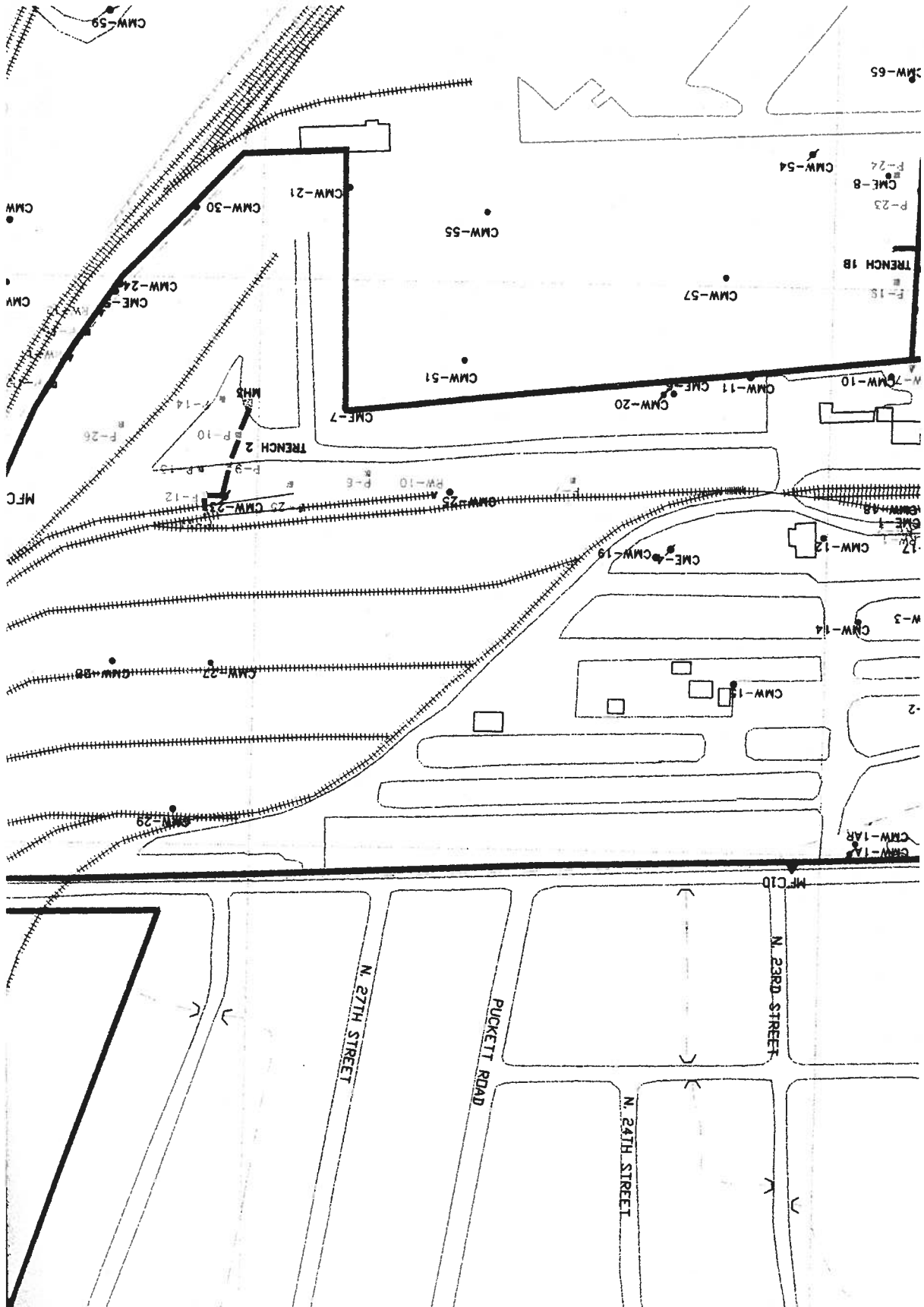
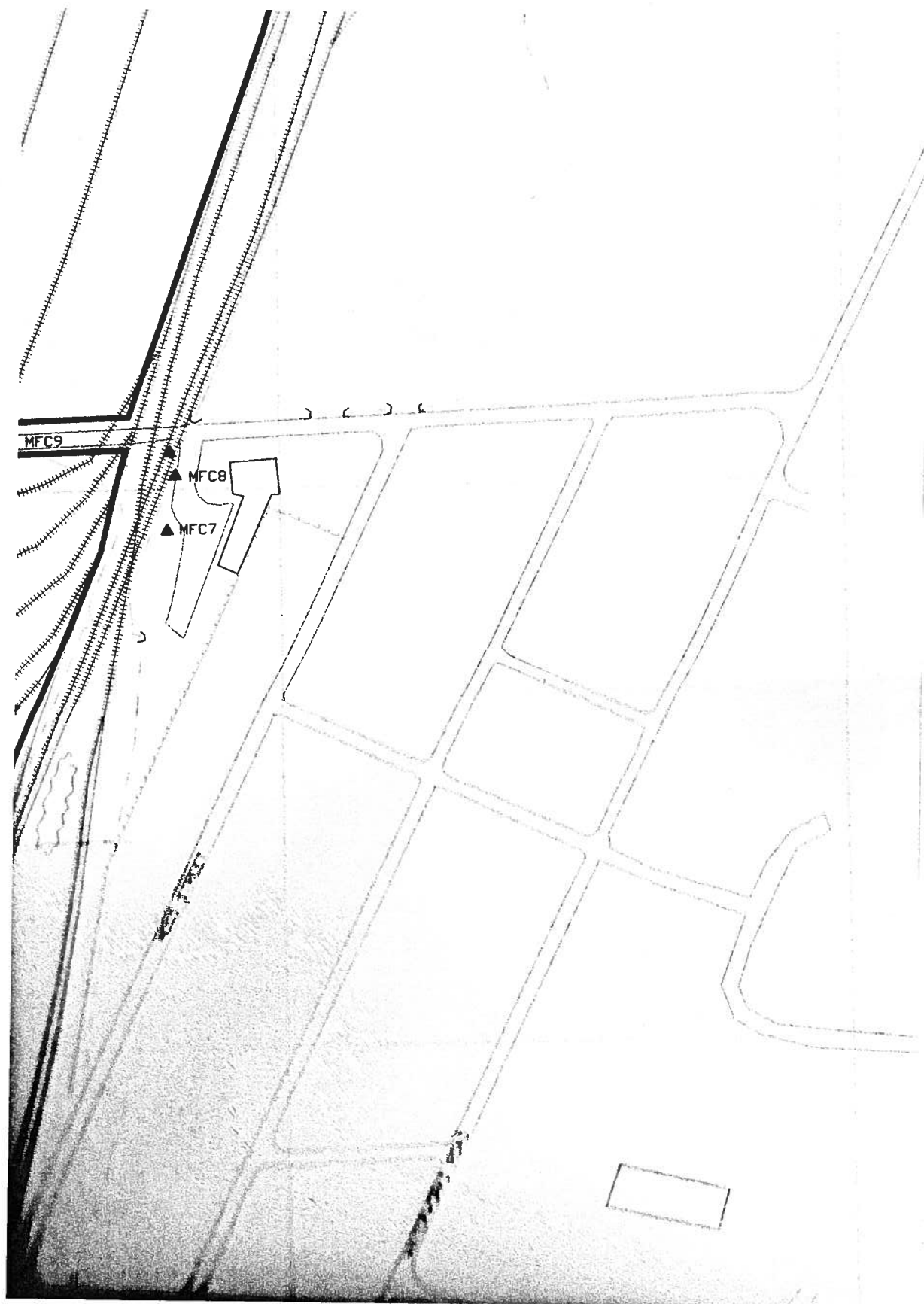
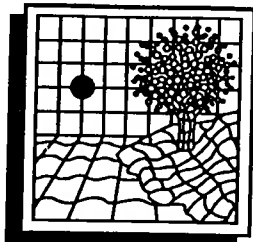








**SOUTHWEST LABORATORY
OF OKLAHOMA, INC.**

~~A. Book~~

File
Col
HW 99

August 12, 1999

Steve Ladner
KERR McGEE CHEMICAL CORPORATION
FOREST PRODUCTS DIVISION
123 Robert S. Kerr Avenue
Oklahoma City, OK 73102

Project: COLUMBUS, MS / SPECIAL
SWLO ID: 39270.01 – 39270.12

Dear Mr. Ladner:

Enclosed please find the standard tabular report, DMOL summary report, and the SEADATA electronic deliverable for your samples received in our laboratory on July 3, 1999. Preliminary results were faxed to your attention July 20, 1999.

