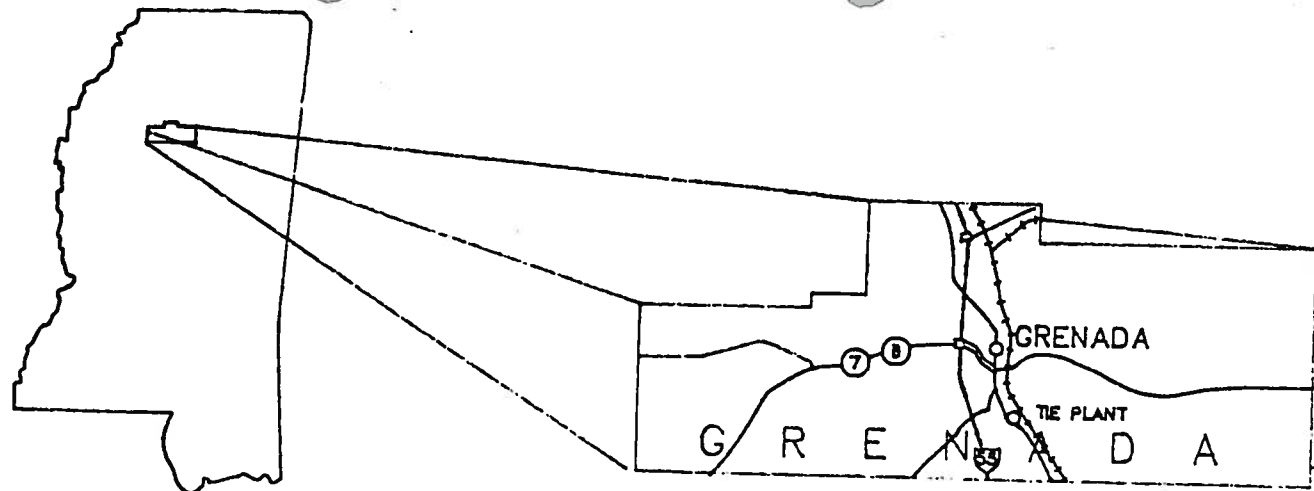
SS-2: Sample SS-2 contained elevated concentrations of 26 extractable organic compounds ranging in concentration from 31,000 ug/kg pyrene to 900J ug/kg dibenzo(a,h)anthracene. Fifteen of the extractable organic compounds are associated constituents of K001 hazardous waste. Sample SS-2 also contained 2 purgeable organic compounds ranging in concentration from 63J ug/kg toluene to 7.9J ug/kg trichloroethene(trichloroethylene).

SS-3: Sample SS-3 contained elevated concentrations of 21 extractable organic compounds ranging in concentration from 210,000 ug/kg fluoranthene to 5,000JN ug/kg methylbenzanthracene. Eleven of the extractable organic compounds are associated constituents of K001 hazardous waste. Sample SS-3 also contained 1 purgeable organic compound, 6.1J ug/kg toluene.

Sprayfield

SS-4: Sample SS-4 contained elevated concentrations of 6 extractable organic compounds ranging in concentration from 100,000J ug/kg pentachloro-phenol to 7,900J ug/kg acenaphthene. Five of the extractable organic compounds are associated constituents of K001 hazardous waste. No purgeable organic compounds were detected.

SS-5: Sample SS-5 contained elevated concentrations of 16 extractable organic compounds ranging in concentration from 66,000 ug/kg pentachlorophenol to 350J ug/kg acenaphthene. Fourteen of the extractable organic compounds are associated constituents of K001 hazardous waste. No purgeable organic compounds were detected.



TO
GRENADA



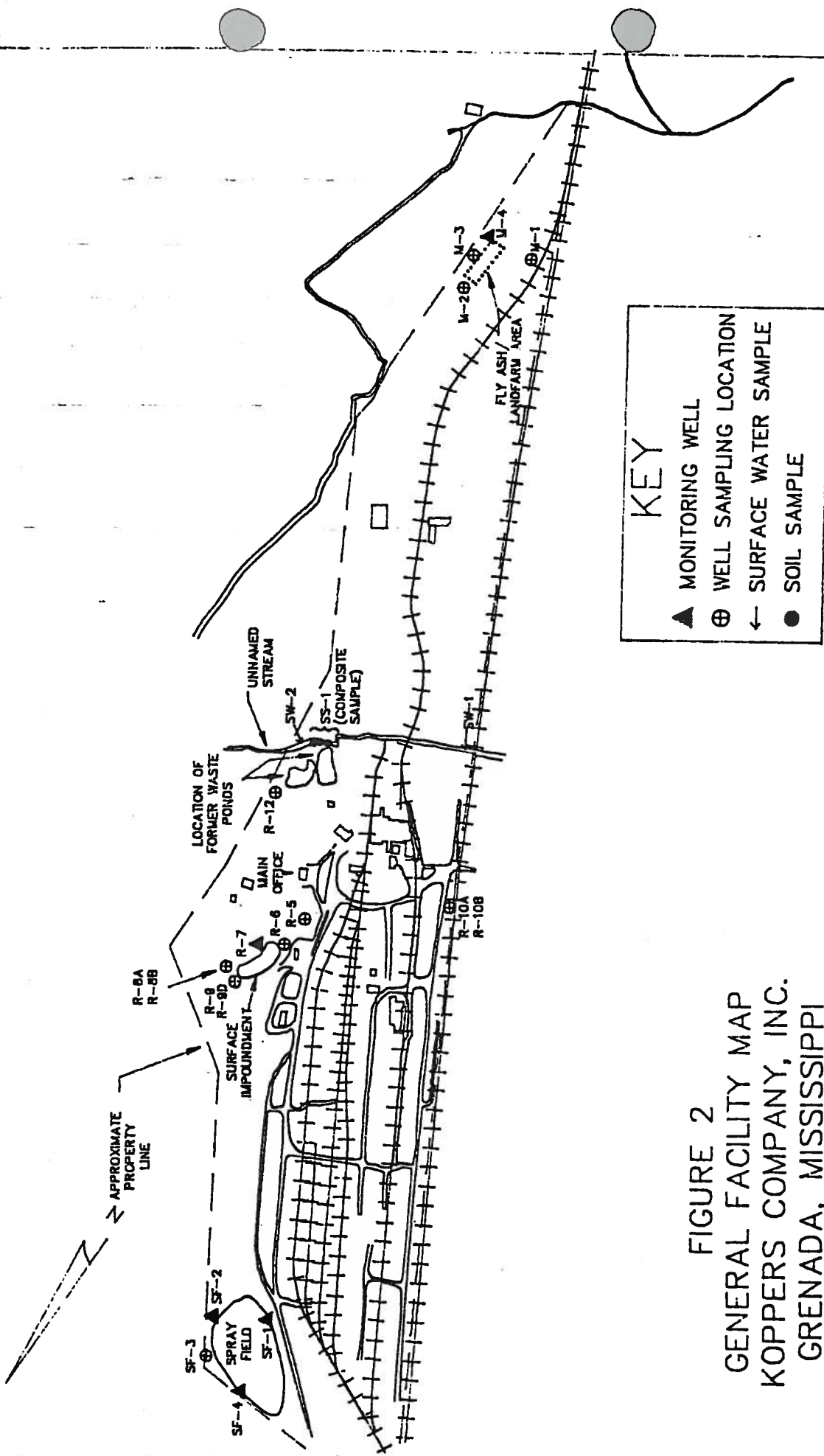
31

TIE PLANT

STREAM

KOPPERS COMPANY, INC.

FIGURE 1
FACILITY LOCATION MAP
KOPPERS COMPANY INC.
GRENADA, MISSISSIPPI
MAY, 1988



KEY

- ▲ MONITORING WELL
- ⊗ WELL SAMPLING LOCATION
- ← SURFACE WATER SAMPLE
- SOIL SAMPLE

0 400 FT
(SCALE IS APPROXIMATE)

FIGURE 2
GENERAL FACILITY MAP
KOPPERS COMPANY, INC.
GRENADA, MISSISSIPPI
MAY, 1988

(AFTER KEYSTONE ENVIRONMENTAL RESOURCES, INC.)