Thank you for choosing Southwest Labs. If, in your review, you should have any questions or require additional information, please do not hesitate to call.

Sincerely,

Randy Staggs
Project Officer

Enclosures

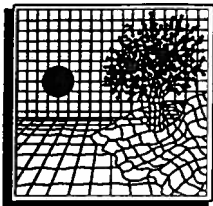
RES/slc

Cc: Facility Manager (Hardcopy & DMOL)
2300 14th Avenue
Columbus, MS 39701

These Data
are From
Stormwater
Ditch

KERR-MCGEE CORPORATION

FACILITY		NAME		SAMPLING FIRM		SAMPLE			
NAME		ADDRESS		NAME		ADDRESS			
KERR MCGEE CHEMICAL LLC - FPD		MS DEPT OF ENVIRONMENTAL QUALITY							
2300 14th Ave. N.									
Columbus, MS 39701									
NO.	LOCATION	DATE	TIME	WEATHER	SAMPLE TYPE AND METHOD	TIMES CASING CLEARED	NO. OF CONTAINERS	ANALYSIS REQUIRED	REMARKS
WFC1	DITCH - CORNER OF N 26th St & N. 7th Ave	7/1/99	7:30A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC2	INSIDE WALL OF CULVERT	7/1/99	7:15A		GRAB		1	SEMI-VOA (FOOI) TCL	WASTE SAMPLE
WFC3	DITCH WEST OF WATERWORK RD. ACROSS FROM MARGANATHA PARK CHURCH	7/1/99	9:05A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC4	DITCH @ INTERSECTION OF N. MOSS ST & N. MARVIN ST	7/1/99	9:50A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC5	DITCH ON 7th Ave N across FROM EZ SERVE GAS STATION	7/1/99	10:20A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC6	DITCH FROM OUTFALL 9 WHERE CROSSES UNDER BN-SF TRAIL	7/1/99	10:50A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC7	DITCH SOUTH OF 14th Ave N. Behind GRAHAM ROOFING	7/1/99	11:30A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC8	DITCH South of 14th Ave N Behind GRAHAM ROOFING	7/1/99	11:40A		GRAB		1	SEMI-VOA (FOOI) TCL	TAR SEDIMENT
WFC9	DITCH WEST OF CHG MAIN LINE - EAST SIDE OF KM	7/1/99	11:50A		GRAB		1	SEMI-VOA (FOOI)	Sediment Sample
WFC10	DITCH on 14th Ave N ACROSS FROM - N 23rd ST.	7/1/99	12:30P		GRAB		1	SEMI-VOA (FOOI)	Baseline Sediment
RELINQUISHED BY (SIGNATURE)		RECEIVED BY (SIGNATURE)		DATE		TIME		ADDITIONAL REMARKS	
[Signature]		[Signature]		7/2/99		12:18 PM		40	
RELINQUISHED BY (SIGNATURE)		RECEIVED BY (SIGNATURE)		DATE		TIME			
[Signature]		[Signature]							
RELINQUISHED BY (SIGNATURE)		RECEIVED BY (SIGNATURE)		DATE		TIME			
[Signature]		[Signature]							
DISPATCHED BY (SIGNATURE)		RECEIVED FOR LABORATORY (SIGNATURE)		DATE		TIME			
[Signature]		[Signature]		7-3-99		9:50			
CARRIER		LABORATORY		ADDRESS		ADDRESS			
FED-EX		[Signature]							
METHOD OF SHIPMENT		ALL ANALYSIS PERFORMED BY EPA APPROVED PROCEDURES		Yes		No, explain above			
VERNIGHT									



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.02
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02 SD1
SAMPLE #: MFC2 SD1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

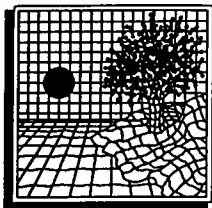
DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 1.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
PHENOL	48000	2,4-DINITROPHENOL	25000 U
BIS(2-CHLOROETHYL) ETHER	10000 U	4-NITROPHENOL	52000
2-CHLOROPHENOL	51000	DIBENZOFURAN	1200 J
1,3-DICHLOROBENZENE	10000 U	2,4-DINITROTOLUENE	29000
1,4-DICHLOROBENZENE	31000	2,6-DINITROTOLUENE	10000 U
BENZYL ALCOHOL	10000 U	DIETHYLPHTHALATE	10000 U
1,2-DICHLOROBENZENE	10000 U	4-CHLOROPHENYL-PHENYLETHER	10000 U
2-METHYLPHENOL	10000 U	FLUORENE	1600 J
BIS(2-CHLOROISOPROPYL) ETHER	10000 U	4-NITROANILINE	25000 U
4-METHYLPHENOL	10000 U	4,6-DINITRO-2-METHYLPHENOL	25000 U
N-NITROSO-DI-N-PROPYLAMINE	34000	N-NITROSODIPHENYLAMINE	10000 U
HEXACHLOROETHANE	10000 U	4-BROMOPHENYL-PHENYLETHER	10000 U
NITROBENZENE	10000 U	HEXACHLOROBENZENE	10000 U
ISOPHORONE	10000 U	PENTACHLOROPHENOL	63000
2-NITROPHENOL	10000 U	PHENANTHRENE	8900 J
2,4-DIMETHYLPHENOL	10000 U	ANTHRACENE	870 J
BENZOIC ACID	6200 J	DI-N-BUTYL PHTHALATE	10000 U
BIS(2-CHLOROETHOXY) METHANE	10000 U	FLUORANTHENE	35000
2,4-DICHLOROPHENOL	10000 U	PYRENE	49000
1,2,4-TRICHLOROBENZENE	34000	BUTYL BENZYL PHTHALATE	10000 U
NAPHTHALENE	1600 J	3,3'-DICHLOROBENZIDINE	10000 U
4-CHLOROANILINE	10000 U	BENZO(A) ANTHRACENE	10000 U
HEXACHLOROBUTADIENE	10000 U	BIS(2-ETHYLHEXYL) PHTHALATE	1100 JB
4-CHLORO-3-METHYLPHENOL	58000	CHRYSENE	8500 J
2-METHYLNAPHTHALENE	10000 U	DI-N-OCTYL PHTHALATE	10000 U
HEXACHLOROCYCLOPENTADIENE	10000 U	BENZO(B) FLUORANTHENE	10000 U
2,4,6-TRICHLOROPHENOL	10000 U	BENZO(K) FLUORANTHENE	10000 U
2,4,5-TRICHLOROPHENOL	25000 U	BENZO(A) PYRENE	3400 J



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.02
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02 SD1
SAMPLE #: MFC2 SD1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 1.0
LEVEL : M

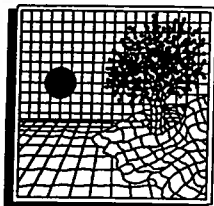
SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLORONAPHTHALENE	10000	U	INDENO (1,2,3-CD) PYRENE	10000	U
2-NITROANILINE	25000	U	DIBENZ (A,H) ANTHRACENE	10000	U
DIMETHYL PHTHALATE	10000	U	BENZO (G,H,I) PERYLENE	10000	U
ACENAPHTHYLENE	10000	U	CARBAZOLE	1100	J
3-NITROANILINE	25000	U	2,3,4,6-TETRACHLOROPHENOL	10000	U
ACENAPHTHENE	34000				

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	61	%	2-FLUOROPHENOL	(25-121)	60	%
2-FLUOROBIPHENYL	(30-115)	67	%	PHENOL-D5	(24-113)	64	%
TERPHENYL-D14	(18-137)	72	%	2,4,6-TRIBROMOPHENOL	(19-122)	68	%



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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.11
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.11 MS1
SAMPLE #: MFC10 MS1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 19.0
LEVEL : L

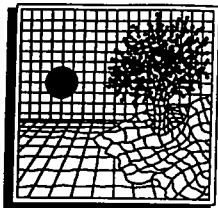
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	880	PENTACHLOROPHENOL	14000 E
PHENOL	1800	PHENANTHRENE	130000 E
2-CHLOROPHENOL	1700	FLUORANTHENE	86000 E
2,4-DIMETHYLPHENOL	410 U	BENZO (A) ANTHRACENE	22000 E
NAPHTHALENE	63000 E	BENZO (B) FLUORANTHENE	12000 E
4-CHLORO-3-METHYLPHENOL	1400	BENZO (A) PYRENE	7500 E
2,4,6-TRICHLOROPHENOL	410 U	INDENO (1,2,3-CD) PYRENE	3400 E
ACENAPHTHYLENE	4000 E	DIBENZ (A,H) ANTHRACENE	1900
2,4-DINITROPHENOL	1000 U	CARBAZOLE	40000 E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 120 %	2-FLUOROPHENOL	(25-121) 56 %
2-FLUOROBIPHENYL	(30-115) 65 %	PHENOL-D5	(24-113) 57 %
TERPHENYL-D14	(18-137) 78 %	2,4,6-TRIBROMOPHENOL	(19-122) 58 %



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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.12
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.12 SD1
SAMPLE #: MFC10 SD1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 19.0
LEVEL : L

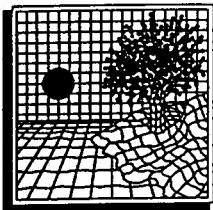
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	980	PENTACHLOROPHENOL	18000 E
PHENOL	2100	PHENANTHRENE	140000 E
2-CHLOROPHENOL	1900	FLUORANTHENE	90000 E
2,4-DIMETHYLPHENOL	410 U	BENZO (A) ANTHRACENE	24000 E
NAPHTHALENE	72000 E	BENZO (B) FLUORANTHENE	15000 E
4-CHLORO-3-METHYLPHENOL	1600	BENZO (A) PYRENE	7600 E
2,4,6-TRICHLOROPHENOL	410 U	INDENO (1,2,3-CD) PYRENE	3300 E
ACENAPHTHYLENE	3800 E	DIBENZ (A,H) ANTHRACENE	1600
2,4-DINITROPHENOL	1000 U	CARBAZOLE	40000 E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 136 % *	2-FLUOROPHENOL	(25-121) 65 %
2-FLUOROBIPHENYL	(30-115) 77 %	PHENOL-D5	(24-113) 66 %
TERPHENYL-D14	(18-137) 97 %	2,4,6-TRIBROMOPHENOL	(19-122) 69 %



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.04
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.04
SAMPLE #: MFC4
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 35.0
LEVEL : L

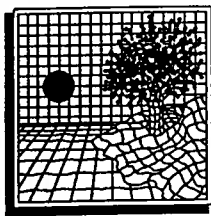
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	510 U	PENTACHLOROPHENOL	290 J
PHENOL	510 U	PHENANTHRENE	6100 E
2-CHLOROPHENOL	510 U	FLUORANTHENE	10000 E
2,4-DIMETHYLPHENOL	510 U	BENZO (A) ANTHRACENE	5600 E
NAPHTHALENE	820	BENZO (B) FLUORANTHENE	8400 E
4-CHLORO-3-METHYLPHENOL	510 U	BENZO (A) PYRENE	4100
2,4,6-TRICHLOROPHENOL	510 U	INDENO (1,2,3-CD) PYRENE	3100
ACENAPHTHYLENE	800	DIBENZ (A,H) ANTHRACENE	1300
2,4-DINITROPHENOL	1300 U	CARBAZOLE	6500 E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 67 %	2-FLUOROPHENOL	(25-121) 56 %
2-FLUOROBIPHENYL	(30-115) 64 %	PHENOL-D5	(24-113) 59 %
TERPHENYL-D14	(18-137) 69 %	2,4,6-TRIBROMOPHENOL	(19-122) 65 %



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.04
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.04
SAMPLE #: MFC4
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 5.00000
MATRIX : Soil
METHOD : SW846 8270C
Dilution Run

%MOISTURE: 35.0
LEVEL : L

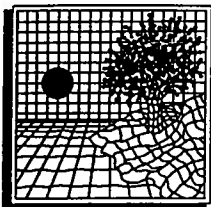
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2,3,4,6-TETRACHLOROPHENOL	2600	U	PENTACHLOROPHENOL	300	JD
PHENOL	2600	U	PHENANTHRENE	6600	D
2-CHLOROPHENOL	2600	U	FLUORANTHENE	16000	D
2,4-DIMETHYLPHENOL	2600	U	BENZO (A) ANTHRACENE	5600	D
NAPHTHALENE	780	JD	BENZO (B) FLUORANTHENE	7600	D
4-CHLORO-3-METHYLPHENOL	2600	U	BENZO (A) PYRENE	4200	D
2,4,6-TRICHLOROPHENOL	2600	U	INDENO (1,2,3-CD) PYRENE	3000	D
ACENAPHTHYLENE	850	JD	DIBENZ (A,H) ANTHRACENE	1200	JD
2,4-DINITROPHENOL	6400	U	CARBAZOLE	7900	D

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	48	%	2-FLUOROPHENOL	(25-121)	51	%
2-FLUOROBIPHENYL	(30-115)	57	%	PHENOL-D5	(24-113)	56	%
TERPHENYL-D14	(18-137)	57	%	2,4,6-TRIBROMOPHENOL	(19-122)	65	%



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.05
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.05
SAMPLE #: MFC5
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 20.0
LEVEL : L

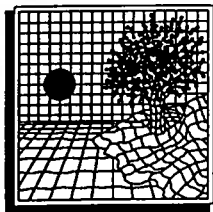
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2,3,4,6-TETRACHLOROPHENOL	420	U	PENTACHLOROPHENOL	23	J
PHENOL	720		PHENANTHRENE	780	
2-CHLOROPHENOL	420	U	FLUORANTHENE	3200	
2,4-DIMETHYLPHENOL	420	U	BENZO (A) ANTHRACENE	1400	
NAPHTHALENE	240	J	BENZO (B) FLUORANTHENE	170	J
4-CHLORO-3-METHYLPHENOL	420	U	BENZO (A) PYRENE	970	
2,4,6-TRICHLOROPHENOL	420	U	INDENO (1,2,3-CD) PYRENE	580	
ACENAPHTHYLENE	33	J	DIBENZ (A,H) ANTHRACENE	280	J
2,4-DINITROPHENOL	1000	U	CARBAZOLE	330	J

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	55	%	2-FLUOROPHENOL	(25-121)	46	%
2-FLUOROBIPHENYL	(30-115)	63	%	PHENOL-D5	(24-113)	56	%
TERPHENYL-D14	(18-137)	66	%	2,4,6-TRIBROMOPHENOL	(19-122)	69	%