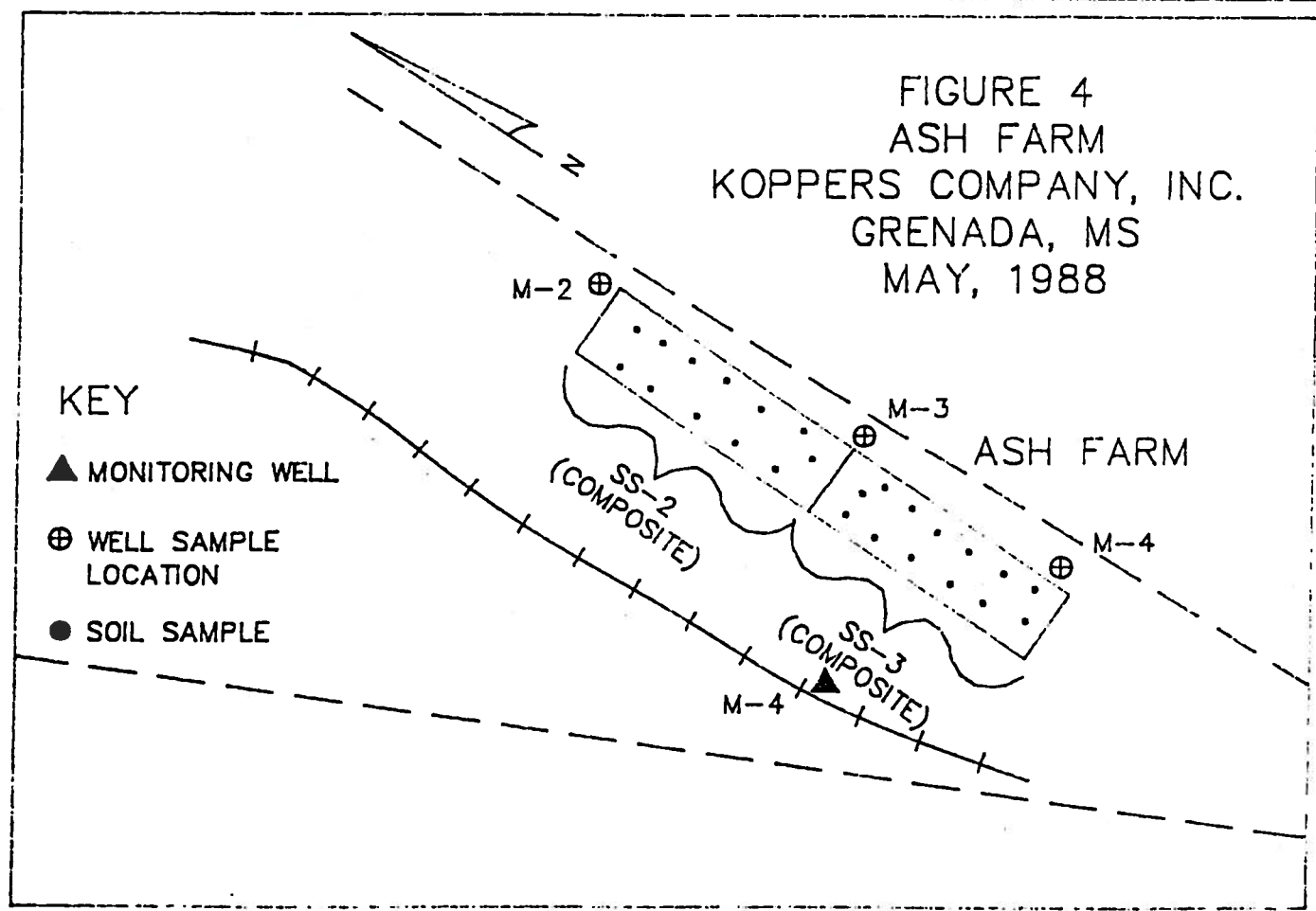
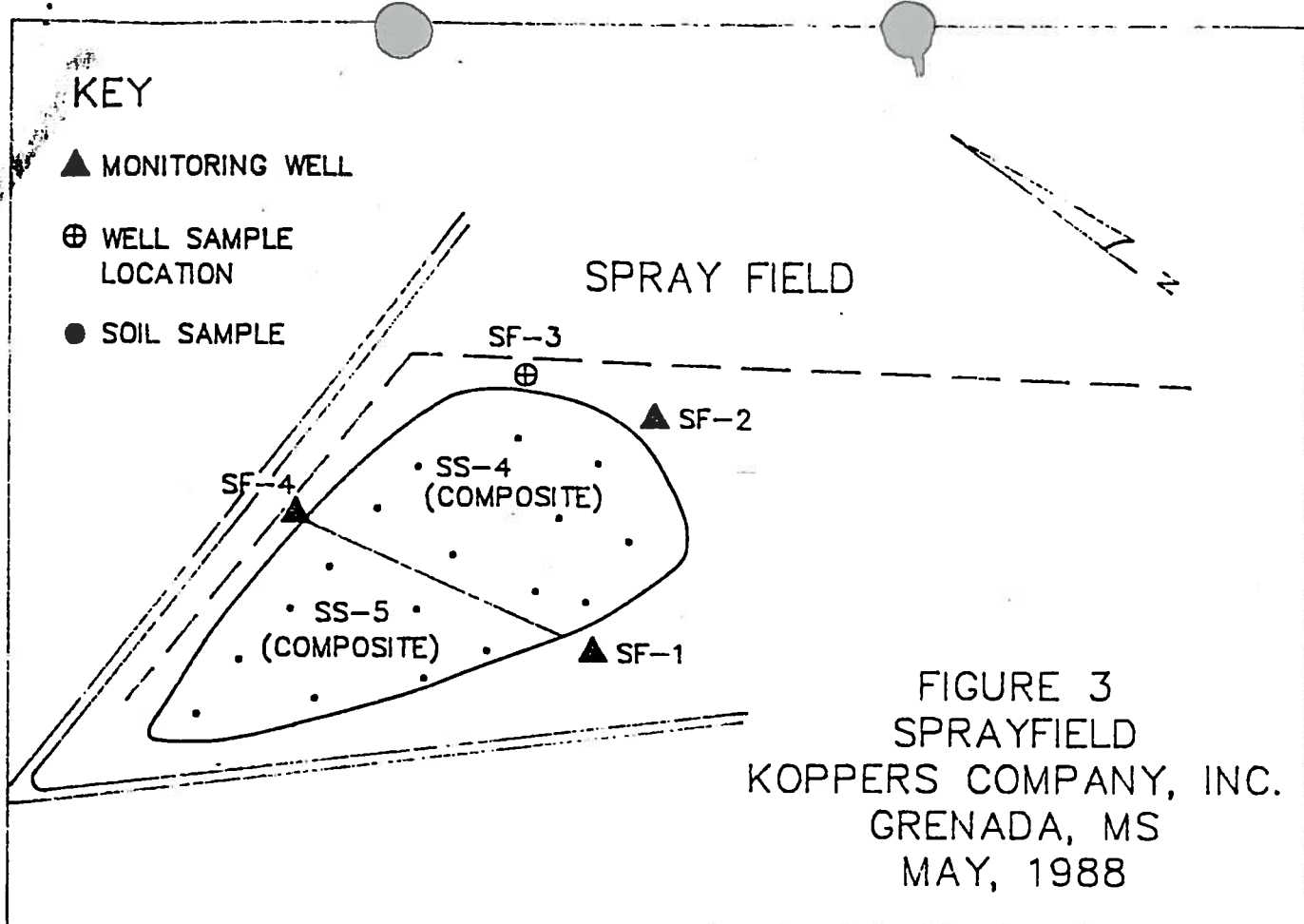


TABLE 1
GROUNDWATER DATA SUMMARY
KOPPERS COMPANY, INC.
GRENADA, MS
MAY, 1988

EXTRACTABLE ORGANIC COMPOUNDS	R-12 MONITOR WELL 05/04/88 1030	R-10A MONITOR WELL 05/03/88 1200	R-10B MONITOR WELL 05/03/88 1135	DR-10B MONITOR WELL 05/03/88 1135	R-9 MONITOR WELL 05/04/88 1300	R-9D MONITOR WELL 05/04/88 1130	R-8A MONITOR WELL 05/04/88 1610	R-8B MONITOR WELL 05/04/88 1600	R-6 MONITOR WELL 05/04/88 1725	R-5 MONITOR WELL 05/04/88 1825	M-1 MONITOR WELL 05/03/88 1525	M-2 MONITOR WELL 05/03/88 1745	M-3 MONITOR WELL 05/03/88 1715	SF-3 MONITOR WELL 05/04/88 0830
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
2-METHYLPHENOL (3-AND/OR 4-METHYLPHENOL PHENOL	590	--	--	--	--	--	--	--	--	--	--	--	--	NA
2,4-DIMETHYLPHENOL	1900	--	--	--	--	--	--	--	--	--	--	--	--	NA
BENZOFURAN	120J	--	--	--	--	--	--	--	--	--	--	--	--	NA
ETHENYLMETHYLBENZENE (2 ISOMERS)	2200	--	--	--	--	--	--	--	--	--	--	--	--	NA
METHYLBENZONITRILE	100JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DIMETHYLPHENOL (NOT 2,4-) (4 ISOMERS)	1000JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
TETRAHYDRONAPHTHALENE	2000JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
CHLOROPHENOL (NOT 2-)	100JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
TRIMETHYLPHENOL (5 ISOMERS)	500JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
TRIMETHYLBICYCLOHEPTANONE	70JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DIHYDROINDENONE	200JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DIHYDROINDENOL (2 ISOMERS)	200JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DIHYDRONAPHTHALENE	100JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
NAPHTHALENECARBONITRILE	40JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
ETHENYLBENZOFURAN	80JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DIHYDROMETHYLLINDOLONE	100JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
ISOUJINOLINE	100JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DIETHYLHEPTADIENONE	60JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DODECAMETHYLCYCLOHEXYLSILOXANE	90JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
3 UNIDENTIFIED COMPOUNDS	700JN	--	--	--	--	--	--	--	--	--	--	--	--	NA
DODECANOIC ACID	--	--	4JN	5JN	--	--	--	--	--	--	--	--	--	NA
DECAMETHYLCYCLOPENTASILOXANE	600JN	5JN	--	--	6JN	--	--	--	--	--	--	--	--	NA
(DIMETHYLETHYL)METHYLPHENOL	--	--	--	--	--	--	10JN	--	--	--	--	--	--	NA
BUTYLIDENE BIS[(DIMETHYLETHYL)METHYL]PHENOL	--	--	--	--	--	--	--	--	--	--	--	--	--	NA
METHYLBENZOFURAN	--	--	--	--	--	--	--	--	--	--	--	--	--	NA
BENZOTHIOPHENE	200JN	--	--	--	--	--	--	--	100JN	50JN	--	--	--	NA
TRIMETHYLPHENOL (3 ISOMERS)	--	--	--	--	--	--	--	--	300JN	300JN	--	--	--	NA
1-METHYLMAPHTHALENE	200JN	--	--	--	--	--	--	--	100JN	100JN	--	--	--	NA
DIMETHYLMAPHTHALENE	--	--	--	--	--	--	--	--	20JN	80JN	--	--	--	NA
DIMETHYLMAPHTHALENE (2 ISOMERS)	--	--	--	--	--	--	--	--	--	70JN	--	--	--	NA
BIPHENYLOL	--	--	--	--	--	--	--	--	--	100JN	--	--	--	NA
CARBAZOLE	60JN	--	--	--	--	--	--	--	20JN	100JN	--	--	--	NA
OCTAMETHYLCYCLOTETRASILOXANE	--	3000JN	30JN	30JN	50JN	--	--	--	--	--	--	100JN	--	NA
DECAMETHYLCYCLOPENTASILOXANE	--	--	N	N	--	--	--	--	--	--	--	20JN	--	NA
PETROLEUM PRODUCT	--	--	--	--	--	N	N	N	--	--	N	--	--	NA
METHYLDIHYDROINDENE	--	--	--	--	--	--	--	--	30JN	30JN	--	--	--	NA

TABLE 1
GROUNDWATER DATA SUMMARY
KOPPERS COMPANY, INC.
GRENADA, MS
MAY, 1988

PURGEABLE ORGANIC COMPOUNDS	R-12 MONITOR WELL 05/04/88 1030	R-10A MONITOR WELL 05/03/88 1200	R-10B MONITOR WELL 05/03/88 1135	DR-10B MONITOR WELL 05/03/88 1135	R-9 MONITOR WELL 05/04/88 1300	R-9D MONITOR WELL 05/04/88 1130	R-8A MONITOR WELL 05/04/88 1610	R-8B MONITOR WELL 05/04/88 1600	R-6 MONITOR WELL 05/04/88 1725	R-5 MONITOR WELL 05/04/88 1825	M-1 MONITOR WELL 05/03/88 1525	M-2 MONITOR WELL 05/03/88 1745	M-3 MONITOR WELL 05/03/88 1715	SF-3 MONITOR WELL 05/04/88 0830
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CARBON DISULFIDE	--	--	--	--	--	--	7.6J	20J	8.8J	--	--	--	6.5J	28J
CIS-1,2-DICHLOROETHENE	--	--	--	--	--	--	--	--	--	--	--	--	57	--
CHLOROFORM	--	--	--	--	--	--	--	--	--	--	--	--	1.6J	--
TRICHLOROETHENE (TRICHLOROETHYLENE)	--	--	--	--	--	7.4J	--	--	9.1J	--	--	--	1600	--
BENZENE	100J	--	--	--	--	--	--	--	--	8.0J	--	--	0.55J	--
TOLUENE	130	--	--	--	--	--	--	--	--	3.4J	--	--	--	--
ETHYL BENZENE	210	--	--	--	--	--	--	--	--	16	--	--	--	--
(M- AND/OR P-)XYLENE	54	--	--	--	--	--	--	--	--	--	--	--	--	--
O-XYLENE	21J	--	--	--	--	--	--	--	--	1.5J	--	--	--	--
INDENE	200JN	--	--	--	--	--	--	--	--	1.4J	--	--	--	--
DIIHYDROINDENE	3000JN	--	--	--	--	--	--	--	200JN	800JN	--	--	--	--

FOOTNOTES

NA - NOT ANALYZED
J - ESTIMATED VALUE
N - PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED

TABLE 2
SURFACE WATER/SOIL SAMPLE DATA SUMMARY
KOPPERS COMPANY, INC.
GRENADA, MS
MAY, 1988

INORGANIC ELEMENT/COMPOUND	SW-1		SW-2		SS-1		SS-2		SS-3		SS-4		SS-5		T8	
	STREAM WATER 05/05/88 1000	UG/L	STREAM WATER 05/05/88 1100	UG/L	STREAM SOIL 05/05/88 1110	UG/KG	ASH FARM SOIL 05/05/88 1230	UG/KG	ASH FARM SOIL 05/05/88 1230	UG/KG	SPRAYFLO SOIL 05/05/88 1330	UG/KG	SPRAYFLO SOIL 05/05/88 1330	UG/KG	TRIP BLANK 05/05/88 1120	UG/KG
SILVER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC	--	--	--	--	--	--	22	--	29	--	7.2	--	6.5	--	--	--
BORON	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--	NA	--
BARIUM	50	--	55	--	30	810	810	--	740	--	75	--	84	--	--	--
BERYLLIUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CADMIUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
COBALT	--	--	--	--	1.1	--	--	--	--	--	3.9	--	4.6	--	--	--
CHROMIUM	--	--	--	--	5.1	45	45	--	41	--	14	--	14	--	--	--
COPPER	--	--	--	--	4.2	130	130	--	140	--	18	--	17	--	--	--
MOLYBDENUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NICKEL	--	--	--	--	2.4	28	28	--	18	--	12	--	11	--	--	--
LEAD	--	--	--	--	5.2	37	37	--	55	--	25	--	27	--	--	--
ANTIMONY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SELENIUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STRONTIUM	66	--	100	--	6.4	480	480	--	550	--	10	--	13	--	--	--
TELLURIUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TITANIUM	79	--	57	--	82	770	770	--	530	--	140	--	160	--	--	--
THALLIUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VANADIUM	13	--	--	--	6.4	34	34	--	23	--	22	--	23	--	--	--
YTTRIUM	--	--	--	--	3.1	--	--	--	--	--	6.3	--	6.0	--	--	--
ZINC	15	--	--	--	30	110	110	--	150	--	120	--	120	--	--	--
ZIRCONIUM	NA	--	NA	--	NA	NA	NA	--	NA	--	NA	--	NA	--	NA	--
MERCURY	--	--	--	--	0.1	0.6	0.6	--	0.6	--	0.3	--	0.3	--	--	--
ALUMINUM	4000	--	2700	--	2300	14000	14000	--	11000	--	12000	--	11000	--	--	--
MANGANESE	510	--	650	--	92	1900	1900	--	2100	--	230	--	360	--	--	--
EXTRACTABLE ORGANIC COMPOUNDS	MG/L	MG/L	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CALCIUM	4.4	--	8.6	--	890	86000	86000	--	97000	--	1700	--	2200	--	--	--
MAGNESIUM	1.6	--	2.2	--	260	4400	4400	--	5100	--	910	--	860	--	--	--
IRON	4.3	--	5.0	--	4400	27000	27000	--	16000	--	11000	--	11000	--	--	--
SODIUM	92	--	100	--	--	1300	1300	--	1500	--	--	--	--	--	--	--
POTASSIUM	--	--	--	--	210	9000	9000	--	12000	--	980	--	810	--	--	--
EXTRACTABLE ORGANIC COMPOUNDS	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
2-METHYLNAPHTHALENE	--	--	--	--	59000	--	--	--	--	--	--	--	--	--	--	--
NAPHTHALENE	--	--	--	--	170000	2500J	2500J	--	--	--	--	--	--	--	--	--
ACENAPHTHYLENE	--	--	1.5J	--	59000	2700J	2700J	--	--	--	7900J	--	1100J	--	--	--
ACENAPHTHENE	--	--	9.1J	--	--	--	--	--	--	--	--	--	350J	--	--	--
OIBENZOFURAN	--	--	3.4J	--	48000	1000J	1000J	--	--	--	--	--	--	--	--	--
FLUORENE	--	--	1.9J	--	59000	2200J	2200J	--	--	--	--	--	--	--	--	--
PHENANTHRENE	--	--	2.3J	--	170000	12000	12000	--	7400J	--	17000J	--	1100J	--	--	--

TABLE 2
SURFACE WATER/SOIL SAMPLE DATA SUMMARY
KOPPERS COMPANY, INC.
GRENADA, MS
MAY, 1988

	SV-1 STREAM WATER 05/05/88 1000	SV-2 STREAM WATER 05/05/88 1100	SS-1 STREAM SOIL 05/05/88 1110	SS-2 ASH FARM SOIL 05/05/88 1230	SS-3 ASH FARM SOIL 05/05/88 1230	SS-4 SPRAYFLO SOIL 05/05/88 1330	SS-5 SPRAYFLO SOIL 05/05/88 1330	TB TRIP BLANK 05/05/88 1120
	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
EXTRACTABLE ORGANIC COMPOUNDS								
ANTHRACENE	--	3.2J	83000	19000	26000J	--	11000	--
FLUORANTHENE	--	24	110000	25000	210000	18000J	3800	--
PYRENE	--	12	74000	31000	170000	12000J	2900	--
BIS(2-ETHYLHEXYL) PHTHALATE	250	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	--	5.0J	19000J	5800J	37000J	--	3600	--
CHRYSENE	--	5.9J	18000J	9300	45000	--	1900J	--
BENZO(B AND/OR K)FLUORANTHENE	--	6.3J	18000J	20000	52000	--	12000	--
BENZO-A-PYRENE	--	1.8J	7400J	5400J	15000J	--	2900	--
INDENO (1,2,3-CD) PYRENE	--	--	--	2900J	6400J	--	2700	--
DIBENZO(A,H)ANTHRACENE	--	--	--	900J	--	--	--	--
BENZO(GH)PERYLENE	--	--	--	3200J	5300J	--	2500	--
2,4-DIMETHYLPHENOL	--	5.9J	--	--	--	--	--	--
PENTACHLOROPHENOL	--	8.2J	--	5400J	20000J	100000J	66000	--
2,3,4,6-TETRACHLOROPHENOL	--	3.0J	--	--	--	--	4200	--
METHYLBENZONITRILE	--	3JN	--	--	--	--	--	--
DIMETHYLPHENOL (2 ISOMERS) (NOT 2,4)	--	40JN	--	--	--	--	--	--
TRIMETHYLPHENOL (7 ISOMERS)	--	40JN	--	--	--	--	--	--
METHYL(METHYLETHYL)PHENOL (2 ISOMERS)	--	4JN	--	--	--	--	--	--
DIHYDROINDENOL	--	7JN	--	--	--	--	--	--
DIMETHYLNAPHTHALENE	--	2JN	--	--	--	--	--	--
NAPHTHALENECARBONITRILE	--	2JN	--	--	--	--	--	--
ISOUINOLINONE	--	8JN	--	--	--	--	--	--
METHYLFLUORANTHENE (2 ISOMERS)	--	4JN	--	--	--	--	--	--
INDENE	--	3JN	10000JN	--	--	--	--	--
BENZOTHIOPHENE	--	2JN	10000JN	--	--	--	--	--
METHYLNAPHTHALENE	--	--	40000JN	--	--	--	--	--
BIPHENYL	--	--	20000JN	--	--	--	--	--
ETHYLNAPHTHALENE	--	--	8000JN	--	--	--	--	--
DIMETHYLNAPHTHALENE(2 ISOMERS)	--	--	60000JN	--	--	--	--	--
PROPENYLNAPHTHALENE(2 ISOMERS)	--	--	20000JN	--	--	--	--	--
METHYLOIBENZOFURAN(2 ISOMERS)	--	--	30000JN	--	--	--	--	--
METHYLFLUORENE	--	--	8000JN	--	--	--	--	--
DIBENZOTHIOPHENE	--	--	20000JN	--	--	--	--	--
PHENYLNAPHTHALENE	--	--	8000JN	--	--	--	--	--
METHYLPHENANTHRENE(4 ISOMERS)	--	--	30000JN	--	--	--	--	--
BENZOFUORENE(3 ISOMERS)	--	--	20000JN	--	--	--	--	--
BIS(01METHYLETHYL)METHYLPHENOL	--	--	--	1000JN	--	--	--	--
CARBAZOLE	--	4JN	30000JN	2000JN	--	--	--	--
METHYLPHENANTHRENE(2 ISOMERS)	--	--	20000JN	3000JN	--	--	--	--
CYCLOPENTAPHENANTHRENE	--	3JN	20000JN	--	--	--	--	--