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.06
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.06
SAMPLE #: MFC6
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 65.0
LEVEL : L

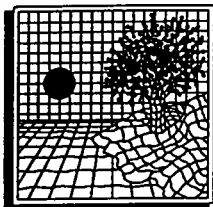
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2,3,4,6-TETRACHLOROPHENOL	9500	U	PENTACHLOROPHENOL	1100	J
PHENOL	9500	U	PHENANTHRENE	34000	
2-CHLOROPHENOL	9500	U	FLUORANTHENE	69000	
2,4-DIMETHYLPHENOL	9500	U	BENZO (A) ANTHRACENE	22000	
NAPHTHALENE	490	J	BENZO (B) FLUORANTHENE	38000	
4-CHLORO-3-METHYLPHENOL	9500	U	BENZO (A) PYRENE	19000	
2,4,6-TRICHLOROPHENOL	9500	U	INDENO (1,2,3-CD) PYRENE	16000	
ACENAPHTHYLENE	5200	J	DIBENZ (A,H) ANTHRACENE	5100	J
2,4-DINITROPHENOL	24000	U	CARBAZOLE	3900	J

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	63	%	2-FLUOROPHENOL	(25-121)	58	%
2-FLUOROBIPHENYL	(30-115)	72	%	PHENOL-D5	(24-113)	67	%
TERPHENYL-D14	(18-137)	75	%	2,4,6-TRIBROMOPHENOL	(19-122)	64	%



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.07
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.07
SAMPLE #: MFC7
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 13.0
LEVEL : L

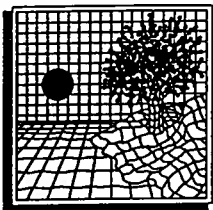
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	59 J	PENTACHLOROPHENOL	920 J
PHENOL	380 U	PHENANTHRENE	980
2-CHLOROPHENOL	380 U	FLUORANTHENE	4800 E
2,4-DIMETHYLPHENOL	20 J	BENZO (A) ANTHRACENE	3600 E
NAPHTHALENE	56 J	BENZO (B) FLUORANTHENE	7300 E
4-CHLORO-3-METHYLPHENOL	380 U	BENZO (A) PYRENE	4800 E
2,4,6-TRICHLOROPHENOL	380 U	INDENO (1,2,3-CD) PYRENE	3800 E
ACENAPHTHYLENE	2600	DIBENZ (A,H) ANTHRACENE	1800
2,4-DINITROPHENOL	950 U	CARBAZOLE	530

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 70 %	2-FLUOROPHENOL	(25-121) 65 %
2-FLUOROBIPHENYL	(30-115) 68 %	PHENOL-D5	(24-113) 66 %
TERPHENYL-D14	(18-137) 75 %	2,4,6-TRIBROMOPHENOL	(19-122) 70 %



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.07
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.07
SAMPLE #: MFC7
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

DILUTION: 5.00000
MATRIX : Soil
METHOD : SW846 8270C
Dilution Run

%MOISTURE: 13.0
LEVEL : L

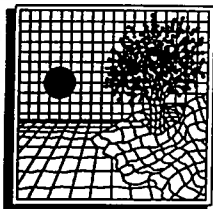
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2, 3, 4, 6-TETRACHLOROPHENOL	1900 U	PENTACHLOROPHENOL	850 JD
PHENOL	120 JD	PHENANTHRENE	1100 JD
2-CHLOROPHENOL	1900 U	FLUORANTHENE	6700 D
2, 4-DIMETHYLPHENOL	1900 U	BENZO (A) ANTHRACENE	3800 D
NAPHTHALENE	1900 U	BENZO (B) FLUORANTHENE	8300 D
4-CHLORO-3-METHYLPHENOL	1900 U	BENZO (A) PYRENE	6600 D
2, 4, 6-TRICHLOROPHENOL	1900 U	INDENO (1, 2, 3-CD) PYRENE	5700 D
ACENAPHTHYLENE	2200 D	DIBENZ (A, H) ANTHRACENE	2000 D
2, 4-DINITROPHENOL	4800 U	CARBAZOLE	490 JD

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 62 %	2-FLUOROPHENOL	(25-121) 62 %
2-FLUOROBIPHENYL	(30-115) 75 %	PHENOL-D5	(24-113) 69 %
TERPHENYL-D14	(18-137) 71 %	2, 4, 6-TRIBROMOPHENOL	(19-122) 72 %



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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.08
QAQC# : 990706SD
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.08
SAMPLE #: MFC8
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

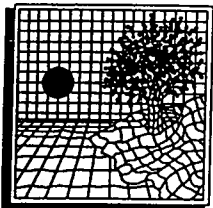
DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 12.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
PHENOL	11000 U	2,4-DINITROPHENOL	28000 U
BIS(2-CHLOROETHYL) ETHER	11000 U	4-NITROPHENOL	28000 U
2-CHLOROPHENOL	11000 U	DIBENZOFURAN	1700 J
1,3-DICHLOROBENZENE	11000 U	2,4-DINITROTOLUENE	11000 U
1,4-DICHLOROBENZENE	11000 U	2,6-DINITROTOLUENE	11000 U
BENZYL ALCOHOL	11000 U	DIETHYLPHTHALATE	11000 U
1,2-DICHLOROBENZENE	11000 U	4-CHLOROPHENYL-PHENYLETHER	11000 U
2-METHYLPHENOL	11000 U	FLUORENE	3500 J
BIS(2-CHLOROISOPROPYL) ETHER	11000 U	4-NITROANILINE	28000 U
4-METHYLPHENOL	580 J	4,6-DINITRO-2-METHYLPHENOL	28000 U
N-NITROSO-DI-N-PROPYLAMINE	11000 U	N-NITROSODIPHENYLAMINE	11000 U
HEXACHLOROETHANE	11000 U	4-BROMOPHENYL-PHENYLETHER	11000 U
NITROBENZENE	11000 U	HEXACHLOROENZENE	11000 U
ISOPHORONE	11000 U	PENTACHLOROPHENOL	28000 U
2-NITROPHENOL	11000 U	PHENANTHRENE	13000
2,4-DIMETHYLPHENOL	11000 U	ANTHRACENE	2900 J
BENZOIC ACID	28000 U	DI-N-BUTYL PHTHALATE	11000 U
BIS(2-CHLOROETHOXY) METHANE	11000 U	FLUORANTHENE	13000
2,4-DICHLOROPHENOL	11000 U	PYRENE	9500 J
1,2,4-TRICHLOROBENZENE	11000 U	BUTYL BENZYL PHTHALATE	11000 U
NAPHTHALENE	1300 J	3,3'-DICHLOROBENZIDINE	11000 U
4-CHLOROANILINE	11000 U	BENZO (A) ANTHRACENE	3800 J
HEXACHLOROBUTADIENE	11000 U	BIS(2-ETHYLHEXYL) PHTHALATE	11000 U
4-CHLORO-3-METHYLPHENOL	11000 U	CHRYSENE	7600 J
2-METHYLNAPHTHALENE	1300 J	DI-N-OCTYL PHTHALATE	11000 U
HEXACHLOROCYCLOPENTADIENE	11000 U	BENZO (B) FLUORANTHENE	11000 U
2,4,6-TRICHLOROPHENOL	11000 U	BENZO (K) FLUORANTHENE	11000 U
2,4,5-TRICHLOROPHENOL	28000 U	BENZO (A) PYRENE	4000 J



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.08
QAQC# : 990706SD
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.08
SAMPLE #: MFC8
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 12.0
LEVEL : M