TABLE 2
SURFACE WATER/SOIL SAMPLE DATA SUMMARY
KOPPERS COMPANY, INC.
GRENADA, MS
MAY, 1988

	SW-1	SW-2	SS-1	SS-2	SS-3	SS-4	SS-5	TB
	STREAM WATER 05/05/88 1000	STREAM WATER 05/05/88 1100	STREAM SOIL 05/05/88 1110	ASH FARM SOIL 05/05/88 1230	ASH FARM SOIL 05/05/88 1230	SPRAYFLO SOIL 05/05/88 1330	SPRAYFLO SOIL 05/05/88 1330	TRIP BLANK 05/05/88 1120
	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
EXTRACTABLE ORGANIC COMPOUNDS								
BENZOFLOURENE(2 ISOMERS)	--	--	--	5000JN	--	--	--	--
METHYLFLUORANTHENE(3 ISOMERS)	--	--	--	4000JN	--	--	--	--
BENZANTHRACENE	--	--	--	1000JN	--	--	--	--
METHYLBENZANTHRACENE(2 ISOMERS)	--	--	--	3000JN	--	--	--	--
DIMETHYLBIPHENYL	--	--	--	--	7000JN	--	--	--
METHYLPHENANTHRENE(3 ISOMERS)	--	--	--	--	20000JN	--	--	--
CYCLOPENTYLPHENANTHRENE	--	--	--	--	30000JN	--	--	--
DIMETHYLPHENANTHRENE(4 ISOMERS)	--	--	--	--	30000JN	--	--	--
PHENYLISOUJOLINE	--	--	--	--	10000JN	--	--	--
BENZONAPHTHOFURAN	--	--	--	--	10000JN	--	--	--
BENZOFLOURENE	--	--	--	1000JN	10000JN	--	--	--
METHYLFLUORANTHENE(4 ISOMERS)	--	--	--	--	10000JN	--	--	--
BENZONAPHTHOTHIOPHENE	--	--	--	--	40000JN	--	--	--
METHYLBENZANTHRACENE	--	--	--	1000JN	9000JN	--	--	--
BENZOFLOURANTHENE (NOT B OR K) (2 ISOMERS)	--	--	--	--	5000JN	--	--	--
PETROLEUM PRODUCT	--	--	--	--	--	--	7000JN N	--
	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
PURGEABLE ORGANIC COMPOUNDS								
TRICHLOROETHENE(TRICHLOROETHYLENE)	--	--	--	7.9J	--	--	--	--
BENZENE	--	2.3J	--	--	--	--	--	--
TOLUENE	--	3.0J	--	63J	6.1J	--	--	--
ETHYL BENZENE	--	--	3400.J	--	--	--	--	--
(M- AND/OR P-)XYLENE	--	2.3J	2900.J	--	--	--	--	--
O-XYLENE	--	1.8J	--	--	--	--	--	--
DIHYDROINOENE	--	0.51J	--	--	--	--	--	--
	--	20JN	--	--	--	--	--	--

FOOTNOTES

NA - NOT ANALYZED
J - ESTIMATED VALUE
N - PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED

TABLE 3
ORGANIC COMPOUNDS
PRESENT IN WOOD PRESERVING PROCESS WASTEWATERS AND SLUDGES¹

<u>Pentachlorophenol Process</u>	<u>Creosote Process²</u>
--PURGEABLE ORGANICS-- Benzene	--PURGEABLE ORGANICS-- Toluene
-----*K001 hazardous Waste Constituents ³ -----	
--EXTRACTABLE ORGANICS-- Pentachlorophenol* Tetrachlorophenols* Trichlorophenols* 2,4-Dichlorophenol 2-Chlorophenol* 2,4-Dimethylphenol* 2,4-Dinitrophenol* 4-Nitrophenol Phenol* 4-Chloro-3-Methylphenol*	--EXTRACTABLE ORGANICS-- Acenaphthene Acenaphthylene* Naphthalene* Anthracene Benzo (a) Anthracene* Dibenzo (a,h) Anthracene* Fluorene Fluoranthene* Benzo (b) Fluoranthene* Benzo (k) Fluoranthene Phenanthrene Benzo (g,h,i) Perylene Benzo (a) Pyrene* Indo (1,2,3-cd) Pyrene* Pyrene Chrysene*

¹US-EPA, EPA/440/1-81/023, January, 1981.

²Also other coal tar derivatives.

³K001 hazardous waste constituents, 40 CFR 261, App. VIII, 1987.

FILE COPY

March 3, 1989

Mr. Donald C. Bluedorn, II
Two Gateway Center, 8th Floor
Pittsburg, Pennsylvania 15222

Dear Mr. Bluedorn:

Re: Mississippi Department of Natural
Resources versus Koppers, Inc.;
Commission Order No. 1440-88; Request
for Discovery

Pursuant to our earlier telephone conversation, please be advised that the above referenced hearing will be tried before Jimmy Palmer, Executive Director for the Department of Natural Resources, who has been designated as hearing officer in this cause. My understanding is that you will be traveling to Jackson, Mississippi to review the Koppers case file on March 7, 1989, and that we will attempt to meet with Mr. Palmer regarding an appropriate hearing date for this matter.

When you come to Mississippi to review our files, hopefully you will be able to supply us with the following discovery requests which relate to the Tie Plant facility:

1. Any and all engineering reports, including design information and unit descriptions of all wastewater treatment units at said facility. This should include, but not be limited to, any equalization units, oil/water separation units, coagulation/ flocculation systems, clarification units, service impoundments, condenser cooling water ponds, sand filtration units, and spray irrigation fields.
2. Any and all schematic diagrams showing wastewater flow through the wastewater treatment system.
3. The timeframe when various wastewater treatment units were placed on line and taken off line at said facility.

Mr. Donald C. Bluedorn, II

Page -2-

4. A copy of any and all wastewater analyses taken from any point of the wastewater treatment system at said facility.
5. A copy of any and all soil analyses taken from the spray irrigation field at said facility.
6. A copy of any and all operation and maintenance manuals utilized for operation of the wastewater treatment system at said facility.
7. A copy of any and all operating logs generated from operation of the wastewater system at said facility.
8. Documentation of any and all wastewater treatment training provided to operators of the wastewater treatment facility at said facility.

Does not exist

Thank you for your assistance in this matter. If I have not been clear in my description, or if I can be of any service to you prior to the hearing date, please do not hesitate to call. With best wishes, I am

Very truly yours,

Art Prestage
Special Assistant Attorney General

AP:els

FILE COPY

March 2, 1989

Mr. J. R. Batchelder, V. P.
Koppers Industries, Inc.
736 Seventh Avenue
Pittsburg, Pennsylvania 15219

Dear Mr. Batchelder:

Please find enclosed copies of the inspection report and checklists completed, for the inspection conducted on December 12, 1988, at Koppers' Tie Plant, Mississippi facility.

Please note the apparent violations listed in paragraph ten (10) of the inspection report. We consider these apparent violations to be serious and the Mississippi Bureau of Pollution Control is considering enforcement action.

Before further action is taken, we ask for Koppers Industries' comments within ten (10) days of receipt of this letter. Upon receipt of comments, we will contact Koppers regarding further actions.

If you should have questions concerning this matter, please contact me at (601) 961-5171.

Sincerely,

Wm. Stephen Spengler, P.E., Coord.
RCRA TSD Branch
Hazardous Waste Division

WSS:KR:lr
Enclosures

cc: Mr. J. D. Clayton, Koppers Industries, Inc.
Mr. James H. Scarbrough, EPA (w/enclosure)



March 22, 1989

FEDERAL EXPRESS

Mr. William S. Spengler, P.E.,
Coordinator, RCRA TSD Branch
Hazardous Waste Division
Mississippi Department of Natural
Resources, Bureau of Pollution Control
2380 Highway 80 West
Jackson, MS 39204

RE: Koppers Industries, Inc.
Tie Plant, MS Facility

Dear Mr. Spengler:

In response to your letter dated March 2, 1989, regarding alleged violations at the Koppers Industries, Inc. wood treating plant in Tie Plant, Mississippi, Beazer Materials and Services, Inc. (BMS) has prepared the following comments. As you are aware, the facility has undergone a change of ownership. BMS (formerly Koppers Company, Inc.) has retained the status as "operator" of all RCRA regulated units at the facility (except the container/drum storage building) and has assumed responsibility for these units under the sales contract with the new owner, Koppers Industries, Inc.