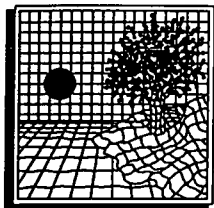
SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2-CHLORONAPHTHALENE	11000	U	INDENO (1, 2, 3-CD) PYRENE	11000	U
2-NITROANILINE	28000	U	DIBENZ (A, H) ANTHRACENE	11000	U
DIMETHYL PHTHALATE	11000	U	BENZO (G, H, I) PERYLENE	11000	U
ACENAPHTHYLENE	1000	J	CARBAZOLE	11000	U
3-NITROANILINE	28000	U	2, 3, 4, 6-TETRACHLOROPHENOL	11000	U
ACENAPHTHENE	2200	J			

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	50	%	2-FLUOROPHENOL	(25-121)	52	%
2-FLUOROBIPHENYL	(30-115)	59	%	PHENOL-D5	(24-113)	55	%
TERPHENYL-D14	(18-137)	60	%	2, 4, 6-TRIBROMOPHENOL	(19-122)	57	%



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FOREST PRODUCTS DIVISION
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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.09
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.09
SAMPLE #: MFC9
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 15.0
LEVEL : L

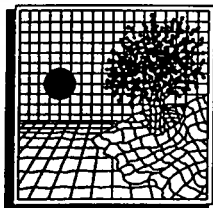
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	390 U	PENTACHLOROPHENOL	92 J
PHENOL	390 U	PHENANTHRENE	8300 E
2-CHLOROPHENOL	390 U	FLUORANTHENE	9400 E
2,4-DIMETHYLPHENOL	22 J	BENZO (A) ANTHRACENE	4000 E
NAPHTHALENE	33 J	BENZO (B) FLUORANTHENE	3800 E
4-CHLORO-3-METHYLPHENOL	390 U	BENZO (A) PYRENE	2300
2,4,6-TRICHLOROPHENOL	390 U	INDENO (1,2,3-CD) PYRENE	1200
ACENAPHTHYLENE	520	DIBENZ (A,H) ANTHRACENE	480
2,4-DINITROPHENOL	980 U	CARBAZOLE	230 J

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	68	%	2-FLUOROPHENOL	(25-121)	58	%
2-FLUOROBIPHENYL	(30-115)	61	%	PHENOL-D5	(24-113)	56	%
TERPHENYL-D14	(18-137)	58	%	2,4,6-TRIBROMOPHENOL	(19-122)	51	%



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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
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REPORT : 39270.09
QAQC# : 990706SA
INSTR SEQ: 437257-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.09
SAMPLE #: MFC9
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/19/99

DILUTION: 4.00000
MATRIX : Soil
METHOD : SW846 8270C
Dilution Run

%MOISTURE: 15.0
LEVEL : L

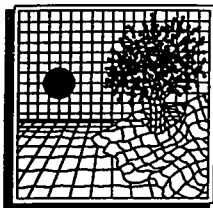
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2, 3, 4, 6-TETRACHLOROPHENOL	1600	U	PENTACHLOROPHENOL	3900	U
PHENOL	1600	U	PHENANTHRENE	9200	D
2-CHLOROPHENOL	1600	U	FLUORANTHENE	10000	D
2, 4-DIMETHYLPHENOL	1600	U	BENZO (A) ANTHRACENE	3400	D
NAPHTHALENE	1600	U	BENZO (B) FLUORANTHENE	2600	D
4-CHLORO-3-METHYLPHENOL	1600	U	BENZO (A) PYRENE	2300	D
2, 4, 6-TRICHLOROPHENOL	1600	U	INDENO (1, 2, 3-CD) PYRENE	1100	JD
ACENAPHTHYLENE	290	JD	DIBENZ (A, H) ANTHRACENE	460	JD
2, 4-DINITROPHENOL	3900	U	CARBAZOLE	150	JD

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	48	%	2-FLUOROPHENOL	(25-121)	45	%
2-FLUOROBIPHENYL	(30-115)	55	%	PHENOL-D5	(24-113)	49	%
TERPHENYL-D14	(18-137)	52	%	2, 4, 6-TRIBROMOPHENOL	(19-122)	33	%



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Attn: JIM CRAWFORD

REPORT : 39270.10
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.10
SAMPLE #: MFC10
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 19.0
LEVEL : L

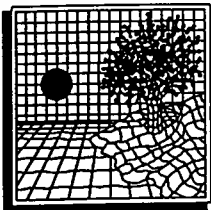
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	920	PENTACHLOROPHENOL	11000 E
PHENOL	410 U	PHENANTHRENE	140000 E
2-CHLOROPHENOL	410 U	FLUORANTHENE	85000 E
2,4-DIMETHYLPHENOL	410 U	BENZO (A) ANTHRACENE	25000 E
NAPHTHALENE	73000 E	BENZO (B) FLUORANTHENE	15000 E
4-CHLORO-3-METHYLPHENOL	410 U	BENZO (A) PYRENE	7600 E
2,4,6-TRICHLOROPHENOL	410 U	INDENO (1,2,3-CD) PYRENE	3300 E
ACENAPHTHYLENE	4300 E	DIBENZ (A,H) ANTHRACENE	2000
2,4-DINITROPHENOL	1000 U	CARBAZOLE	38000 E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 149 % *	2-FLUOROPHENOL	(25-121) 61 %
2-FLUOROBIPHENYL	(30-115) 79 %	PHENOL-D5	(24-113) 64 %
TERPHENYL-D14	(18-137) 98 %	2,4,6-TRIBROMOPHENOL	(19-122) 72 %



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.10
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.10
SAMPLE #: MFC10
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

DILUTION: 100.000
MATRIX : Soil
METHOD : SW846 8270C
Dilution Run

%MOISTURE: 19.0
LEVEL : L

SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2, 3, 4, 6-TETRACHLOROPHENOL	41000 U	PENTACHLOROPHENOL	8900 JD
PHENOL	41000 U	PHENANTHRENE	260000 D
2-CHLOROPHENOL	41000 U	FLUORANTHENE	170000 D
2, 4-DIMETHYLPHENOL	41000 U	BENZO (A) ANTHRACENE	28000 JD
NAPHTHALENE	150000 D	BENZO (B) FLUORANTHENE	14000 JD
4-CHLORO-3-METHYLPHENOL	41000 U	BENZO (A) PYRENE	12000 JD
2, 4, 6-TRICHLOROPHENOL	41000 U	INDENO (1, 2, 3-CD) PYRENE	4700 JD
ACENAPHTHYLENE	5300 JD	DIBENZ (A, H) ANTHRACENE	2100 JD
2, 4-DINITROPHENOL	100000 U	CARBAZOLE	26000 JD

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 0 % *	2-FLUOROPHENOL	(25-121) 98 %
2-FLUOROBIPHENYL	(30-115) 110 %	PHENOL-D5	(24-113) 79 %
TERPHENYL-D14	(18-137) 0 % *	2, 4, 6-TRIBROMOPHENOL	(19-122) 74 %

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Lab Number

Date: 08/12/99
Page: 1

Client: KERR MCGEE CHEMICAL CORP.

Project: SPECIAL

Matrix: SOIL	Sample Point-> Sample Date-> LAB#->	MFC1 07/01/99 39270.01	MFC3 07/01/99 39270.03	MFC3 07/01/99 39270.03	MFC4 07/01/99 39270.04	MFC4 07/01/99 39270.04	DL
Parameters	Units						
SEMIVOLATILES							
2,3,4,6-TETRACHLOROPHENOL	ug/Kg	45000 U	420 U	1700 U	510 U	2600 U	
PHENOL	ug/Kg	45000 U	420 U	1700 U	510 U	2600 U	
2-CHLOROPHENOL	ug/Kg	45000 U	420 U	1700 U	510 U	2600 U	
2,4-DIMETHYLPHENOL	ug/Kg	45000 U	420 U	1700 U	510 U	2600 U	
NAPHTHALENE	ug/Kg	1500	570	500 JD	820	780 JD	
4-CHLORO-3-METHYLPHENOL	ug/Kg	45000 U	420 U	1700 U	510 U	2600 U	
2,4,6-TRICHLOROPHENOL	ug/Kg	45000 U	420 U	1700 U	510 U	2600 U	
ACENAPHTHYLENE	ug/Kg	3500	440	400 JD	800	850 JD	
2,4-DINITROPHENOL	ug/Kg	1100 U	1000 U	4200 U	1300 U	6400 U	
PENTACHLOROPHENOL	ug/Kg	1100 U	200 J	190 JD	290 J	300 JD	
PHENANTHRENE	ug/Kg	80000 E	6400 E	7200 D	6100 E	6600 D	
FLUORANTHENE	ug/Kg	110000 E	7200 E	9200 D	10000 E	16000 D	
BENZO (A) ANTHRACENE	ug/Kg	82000 E	2600	2800 D	5600 E	5600 D	
BENZO (B) FLUORANTHENE	ug/Kg	23000 E	2800	2500 D	8400 E	7600 D	
BENZO (A) PYRENE	ug/Kg	15000 E	2100	1800 D	4100	4200 D	
INDENO (1,2,3-CD) PYRENE	ug/Kg	9200 E	1600	1300 JD	3100	3000 D	
DIBENZ (A,H) ANTHRACENE	ug/Kg	4300 E	600	470 JD	1300	1200 JD	
CARBAZOLE	ug/Kg	4000 E	340 J	270 JD	6500 E	7900 D	

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LMW1.0NNYNNN

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Lab Number

Date: 08/12/99
Page: 2

Client: KERR MCGEE CHEMICAL CORP. Project: SPECIAL

Matrix: SOIL	Sample Point-> Sample Date-> LAB#->	MFC5 07/01/99 39270.05	MFC6 07/01/99 39270.06	MFC7 07/01/99 39270.07	MFC7 07/01/99 39270.07	MFC9 07/01/99 39270.09	MFC9 07/01/99 39270.09	DL
Parameters	Units							
2,3,4,6-TETRACHLOROPHENOL	ug/Kg	420 U	9500 U	59 J	1900 U	390 U	1600 U	
PHENOL	ug/Kg	720	9500 U	380 U	120 JD	390 U	1600 U	
2-CHLOROPHENOL	ug/Kg	420 U	9500 U	380 U	1900 U	390 U	1600 U	
2,4-DIMETHYLPHENOL	ug/Kg	420 U	9500 U	20 J	1900 U	22 J	1600 U	
NAPHTHALENE	ug/Kg	240 J	490 J	56 J	1900 U	33 J	1600 U	
4-CHLORO-3-METHYLPHENOL	ug/Kg	420 U	9500 U	380 U	1900 U	390 U	1600 U	
2,4,6-TRICHLOROPHENOL	ug/Kg	420 U	9500 U	380 U	1900 U	390 U	1600 U	
ACENAPHTHYLENE	ug/Kg	33 J	5200 J	2600	2200 D	520	290 JD	
2,4-DINITROPHENOL	ug/Kg	1000 U	24000 U	950 U	4800 U	980 U	3900 U	
PENTACHLOROPHENOL	ug/Kg	23 J	1100 J	920 J	850 JD	92 J	3900 U	
PHENANTHRENE	ug/Kg	780	34000	980	1100 JD	8300 E	9200 D	
FLUORANTHENE	ug/Kg	3200	69000	4800 E	6700 D	9400 E	10000 D	
BENZO (A) ANTHRACENE	ug/Kg	1400	22000	3600 E	3800 D	4000 E	3400 D	
BENZO (B) FLUORANTHENE	ug/Kg	170 J	38000	7300 E	8300 D	3800 E	2600 D	
BENZO (A) PYRENE	ug/Kg	970	19000	4800 E	6600 D	2300	2300 D	
INDENO (1,2,3-CD) PYRENE	ug/Kg	580	16000	3800 E	5700 D	1200	1100 JD	
DIBENZ (A, H) ANTHRACENE	ug/Kg	280 J	5100 J	1800	2000 D	480	460 JD	
CARBAZOLE	ug/Kg	330 J	3900 J	530	490 JD	230 J	150 JD	

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LMW1.0NNYNNN

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Lab Number

Date: 08/12/99
Page: 3

Client: KERR MCGEE CHEMICAL CORP.

Project: SPECIAL

Matrix: SOIL	Sample Point-> Sample Date-> LAB#->	MFC10 07/01/99 39270.10	MFC10 07/01/99 39270.10	DL	MFC10 07/01/99 39270.11 MS1	MFC10 07/01/99 39270.12 SD1	
Parameters	Units						
2,3,4,6-TETRACHLOROPHENOL	ug/Kg	920	41000 U		880	980	
PHENOL	ug/Kg	410 U	41000 U		1800	2100	
2-CHLOROPHENOL	ug/Kg	410 U	41000 U		1700	1900	
2,4-DIMETHYLPHENOL	ug/Kg	410 U	41000 U		410 U	410 U	
NAPHTHALENE	ug/Kg	73000 E	150000 D		63000 E	72000 E	
4-CHLORO-3-METHYLPHENOL	ug/Kg	410 U	41000 U		1400	1600	
2,4,6-TRICHLOROPHENOL	ug/Kg	410 U	41000 U		410 U	410 U	
ACENAPHTHYLENE	ug/Kg	4300 E	5300 JD		4000 E	3800 E	
2,4-DINITROPHENOL	ug/Kg	1000 U	100000 U		1000 U	1000 U	
PENTACHLOROPHENOL	ug/Kg	11000 E	8900 JD		14000 E	18000 E	
PHENANTHRENE	ug/Kg	140000 E	260000 D		130000 E	140000 E	
FLUORANTHENE	ug/Kg	85000 E	170000 D		86000 E	90000 E	
BENZO (A) ANTHRACENE	ug/Kg	25000 E	28000 JD		22000 E	24000 E	
BENZO (B) FLUORANTHENE	ug/Kg	15000 E	14000 JD		12000 E	15000 E	
BENZO (A) PYRENE	ug/Kg	7600 E	12000 JD		7500 E	7600 E	
INDENO (1,2,3-CD) PYRENE	ug/Kg	3300 E	4700 JD		3400 E	3300 E	
DIBENZ (A,H) ANTHRACENE	ug/Kg	2000	2100 JD		1900	1600	
CARBAZOLE	ug/Kg	38000 E	26000 JD		40000 E	40000 E	

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LMW1.0NNYNNN

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Lab Number

Project: SPECIAL

Client: KERR MCGEE CHEMICAL CORP.