We have reviewed the conclusions drawn from your December 12, 1988 facility inspection, and present the following itemized comments for your attention.

(a) MHWMR 265.93: Statistical analyses have been performed on groundwater sampling results for all referenced units. These results were included in the RCRA annual groundwater monitoring report submitted to MDNR on March 1, 1989 pursuant to MHWMR 265.94 (interim status). The permit conditions for the surface impoundment clearly state that one year of data be collected in order to calculate background values for the listed hazardous constituents. Since this year began on June 28, 1988, a full set of background data has not, as yet, been developed. The impoundment is currently undergoing closure and is expected to be in post-closure status in calendar year 1989. Statistical analysis on data collected during the first half of 1988 has indicated significant differences in conventional parameters, and subsequent confirmation in later quarters. BMS proposes to collect the first year of data (through June 1989) and at that time assess the need for instituting a groundwater monitoring program at the impoundment.

REVIEWED BY JCR
DATE 3/24/89
COMMENTS Copy sent to
EPA 3-28-89

It is BMS's position that the sprayfield is not a hazardous waste unit because neither K001 bottom sediment sludge nor any other RCRA hazardous waste was ever applied to the field. As a protective measure, however, groundwater monitoring was instituted at the sprayfield. However, BMS now is in litigation with MDNR on this issue and a hearing currently is scheduled to be held at the end of April.

Since the sprayfield is not a regulated RCRA unit, the requirements of MHWMR 265.93 are inapplicable and it is not necessary to perform statistical analyses for the field. Since it is our position that the sprayfield is not a hazardous waste unit, and since a hearing on the issue will be held soon, we do not believe that a groundwater quality assessment plan (GWQAP) must be submitted for the field or that further protective action is meaningful or appropriate at this time. If BMS is unsuccessful in its litigation on this issue and it ultimately is determined that the field is a hazardous waste unit, we will proceed to fulfill the applicable requirements of the hazardous waste management regulations. Until such time as that occurs, we will not be submitting a GWQAP for the sprayfield.

- A Part B permit application was submitted for the boiler ash disposal area on November 9, 1988. Included in this application are provisions for monitoring groundwater. An accelerated groundwater monitoring program was established during 1988, and a reanalysis of statistical data indicates that statistically significant differences exist. The statistical evaluation of this data indicates a significant increase for the TOC values when comparing the compiled background data from well M-1. Despite the outcome of the statistical evaluation, the concentration of TOC detected is low (<1.6 mg/l). A significant increase in conductivity is noted for M-2, M-3, and M-4 versus the data generated from Well M-1. This is believed to be due to the large variance in background values collected during the accelerated groundwater monitoring program. The statistical evaluation of the data for PCP and phenol shows no significant increase in phenols level, but does indicate a significant increase for PCP values. However, the results are complicated by false positives and concentrations are near or at detection limits in all cases except for well M-2, which is reported at 4.2 ug/L. This level is also below the practical quantitative level (PQL) for PCP of 5 ug/L provided in 40 CFR 264, Appendix IX (Ground-Water Monitoring List). The PCP level for well M-2 shows a steady decline, since the initial round of sampling.

As a result of the above, additional information is required in order to accurately determine whether significant increases have occurred at the boiler ash disposal area. If after subsequent sampling rounds, the potential for the degradation of downgradient ground water quality exists, a groundwater quality assessment program will be initiated. Based on the findings of the EPA, we propose to add trichloroethene and cis-1,2 dichloroethene to the list of parameters to be specified in the post-closure care permit by MDNR.

(b) MHWMR 264.71 and 264.72: The wastes described in this paragraph were not K001 wastes. The EPA Listing Document for K001 sludge describes the various types of wood preservation processes and the treatment of wastewater generated in those processes. The diagrams of the processes on pages 147-151 of the Listing Document (copies attached) each show that "wastewater" is generated after the oil/water separation stage. Accordingly, since K001 sludge is defined as bottom sediment sludge from the treatment of wastewater, and the EPA's diagrams show that wastewater is not generated until after the oil/water separation step, the oil/water separator sludge does not result from the treatment of wastewater and, therefore, cannot be considered to be K001 sludge.

In addition, at several places in the Listing Document, the Agency indicates that the sludge it is describing as K001 accumulates in wastewater treatment ponds or surface impoundments. This is further evidence that the EPA did not intend to classify oil/water separator sludge as K001 "bottom sediment" sludge.

It is corporate policy to handle nonhazardous wastes in the same manner that hazardous wastes are handled to ensure the safety of workers, the public, and the environment. It is also corporate policy to use manifests to ship and track nonhazardous wastes even though they are not regulated as hazardous under RCRA.

(c) MHWMR Part 262 Subparts A,B, and C: Because the material that was burned was not a hazardous waste, the resultant ash was not a hazardous waste. See (b) above.

(d) MHWMR Part 268: Land disposal restrictions do not apply to the ash because neither K001 nor any other land-banned waste was burned to form the ash. See (b) above.

(e) MHWMR 262.34: The six drums of U051 were sent to Rollins Environmental Services, Inc. on March 3, 1989. A copy of the manifest is attached. The return manifest has not been received at the Tie Plant facility. ✓

(f) MHWMR 264.14: A section of the fence had been removed to allow equipment into the impoundment to remove hazardous wastes as part of the impoundment closure process. This section of fence was replaced on December 13, 1988.

(g) MHWMR 265.301: Adequate runoff and runoff control and wind dispersal protection was provided for the boiler ash landfarm. A plastic cover was applied over the entire area on September 21, 1988 in partial compliance with Mississippi Department of Natural Resources Administrative Order dated July 22, 1988. In addition, the second paragraph on page 10 of the "RCRA Inspection Report" states that plastic is present on the ash landfarm area.

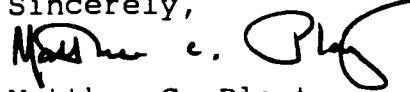
Additionally, a Part B post closure application for the ash landfarm was submitted to MDNR on or about November 8, 1988. The Part B addresses runoff and runoff control. A closure plan was also submitted to MDNR. Once this plan is approved by MDNR, closure will be initiated.

(h) Permit Condition IV.C.3.: The existing well, R-1, will be drilled out and backgrouted, and a new replacement well will be installed adjacent to it within 30 days. BMS contends that well R-10 satisfies the requirement for an upgradient well during the interim period.

(i) MHWMR 265.92: TOX analyses were inadvertently omitted from previous analyses. However, this parameter will be added to the sampling suite in subsequent sampling rounds.

If you would like additional information or have any questions, please call me.

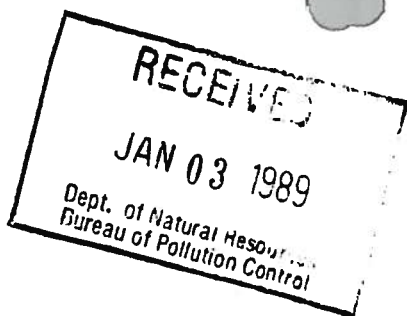
Sincerely,



Matthew C. Plautz
Program Manager-Environmental Resources

MCP/cr
Enclosure

cc: R. Anderson
J. Batchelder
B. Nolan
B. Hamilton
R. Clayton
J. Scarbrough



KOPPERS

December 28, 1988

CERTIFIED MAIL
RETURN RECEIPT
REQUESTED

CORRECTED COPY

Mr. Sam Mabry, Chief
Hazardous Waste Branch
Mississippi Department of Natural
Resources
2380 Highway 80 West
Jackson, MO 39204

Re: Koppers Company, Inc.
Grenada, MI Facility
RCRA Permit #88-543-01

Dear Mr. Mabry:

BEAZER MATERIALS SERVICES, INC.

On or about December 29, 1988, Koppers Company, Inc. will transfer to Koppers Industries, Inc. ("KII") ownership and operation of its operating plant located at Tie Plant, Mississippi, including, but not limited to, all hazardous waste management units located thereat. Under the terms of the sale, Koppers has agreed to remain the "operator" of the surface impoundment pending closure and, if necessary, any post-closure activities. Koppers also has agreed to retain responsibility for any and all financial assurance required in connection therewith.

Accordingly, we request that two hazardous waste permits be issued for the Tie Plant facility and transferred to KII. One permit should be in the name of KII as "owner" and "operator" and should cover only the container storage area. The other permit should be transferred to KII as "owner" and Koppers as "operator" and should cover the surface impoundment only. Further, as of December 29, 1988, Koppers and KII request that you and the relevant EPA Region amend EPA Form 8700-12 and any similar documents presently on file to add KII as the new owner.

Should you have any questions concerning this matter, please call Babette Magee at Koppers at (412) 227-2705.