Matrix: SOIL	Sample Point-> Sample Date-> LAB#->	MFC2 07/01/99 39270.02	MFC2 07/01/99 39270.02 MS1	MFC2 07/01/99 39270.02 SD1	MFC8 07/01/99 39270.08
Parameters	Units				
SEMIVOLATILE ORGANIC COMPOUNDS					
PHENOL	ug/Kg	10000 U	37000	48000	11000 U
BIS (2-CHLOROETHYL) ETHER	ug/Kg	10000 U	10000 U	10000 U	11000 U
2-CHLOROPHENOL	ug/Kg	10000 U	38000	51000	11000 U
1,3-DICHLOROBENZENE	ug/Kg	10000 U	10000 U	10000 U	11000 U
1,4-DICHLOROBENZENE	ug/Kg	10000 U	24000	31000	11000 U
BENZYL ALCOHOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
1,2-DICHLOROBENZENE	ug/Kg	10000 U	10000 U	10000 U	11000 U
2-METHYLPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
BIS (2-CHLOROISOPROPYL) ETHER	ug/Kg	10000 U	10000 U	10000 U	580 J
4-METHYLPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
N-NITROSO-DI-N-PROPYLAMINE	ug/Kg	10000 U	10000 U	10000 U	11000 U
HEXACHLOROETHANE	ug/Kg	10000 U	10000 U	10000 U	11000 U
NITROBENZENE	ug/Kg	10000 U	10000 U	10000 U	11000 U
ISOPHORONE	ug/Kg	10000 U	10000 U	10000 U	11000 U
2-NITROPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
2,4-DIMETHYLPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
BENZOIC ACID	ug/Kg	5200 J	5900 J	6200 J	28000 U
BIS (2-CHLOROETHOXY) METHANE	ug/Kg	10000 U	10000 U	10000 U	11000 U
2,4-DICHLOROPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
1,2,4-TRICHLOROBENZENE	ug/Kg	10000 U	25000	34000	11000 U
NAPHTHALENE	ug/Kg	1800 J	2800 J	1600 J	1300 J
4-CHLOROANILINE	ug/Kg	10000 U	10000 U	10000 U	11000 U
HEXACHLOROBUTADIENE	ug/Kg	10000 U	10000 U	10000 U	11000 U
4-CHLORO-3-METHYLPHENOL	ug/Kg	10000 U	43000	58000	11000 U
2-METHYLNAPHTHALENE	ug/Kg	740 J	10000 U	10000 U	1300 J
HEXACHLOROCYCLOPENTADIENE	ug/Kg	10000 U	10000 U	10000 U	11000 U
2,4,6-TRICHLOROPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U
2,4,5-TRICHLOROPHENOL	ug/Kg	25000 U	25000 U	25000 U	28000 U
2-CHLORONAPHTHALENE	ug/Kg	10000 U	10000 U	10000 U	11000 U
2-NITROANILINE	ug/Kg	25000 U	25000 U	25000 U	28000 U
DIMETHYL PHTHALATE	ug/Kg	10000 U	10000 U	10000 U	11000 U
ACENAPHTHYLENE	ug/Kg	10000 U	900 J	10000 U	1000 J
3-NITROANILINE	ug/Kg	25000 U	25000 U	25000 U	28000 U
ACENAPHTHENE	ug/Kg	1300 J	29000	34000	2200 J
2,4-DINITROPHENOL	ug/Kg	25000 U	25000 U	25000 U	28000 U
4-NITROPHENOL	ug/Kg	25000 U	41000	52000	28000 U

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LMW1.0NNYNNN

Southwest Laboratory of Oklahoma, Inc.
Data Summary Report
By Lab Number

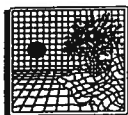
Date: 08/12/99
Page: 2

Project: SPECIAL

Client: KERR MCGEE CHEMICAL CORP.

Matrix: SOIL	Sample Point-> Sample Date-> Lab#->	MFC2 07/01/99 39270.02	MFC2 07/01/99 39270.02 MS1	MFC2 07/01/99 39270.02 SD1	MFC8 07/01/99 39270.08	
Parameters	Units					
DIBENZOFURAN	ug/Kg	1300 J	2100 J	1200 J	1700 J	
2,4-DINITROTOLUENE	ug/Kg	10000 U	23000	29000	11000 U	
2,6-DINITROTOLUENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
DIETHYLPHTHALATE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
4-CHLOROPHENYL-PHENYLETHER	ug/Kg	10000 U	10000 U	10000 U	11000 U	
FLUORENE	ug/Kg	1400 J	2500 J	1600 J	3500 J	
4-NITROANILINE	ug/Kg	25000 U	25000 U	25000 U	28000 U	
4,6-DINITRO-2-METHYLPHENOL	ug/Kg	25000 U	25000 U	25000 U	28000 U	
N-NITROSODIPHENYLAMINE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
4-BROMOPHENYL-PHENYLETHER	ug/Kg	10000 U	10000 U	10000 U	11000 U	
HEXACHLOROBENZENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
PENTACHLOROPHENOL	ug/Kg	1300 J	47000	63000	28000 U	
PHENANTHRENE	ug/Kg	7000 J	8500 J	8900 J	13000	
ANTHRACENE	ug/Kg	610 J	1600 J	870 J	2900 J	
DI-N-BUTYL PHTHALATE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
FLUORANTHENE	ug/Kg	28000	25000	35000	13000	
PYRENE	ug/Kg	13000	40000	49000	9500 J	
BUTYL BENZYL PHTHALATE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
3,3'-DICHLOROBENZIDINE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
BENZO (A) ANTHRACENE	ug/Kg	10000 U	10000 U	10000 U	3800 J	
BIS (2-ETHYLHEXYL) PHTHALATE	ug/Kg	920 JB	1200 JB	1100 JB	11000 U	
CHRYSENE	ug/Kg	6900 J	7200 J	8500 J	7600 J	
DI-N-OCTYL PHTHALATE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
BENZO (B) FLUORANTHENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
BENZO (K) FLUORANTHENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
BENZO (A) PYRENE	ug/Kg	3200 J	10000 U	3400 J	4000 J	
INDENO (1,2,3-CD) PYRENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
DIBENZ (A, H) ANTHRACENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
BENZO (G, H, I) PERYLENE	ug/Kg	10000 U	10000 U	10000 U	11000 U	
CARBAZOLE	ug/Kg	810 J	1200 J	1100 J	11000 U	
2,3,4,6-TETRACHLOROPHENOL	ug/Kg	10000 U	10000 U	10000 U	11000 U	

U: ANALYZED BUT NOT DETECTED
See enclosure for additional qualifiers
LWW1.ONNNYNNN



COOLER RECEIPT / SAMPLE LOG-IN SHEET

COOLER RECEIPT / SAMPLE LOG-IN SHEET (115-ATT2.WB1) / SWL-GA-115 REV 5.0 / GA-115-CRLOGIN-F

LAB NAME: SOUTHWEST LABORATORY OF OKLAHOMA

PAGE 1 OF 1

RECEIVED BY (PRINT NAME): DON WILLIS

REC'D DATE 07/03/99

RECEIVED BY (SIGNATURE): *Don Willis*

TIME REC'D 09:50

LOGGED IN BY (SIGNATURE): *E. Maniboung*

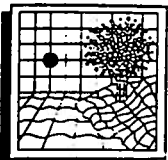
LOG-IN DATE 1999-07-03 12:30

PROJECT: SPECIAL	Client Sample #	Sample Fraction @	Assigned LAB#	Cooler I.D.	pH Check	ACID/BASE LOT#	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EPISODE: 39270							
SAMPLE DELIVERY GROUP: 39270							
Remarks	MFC1	B	39270.01	07/03/99-1	N		4.0 C
1. CUSTODY SEAL(S): <u>Present/Absent</u> <u>Intact/ Broken</u>	MFC2		39270.02		N		
2. CUSTODY SEALS NOS.: NA	MFC3		39270.03		N		
	MFC4		39270.04		N		
	MFC5		39270.05		N		
3. CHAIN-OF CUSTODY. <u>Present/Absent</u>	MFC6		39270.06		N		
Sealed In Plastic? <u>Yes/ No</u>	MFC7		39270.07		N		
Taped To Lid? <u>Yes/ No</u>	MFC8		39270.08		N		
Property Filled Out (Ink, Signed, ETC.)? <u>Yes/ No</u>	MFC9		39270.09		N		
4. AIRBILL <u>AirBill/ Sticker</u>	MFC10		39270.10		N		
<u>Present/Absent</u>	MFC10	MS	39270.11		N		
5. AIRBILL NO: 808216694052	MFC10	MSD	39270.12		N		
6. COOLER CONDITIONS							
Enough Ice? <u>Yes/ No</u>							
Type of Ice? <u>Wet</u>							
Type of Packing? <u>Bub</u>							
7. SAMPLE TAGS <u>Present/Absent</u>							
8. SAMPLE CONDITION: <u>Intact/ Broken*/</u>							
<u>Leaking</u>							
Bottles Sealed In Separate Plastic Bags? <u>Yes/ No</u>							
Correct Containers Used For Tests Indicated? <u>Yes/ No</u>							
Correct Preservative? <u>Yes/ No</u>							
Sufficient Sample? <u>Yes/ No</u>							
Labels Complete (I.D., Date, Time, Signature, Preservative)? <u>Yes/ No</u>							
VOA Samples Without Bubbles? <u>Yes/ No</u>							
9. Does Information on Custody Records, Labels, Tags Agree? <u>Yes/ No*</u>							
10. RAD SCREEN WITH GIEGER COUNTER? <u>Yes/ No</u>							
11. P.O. Called? <u>Yes/ No</u>							

* Contact PO and attach record of resolution

@ Sample Fractions: B=SV GC/MS, V=VOA GC/MS or GC, P=Pesticide, H=Herbicide, D=Dioxin, A=Air, I=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

~ Note samples with bubbles under remarks section.