Sincerely,

Jill M. Blundon
Jill M. Blundon

Vice President.
General Counsel and Secretary

DIVISION OF SOLID WASTE

REVIEWED BY 1/2

DATE 2/13/89

COMMENTS sent to EPA

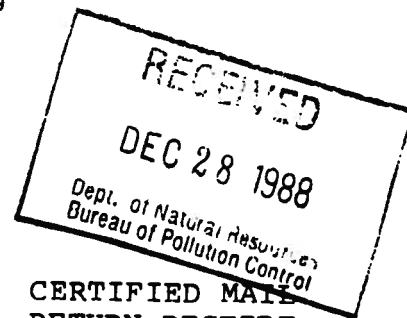
2/15/89

cc: R. K. Wagner
J. Batchelder
R. J Anderson
B. Magee
G. Edwards
J. Scarbrough (US EPA Region IV)

KOPPERS

James R. Batchelder
Vice President and Manager
Technical and Environmental Services
Tar and Wood Products Sector

December 22, 1988



CERTIFIED MAIL
RETURN RECEIPT
REQUESTED

Mr. Sam Mabry, Chief
Hazardous Waste Branch
Mississippi Department of Natural
Resources
2380 Highway 80 West
Jackson, MO 39204

Re: Koppers Company, Inc.
Grenada, MI Facility
RCRA Permit #88-543-01

KII

Dear Mr. Mabry:

On or about December 28, 1988, Koppers Company, Inc. will transfer to Koppers Industries, Inc. ("KII") ownership and operation of its operating plant located at Tie Plant, Mississippi, including, but not limited to, all hazardous waste management units located thereat. Under the terms of the sale, Koppers has agreed to remain the "operator" of the surface impoundment pending closure and, if necessary, any post-closure activities. Koppers also has agreed to retain responsibility for any and all financial assurance required in connection therewith.

Accordingly, we request that two hazardous waste permits be issued for the Tie Plant facility and transferred to KII. One permit should be in the name of KII as "owner" and "operator" and should cover only the container storage area. The other permit should be transferred to KII as "owner" and Koppers as "operator" and should cover the surface impoundment only.

Should you have any questions concerning this matter, please call Babette Magee at Koppers at (412) 227-2705.

Sincerely,

James R. Batchelder
Vice President and Manager
Technical and Environmental Services
Tar and Wood Products Sector

DIVISION OF SOLID WASTE
REVIEWED BY KL
DATE 2/13/89
COMMENTS Int to EPA
2/15/89

JRB/cr

cc: R. K. Wagner
R. J. Anderson
B. Magee
G. Edwards
J. Clayton

MEMORANDUM

FILE COPY

Permit

TO: Steve Spengler
FROM: Kaleel Rahaim
SUBJECT: Closure Plan for the Ash Waste Pile
Koppers Company, Inc., (now BM&S)
Grenada, Mississippi, MSD007027543
DATE: March 27, 1989

As a result of Mississippi Commission on Natural Resources, Bureau of Pollution Control Order Number 728-87, Beazer Materials & Services, Inc. (formerly Koppers Company, Inc.) has submitted a closure plan.

The closure plan provides for closing a 0.73 acre landfill in which ash from a boiler using K001 Hazardous Waste was generated. Approximately 890 yds³ of ash material was placed in the area from 1979-1987.

A RCRA type cap composed of a clay barrier layer followed by an impermeable synthetic membrane liner (20 mil PVC), then a geotextile fabric is proposed. Over these layers will be placed a free draining granular layer followed by another geotextile layer followed by a suitable cohesive cover soil. Finally, a layer of topsoil that will be vegetated is applied.

Groundwater monitoring is continuing at this location per regulations.

KR:cm

KOPPERS COMPANY, INC.
GRENADA, MISSISSIPPI
EVENTS

November 3, 1987 - Administrative Order Number 1280-87 issued.

December 4, 1987 - Closure Plan for Boiler Ash Landfarm received.

January 27, 1989 - Plan Reviewed and sent to Public notice.

March 1, 1989 - Public Notice Deadline - No comments received.

Peat Marwick Main & Co.One Mellon Bank Center
Pittsburgh, PA 15219

Telephone 412 391 9710

Telex 7106642199 PMM & CO PGH

Telecopier 412 391 8963

Independent Auditors' Report

**The Board of Directors and Shareholders
BNS Acquisitions, Inc. and
Mississippi Department of Natural Resources:**

We have audited the accompanying consolidated balance sheet of BNS Acquisitions, Inc. and Subsidiary (the Company) as of June 30, 1988, and the consolidated statements of operations and cash flows of Koppers Company, Inc. and Subsidiaries (Predecessor Company, a majority owned subsidiary of the Company) for the six-month period then ended and the consolidated statements of shareholders' equity of BNS Acquisitions, Inc. and Subsidiary as of June 30, 1988 (inception of operations) and Koppers Company, Inc. and Subsidiaries (Predecessor Company) for the six-month period then ended and have issued our report thereon dated October 28, 1988, except as to the last four paragraphs of note 8 and the last paragraph of note 11, which are as of November 14, 1988, and the second paragraph of note 10, which is as of January 3, 1989.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

Pursuant to the provisions of the Environmental Protection Agency Regulation Subpart H of 40 CFR Parts 264 and 265 and specific state regulations, where applicable, the chief financial officer, Roy G. Turner, has prepared a letter dated March 10, 1989, demonstrating both liability coverage and assurance of closure and post-closure care. Certain financial data set forth in that letter is identified with an asterisk as having been derived from the independently audited, year-end financial statements. We have compared such financial data identified with an asterisk to the Company's consolidated financial statements as of June 30, 1988 referred to above.

In connection with our audit and the procedure referred to above, nothing came to our attention that caused us to believe that the financial data identified with an asterisk contained in the above mentioned March 10, 1989 letter should be adjusted. However, it should be noted that our audit was not directed primarily toward obtaining knowledge of the above mentioned financial data.

Pittsburgh, Pennsylvania
March 10, 1989



Beazer Materials and Services, Inc.
A Member of THE BEAZER GROUP
Environmental Services
436 Seventh Avenue, Pittsburgh, PA 15219
Phone: 412-227-2500 Fax: 412-227-2042



March 15, 1989

P 979 039 946
CERTIFIED MAIL
Return Receipt Requested

David J. Bockelmann
Hazardous Waste Division
Mississippi Department of Natural Resources
P. O. Box 10385
Jackson, Mississippi 39209

Dear Sir:

Enclosed is documentation in support of RCRA Financial Requirements for Beazer Materials and Services, Inc. (formerly Koppers Company, Inc.) for the latest completed fiscal year, which ended June 30, 1988.

There has been a change in the ownership of Koppers Company, Inc. during 1988. As of June 30, 1988, BNS Acquisitions, Inc. ("BNS Acquisitions"), a Delaware Corporation, and an indirect wholly-owned subsidiary of Beazer PLC, acquired indirectly more than 90 % of the outstanding common stock of Koppers Company, Inc. ("Koppers"). On November 14, 1988, BNS Acquisitions acquired indirectly the balance of the common shares. On January 20, 1989, BNS Acquisitions merged into Koppers, and on January 26, 1989, the name of Koppers was changed to Beazer Materials and Services, Inc. ("BM&S").

BM&S now encloses documentation in support of the use of the financial test to demonstrate the required financial responsibility. Enclosed is a letter from the Chief Financial Officer concerning the RCRA Financial Requirements, the audited financial statements of BNS Acquisitions for the six-month period ended June 30, 1988, which includes the certified public accountants report, and the special report from BNS Acquisitions CPA.

Due to the change in ownership, a complete audit of BM&S accounts was conducted and financial information was not available until March 6, 1989. Thank you for your patience during this delay.

If you have any questions, do not hesitate to contact me at 412-227-2821.

Sincerely yours,

Russell S. Vorpe
Environmental Department
Regulatory Compliance Section

Enclosures



Letter from the Chief Financial Officer (to demonstrate liability coverage or to demonstrate both liability coverage and assurance of closure or post-closure care).

March 10, 1989

Executive Director
Mississippi Department of Natural Resources
P. O. Box 10385
Jackson, Mississippi 39209

Re: Financial Assurance Documents

Dear Sir or Madam:

I am the Chief Financial Officer of Beazer Materials and Services, Inc., (formerly Koppers Company, Inc.) 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage and closure and/or post closure care as specified in Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265.

The firm identified above was, as of June 30, 1988, the owner or operator of the following facilities for which liability coverage for both sudden and nonsudden accidental occurrences is being demonstrated through the financial test specified in Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265:

Grenada Plant
Koppers Company, Inc.
P. O. Box 160
Grenada, Mississippi 38960
MSD 007027543

The firm identified above guarantees, through the corporate guarantee specified in Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265, liability coverage for both sudden and nonsudden accidental occurrences at the following subsidiaries of the firm:

NONE

March 10, 1989

1. The firm identified above was, as of June 30, 1988, the owner or operator of the following facilities for which financial assurance for closure or post-closure care is demonstrated through the financial test specified in Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265. The current closure and/or post-closure cost estimates covered by the test are shown for each facility.

<u>Facility and ID Number</u>	<u>Current Estimates</u>		
	<u>Closure Cost</u>	<u>Post-Closure Cost</u>	<u>Total Cost</u>
Grenada Plant Koppers Company, Inc. P. O. Box 160 Grenada, Mississippi MSD 007027543	\$ 506,510.00	\$ 0.00	\$ 506,510.00

2. The firm identified above guarantees, through the corporate guarantee specified in Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265, the closure and post-closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the closure or post-closure care so guaranteed are shown for each facility:

NONE

3. In states where DNR is not administering the financial requirements of Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265, this firm is demonstrating financial assurance for the closure or post-closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of the Mississippi Hazardous Waste Regulations Parts 264 and 265. The current closure or post-closure cost estimates covered by such a test are shown for each facility:

<u>Facility and ID Number</u>	<u>Current Estimates</u>		
	<u>Closure Cost</u>	<u>Post-Closure Cost</u>	<u>Total Cost</u>
See Attachment A	\$ 9,918,179.00	\$ 16,817,363.00	\$ 26,735,542.00

March 10, 1989

4. The firm identified above was, as of June 30, 1988, the owner or operator of the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care, is not demonstrated either to EPA or a State through the financial test or any other financial assurance mechanisms specified in Subpart H of 40 CFR Parts 264 and 265 or equivalent or substantially equivalent State mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility:

NONE

5. The firm identified above was, as of June 30, 1988, the owner or operator of the following UIC facilities for which financial assurance for plugging and abandonment is required under Part 144. The current closure cost estimates as required by Mississippi Hazardous Waste Regulations Part 144.62 are shown for each facility:

NONE

This firm is not required to file a Form 10-K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on June 30. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended June 30, 1988.

March 10, 1989

PART B. LIABILITY COVERAGE AND FINANCIAL ASSURANCE

ALTERNATIVE II

1. Sum of current cost estimates (Total of all cost estimates listed above.)	\$	26,735,542
2. Amount of annual aggregate liability coverage to be demonstrated.	\$	8,000,000
3. Sum of Lines 1 and 2.	\$	34,735,542
4. Current bond rating of most recent issuance of this firm and name of rating service		Moody's - Baa
5. Date of issuance of bond		November 18, 1977
6. Date of maturity of bond		August 1, 2007
*7. Tangible Net Worth	\$	461,954,000
*8. Total Assets in the United States. (Required only if less than 90 % of firm's assets are located in the United States.)	\$	Not Applicable

T E S T		YES	NO
9. Is line 7 at least \$10,000,000. ?		X	
10. Is line 7 at least 6 times line 3 ?		X	
*11. Are at least 90 % of assets located in the United States ? If not, complete line 12.		X	
12. Is line 8 at least 6 times line 3 ?		Not Applicable	

March 10, 1989

Except as to language used herein that is necessary to reflect the change in ownership of the subject facilities, I hereby certify that the wording of this letter is identical to the wording specified in the Mississippi Hazardous Waste Regulation 264.151(g) as such regulations were constituted on the date shown immediately below.

Yours very truly,



Roy G. Turner
Executive Vice President and Chief
Chief Financial Officer



March 10, 1989

Enclosures

A T T A C H M E N T A

COST ESTIMATES

FACILITY LOCATION	1988 CLOSURE	1988 POST CLOSURE	TOTAL COST
MONTGOMERY PLANT P.O. BOX 510 1451 LOUISVILLE STREET MONTGOMERY, AL 36101 ALD 004009403	\$ 2,838.00	\$ 1,468,080.00	\$ 1,470,918.00
WOODWARD COKE PLANT KOPPERS DRIVE DOLOMITE, AL 35061 ALD 000771949	\$ 32,257.00	\$ 60,243.00	\$ 92,500.00
WOODWARD TAR PLANT 1835 KOPPERS DRIVE DOLOMITE, AL 35061 ALD 085765808	\$ 41,471.00	\$ 130,500.00	\$ 171,971.00
LITTLE ROCK PLANT P. O. BOX 22066 NORTH LITTLE ROCK, AR 72117 ARD 006344824	\$ 178,644.00	\$ 2,208,300.00	\$ 2,386,944.00
COMMERCE PLANT P. O. BOX 22066 LOS ANGELES, CA 90022 CAD 004937793	\$ 18,275.00		\$ 18,275.00
FEATHER RIVER PLANT P. O. BOX 351 OROVILLE, CA 95965 CAD 009112087	\$ 2,440,984.00	\$ 63,394.00	\$ 2,504,378.00
FONTANA PLANT P. O. BOX 489 FONTANA, CA 92335 CAD 073568677	\$ 65,169.00		\$ 65,169.00
ONTARIO PLANT P. O. BOX 1112 GUASTI, CA 91743 CAD 000617324	\$ 0.00	\$ 0.00	\$ 0.00
OXNARD PLANT 5980 ARCTURUS AVENUE OXNARD, CA 93003 CAD 087163267	\$ 23,977.00		\$ 23,977.00
RICHMOND PLANT 3501 COLLINS AVENUE RICHMOND, CA 94806 CAD 043242718	\$ 9,314.00		\$ 9,314.00

COST ESTIMATES

FACILITY LOCATION	1988 CLOSURE	1988 POST CLOSURE	TOTAL COST
DENVER PLANT 465 WEST 56TH AVENUE DENVER, CO 80216 COD 007077175	\$ 185,103.00	\$ 1,208,560.00	\$ 1,393,663.00
GAINESVILLE PLANT P. O. BOX 1067 GAINESVILLE, FL 32602 FLD 004057535	\$ 14,400.00	\$	\$ 14,400.00
CONLEY PLANT 1579 KOPPERS ROAD CONLEY, GA 30027 GAD 004009403	\$ 30,326.00	\$	\$ 30,326.00
CAMPBELL PLANT HONOLULU WOOD TREATING 91-291 HANUA STREET EWA BEACH, HI 96707 HID 009198797	\$ 19,633.00	\$	\$ 19,633.00
MAUI PLANT P. O. BOX 1650 MAUI, HI 96732 HID 059475210	\$ 9,685.00	\$	\$ 9,685.00
CARBONDALE PLANT P. O. BOX 271 CARBONDALE, IL 62901 ILD 000819946	\$ 567,033.00	\$ 4,823,610.00	\$ 5,390,643.00
CHICAGO PLANT 3900 S. LARAMIE AVENUE CICERO STATION CHICAGO, IL 60650 ILD 005164611	\$ 113,279.00	\$	\$ 113,279.00
GALESBURG PLANT P. O. BOX 1191 GALESBURGH, IL 61401 ILD 990817991	\$ 6,705.00	\$	\$ 6,705.00
VALPARAISO PLANT P. O. BOX 104 VALPARAISO, IN 62901 IND 000781609	\$ 10,746.00	\$	\$ 10,746.00
GUTHRIE PLANT P. O. BOX 8 GUTHRIE, KY 42234 KYD 006383392	\$ 69,588.00	\$	\$ 69,588.00

COST ESTIMATES

FACILITY LOCATION	1988 CLOSURE	1988 POST CLOSURE	TOTAL COST
KANSAS CITY PLANT P. O. BOX 8057 KANSAS CITY, MO 64129 MOD 007146517	\$ 4,325.00	\$	\$ 4,235.00
NEWARK PLANT 480 FRELINGHUYSEN AVENUE NEWARK, NJ 07114 NJD 002149789	\$ 41,734.00	\$	\$ 41,734.00
PORT NEWARK PLANT MARITIME & TYLER STREETS PORT NEWARK, NJ 07114 NJD 000542282	\$ 4,045.00	\$	\$ 4,045.00
ORRVILLE PRODUCT DEVELOPMENT P. O. BOX 905 ORRVILLE, OH 44667 OHD 068911494	\$ 8,300.00	\$	\$ 8,300.00
PARR - WEST 5151 DENISON AVENUE CLEVELAND, OH 44102 OHD 060431947	\$ 18,186.00	\$	\$ 18,186.00
YOUNGSTOWN PLANT P. O. BOX 1137 YOUNGSTOWN, OH 44501 OHD 004198784	\$ 174,144.00	\$	\$ 174,144.00
BRIDGEVILLE PLANT P. O. BOX 219 BRIDGEVILLE, PA 15017 PAD 063764898	\$ 72,089.00	\$	\$ 72,089.00
SCIENCE & TECHNOLOGY CENTER 440 COLLEGE PARK DRIVE MONROEVILLE, PA 15146 PAD 082245754	\$ 15,290.00	\$	\$ 15,290.00
SUSQUEHANNA PLANT P. O. BOX 189 MONTGOMERY, PA 17752 PAD 056723265	\$ 230,505.00	\$	\$ 230,505.00
VERONA RESEARCH FACILITY 15 PLUM STREET VERONA, PA 15147 PAD 980554950	\$ 6,900.00	\$	\$ 6,900.00

COST ESTIMATES

FACILITY LOCATION	1988 CLOSURE	1988 POST CLOSURE	TOTAL COST
FLORENCE PLANT P. O. BOX 1725 FLORENCE, S.C. 29503 SCD 003353026	\$ 769,602.00	\$ 1,485,660.00	\$ 2,255,262.00
HOUSTON TAR PLANT P. O. BOX 96150 HOUSTON, TX 77015 TXD 008089021	\$ 156,318.00	\$	\$ 156,318.00
HOUSTON WOOD PLANT P. O. BOX 16220 HOUSTON, TX 77222 TXD 020802393	\$ 5,502.00	\$	\$ 5,502.00
RICHMOND PLANT 4005 CHARLES CITY ROAD RICHMOND, VA 23231 VAD 003121977	\$	\$ 1,126,710.00	\$ 1,126,710.00
ROANOKE PLANT P. O. BOX 791 SALEM, VA 24153 VAD 003125770	\$ 460,501.00	\$ 373,817.00	\$ 834,318.00
COLLIERS LANDFILL P. O. BOX M FOLLANSBEE, WV 26037 WVD 550010144	\$ 2,709,371.00	\$ 1,358,520.00	\$ 4,067,891.00
FOLLANSBEE PLANT P. O. BOX M FOLLANSBEE, WV 26037 WVD 004336749	\$ 250,000.00	\$	\$ 250,000.00
GREEN SPRING PLANT P. O. BOX 98 GREEN SPRING, WV 26722 WVD 003080959	\$ 38,000.00	\$	\$ 38,000.00
SUPERIOR PLANT P. O. BOX 397 SUPERIOR, WI 54880 WID 006179493	\$ 607,520.00	\$ 2,509,969.00	\$ 3,117,489.00
TOTAL CLOSURE COST - ATTACHMENT A :		\$ 9,918,179.00	
TOTAL POST CLOSURE COST - ATTACHMENT A :		\$ 16,817,363.00	
TOTAL COSTS :		\$ 26,735,542.00	

RD OF TELEPHONE CONVERSA

Name of firm or party

Koppers (BM & S) - Grenada, Mississippi

Address

Grenada, Ms.

Contact

Matt Plauty - Pittsburg (BM & S)

Phone

(412) 227-2952

Matt called and wanted to review two points concerning Koppers- Grenada Closure Plan for the surface impoundment.

- 1) Construction of the cap over the surface impoundment will probably destroy 5 wells immediately adjacent to the closing impoundment. Matt wanted to know what procedure to use in amending the plan to indicate that these wells would be abandoned and rebuilt within 10' of the original wells.
- 2) Bids have been let on the RCRA Type Cap in the new revised closure plan. Matt indicated that they would prefer to go with that cap. He wanted to know how complicated the modification process was to approve use of that construction. I

Signature

[Signature]

Date

(over)
4/6/88

2-27-89

Name of firm or party

Koppers - Keystone Environmental

Address

Grenada, Ms.

Contact

Bill Ice

Phone

RE: Boiler Ash Landform Postclosure Plan -

Bill called referencing the NOD's due March 13, 1989. Basically, Bill indicated that most of the issues should be addressed by that time.

The areas that may be delayed in resolving are the Aerial photograph - a new one is being requisitioned, should be available in about 6 weeks; the quality assurance plan - a more complete narrative should arrive by the deadline, but the corrective action portion will await further discussion and groundwater assessment monitoring.

Bill and I discussed the responsibility for the financial mechanism. There still appears to be some question as to whom responsibility will go - to KTI or BM; S. Bill will try to resolve this.

Kelvin P. P.

Signature

2-28-89

Date

March 30, 1989

FILE COPY

Ms. Jill M. Blundon
Vice President
General Counsel and Secretary
Beazer Materials and Services, Inc.
436 Seventh Avenue
Pittsburgh, Pennsylvania 15219

Dear Ms. Blundon:

Several letters have been received by the Bureau of Pollution Control since the merger of Koppers Company, Inc., with BNS Acquisitions, Inc. forming Beazer Materials and Services, Inc. These letters attempt to outline the responsibilities of owner/operator status for the Tie Plant (Grenada), Mississippi facility.

Letters from you and Mr. James Batchelder in late December 1988, (copies enclosed), indicate that "Koppers Company, Inc. will transfer to Koppers Industries, Inc. ("KII") ownership and operation of its operating plant located in Tie Plant, Mississippi, including, but not limited to, all hazardous waste management units located thereat. Under the terms of the sale, Koppers has agreed to remain the "Operator" of the surface impoundment pending closure and, if necessary, any post-closure activities." In a separate letter dated March 22, 1989, Mr. Matthew Plautz indicates that "BMS (formerly Koppers Company, Inc.) has retained the status as "operator" of all RCRA regulated units at the facility (except the container/drum storage building ...)."

Since there appears to be some confusion as to the owner/operator status at the facility, the Mississippi Bureau of Pollution Control requests the following information:

- 1) Resubmittal of a revised Part A for the Tie Plant, Mississippi facility indicating current owner/operator status on all regulated units from both BMS and KII.
- 2) Confirming communication concerning EPA Identification Number - who will retain current number, who needs to apply for a new number.
- 3) Reply from Koppers Industries, Inc., on financial assurance mechanism (if necessary) for any RCRA units applicable.
- 4) Listing of responsible personnel to whom subsequent communications on RCRA related items should be addressed.

Done
April 7,
1989

Ms. Jill M. Blundon
Vice President
Page -2-

We request that these items be forwarded to our attention within 10 days from the receipt of this letter. Should you have additional questions or comments, please call me at (601) 961-5171.

Sincerely,

Kaleel Rahaim
Hazardous Waste Division

KR:cm
Enclosure

cc: Mr. James Scarbrough, EPA (w/enclosures)
Mr. James R. Batchelder, KII
Mr. Matthew C. Plautz, BM&S, Inc.

Koppers

FILE COPY

February 14, 1989

CERTIFIED MAIL NO. P 879 759 026

Ms. Jill M. Blundon
Vice President
General Counsel and Secretary
Beazer Materials and Services, Inc.
436 Seventh Avenue
Pittsburg, Pennsylvania 15219

Dear Ms. Blundon:

Re: Koppers Company, Inc.
Grenada, Mississippi Facility
Owner/Operator Changes
EPA I.D. No. MSD007027543

We have reviewed your letter of December 20, 1988, regarding the transfer of ownership of Koppers Co., Inc., Tie Plant, Mississippi facility, to Koppers Industries, Inc. Furthermore from our recent telephone conversation with Ms. Babette Magee on February 14, 1989, we understand that Koppers Company, Inc. has been acquired by Beazer Materials and Services, Inc. The information which was provided is not sufficient to enable us to proceed with the requested modifications.

Please refer to the attached regulations, specifically Mississippi Hazardous Waste Regulations (MHWMR) Part 270.40. This section requires: (1) the submittal of a revised permit application from both companies identifying the appropriate owner and/or operator for each unit, and (2) compliance with financial requirements as stated in this section. This information was required ninety (90) days prior to the scheduled change.

At this time, we have not adopted the new regulations regarding the permit modification process as found in Part 270.42. Therefore, once in receipt of the requested information, we will propose the modifications to the Mississippi Natural Resources Permit Board for their approval.

It is our understanding that the boiler ash landfarm, spray irrigation field, container storage area and all other solid waste management units will be owned and operated by Koppers Industries, Inc. The surface impoundment currently being closed will be owned by Koppers Industries, Inc., but will be operated by Beazer Materials and Services, Inc.

With regard to the container storage area, as long as hazardous wastes are stored for less than ninety (90) days, a permit is not required for this unit. Please refer to the requirements found in MHWMR Part 262 regarding less than 90 day storage units.

The application for the boiler ash landfarm and any future applications regarding the above units should include the appropriate owner/operator.

We will also require that new notification forms be submitted by each operator. Upon receipt, we will reassign the current EPA I.D. number to Beazer Materials and Services, Inc., and issue a number to Koppers Industries, Inc.

We ask that the requested information be submitted to our office from each company by March 14, 1989

Should additional questions arise, please feel free to contact me at (601) 961-5171.

Sincerely,

Kaleel Rahaim
Hazardous Waste Division

KR:lr

Enclosure

cc: Mr. James H. Scarbrough, EPA

FILE COPY

February 13, 1989

Mr. Robert J. Anderson
Keystone Environmental Resources, Inc.
436 Seventh Avenue, Suite 1940
Pittsburg, Pennsylvania 15219

Dear Mr. Anderson:

Re: Review Comments - Post Closure
Part B Application - Boiler
Ash Landfarm
Koppers, Grenada, Mississippi
EPA I.D.# MSD007027543

We have reviewed your Part B Post Closure Care Permit Application for the Boiler Ash Landfarm. Enclosed are our comments for your review. Please submit the additions and/or modifications by March 13, 1989. If you have any questions or comments, please contact me at (601) 961-5171.

Sincerely,

Kaleel Rahaim
Hazardous Waste Division

KR:lr

Enclosure

cc: Mr. James H. Scarbrough, EPA (w/enclosure)

February 14, 1989

CERTIFIED MAIL NO. P 879 759 027

Mr. James R. Batchelder
Vice President and Manager
Technical & Environmental Services
Tar & Wood Products Sector
Koppers Industries, Inc.
436 Seventh Avenue
Pittsburg, Pennsylvania 15219

Dear Mr. Batchelder:

Re: Koppers Company, Inc.
Grenada, Mississippi Facility
Owner/Operator Changes
EPA I.D. No. MSD007027543

We have reviewed your letter of December 28, 1988, regarding the transfer of ownership of Koppers Co., Inc., The Plant, Mississippi facility, to Koppers Industries, Inc. Furthermore from our recent telephone conversation with Ms. Babette Magee on February 14, 1989, we understand that Koppers Company, Inc. has been acquired by Beazer Materials and Services, Inc. The information which was provided is not sufficient to enable us to proceed with the requested modifications.

Please refer to the attached regulations, specifically Mississippi Hazardous Waste Regulations (MHWMR) Part 270.40. This section requires: (1) the submittal of a revised permit application from both companies identifying the appropriate owner and/or operator for each unit, and (2) compliance with financial requirements as stated in this section. This information was required ninety (90) days prior to the scheduled change.

At this time, we have not adopted the new regulations regarding the permit modification process as found in Part 270.42. Therefore, once in receipt of the requested information, we will propose the modifications to the Mississippi Natural Resources Permit Board for their approval.

It is our understanding that the boiler ash landfarm, spray irrigation field, container storage area and all other solid waste management units will be owned and operated by Koppers Industries, Inc. The surface impoundment currently being closed will be owned by Koppers Industries, Inc., but will be operated by Beazer Materials and Services, Inc.

With regard to the container storage area, as long as hazardous wastes are stored for less than ninety (90) days, a permit is not required for this unit. Please refer to the requirements found in MHWMR Part 262 regarding less than 90 day storage units.

The application for the boiler ash landfarm and any future applications regarding the above units should include the appropriate owner/operator.

We will also require that new notification forms be submitted by each operator. Upon receipt, we will reassign the current EPA I.D. number to Beazer Materials and Services, Inc., and issue a number to Koppers Industries, Inc.

We ask that the requested information be submitted to our office from each company by March 14, 1989

Should additional questions arise, please feel free to contact me at (601) 961-5171.

Sincerely,

Kaleel Rahaim
Hazardous Waste Division

KR:lr

Enclosure

cc: Mr. James H. Scarbrough, EPA

FILE 00
January 17, 1989

Ms. Carolyn A. Kaye
Pendygraft & Plews
1346 N. Delaware
Indianapolis, Indiana 46202

Dear Ms. Kaye:

Re: Letter of December 13, 1988

This is to advise that the State of Mississippi had two non-commercial hazardous waste landfills in operation in 1985. These were at the following locations:

1. Koppers - The unit at this facility is a boiler ash landfill that was not considered to be a hazardous unit until July, 1988. Therefore, no liability coverage was considered to be required for this unit in 1985.
2. Morton Thiokol, Inc. - Enclosed please find a "Certificate of Liability Insurance" for Morton Thiokol, Inc.

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

Sincerely,

Wm. Stephen Spengler, P.E.
TSD Branch

WSS:lr
Enclosure