SWLO Qualifier Flags

GENERAL
ADMINISTRATIVE

METHODOLOGY

- SM = Standard Methods, 18th Edition, 1992
EPA = #EPA600 / 4-79-020, March 1985
SW = EPA Methodology, "#SW846", Final Update III, June, 1997

GENERAL QUALIFIER FLAGS

- B = Analyte is detected in blank as well as sample
J = Estimated value: concentration is below limit of quantitation
T = Trace amount
U = Not detected
> = Concentration greater than value reported
E = Compound exceeds calibration range
D = Sample dilution run or surrogates diluted out
Sample run at secondary dilution
I = Not quantifiable due to matrix interference
* = Surrogate outside of QC limits on both original and re-analysis
P = Pesticide Aroclor Flag used when >25% difference between two GC columns. The lower of the two values is reported.

TPH 8015

- 1 = Analysis shows miscellaneous peaks, which cannot be identified as any specific pattern. Response factor for nearest eluting hydrocarbon standard was used to calculate concentration.
2 = Pattern is similar to, but not identical to standard.
3 = May be a weathered gasoline.

APPENDIX IX SEMIVOLATILES

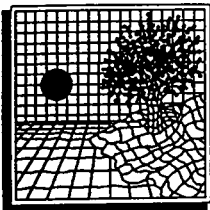
- 1 = Detected as Diphenylamine
2 = Coelute on GC Column

TCLP SEMIVOLATILES

- 1 = 1-methyl phenol
2 = Compounds Co-elute (3 & 4-methylphenol)
3 = Combination of O, M, & P Cresols

DIOXINS

- X = EMPC (Estimated Maximum Possible Concentration)
I * = EMPC – ether interference



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.01

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.01
SAMPLE #: MFC1
LOCATION:

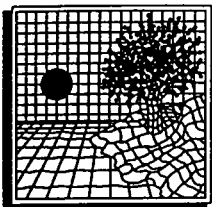
SAMPLED : 07/01/99
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 26.5

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	26.5	%		07/06/99	



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.02

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02
SAMPLE #: MFC2
LOCATION:

SAMPLED : 07/01/99

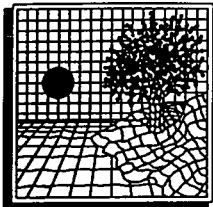
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 1.2

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	1.2	%		07/06/99	



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.03

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.03
SAMPLE #: MFC3
LOCATION:

SAMPLED : 07/01/99

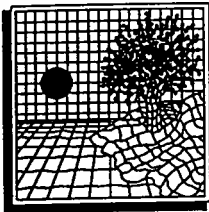
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 20.8

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	20.8	%		07/06/99	



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.04

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.04
SAMPLE #: MFC4
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 35.3

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	35.3	%		07/06/99	

SOUTHWEST LABORATORY OF OKLAHOMA
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

July 24, 1999

CONTRACT: KMFP-COL

PROJECT: SPECIAL

SDG NO: 39270

SEMIVOLATILE FRACTION

Ten soils and one set of MS/MSD samples were submitted for Semivolatile Organic analyses. The samples were analyzed by GC/MS following SW846-8270C for a short list of compounds.

SWLO uses a 2uL injection for method SW846-8270C as allowed by the method and has added two extra "advisory surrogates (one acid and one base/neutral)" to the surrogate spiking mix. These surrogates are 1,2-dichlorobenzene-d4 and 2-chlorophenol-d4 and have advisory control limits. The surrogates, laboratory control spikes and matrix spikes are spiked at 75 ug/L (waters) and 2500ug/Kg (soils) for the acid surrogates and 50 ug/L (waters) and 1700 (actual 1667) ug/Kg (soils) for base/neutral surrogates. The instrument calibration range is from 10 ug/L to 80 ug/L for waters and 330 ug/Kg to 2700 ug/Kg for soils, which relates to 20 ng on column (low cal. std.) up to 160 ng on column (high cal. std.).

No major problems occurred during the analyses of these samples. The majority of these samples had dilutions analyzed to get target compounds within instruments linear range.

Blanks: No target compounds were detected in the extraction blank.

Surrogates: Sample MFC1 had high surrogate recovery for terphenyl-d14. Samples MFC10, MFC10MS and MFC10MSD had high surrogate recovery for nitrobenzene-d5.

Matrix Spikes: Several matrix spike compound were outside of QC limits (high) due to the extremely high level of target analyte found in sample compared to amount spiked. MGC10MS had low spike recovery for 1,4-dichlorobenzene at 50%.

Laboratory Control Spikes: All laboratory control spikes were within QC limits.

Internal Standards: The following samples had internal standard areas outside of QC limits: MFC9DL, MFC1, MFC10, MFC10MS and MFC10MSD.

Harry M. Borg
Harry M. Borg

Organic Program Manager

July 24, 1999

SOUTHWEST LABORATORY OF OKLAHOMA
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

July 24, 1999

CONTRACT: KMFP-COL

PROJECT: SPECIAL

SDG NO: 39270

SEMIVOLATILE FRACTION

Two soil samples were submitted for Semivolatile Organic analyses. The samples were analyzed by GC/MS following SW846-8270C for a short list of compounds.

SWLO uses a 2uL injection for method SW846-8270C as allowed by the method and has added two extra "advisory surrogates (one acid and one base/neutral)" to the surrogate spiking mix. These surrogates are 1,2-dichlorobenzene-d4 and 2-chlorophenol-d4 and have advisory control limits. The surrogates, laboratory control spikes and matrix spikes are spiked at 75 ug/L (waters) and 2500ug/Kg (soils) for the acid surrogates and 50 ug/L (waters) and 1700 (actual 1667) ug/Kg (soils) for base/neutral surrogates. The instrument calibration range is from 10 ug/L to 80 ug/L for waters and 330 ug/Kg to 2700 ug/Kg for soils, which relates to 20 ng on column (low cal. std.) up to 160 ng on column (high cal. std.).

No major problems occurred during the analyses of these samples. These two samples were analyzed as medium level extracts due to the high level of extractable organics found in sample.

Blanks: Extraction blanks (BL0706SD & BL0706SF) had low level phthalate contamination below reporting limit.

Surrogates: All surrogates were within QC limits.

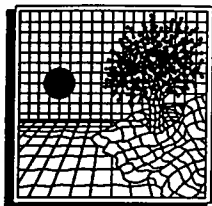
Matrix Spikes: All matrix spikes were within QC limits.

Laboratory Control Spikes: All laboratory control spikes were within QC limits.

Internal Standards: Samples MFC2 and MFC2MSD had internal standard areas outside of QC limits (low).


Harry M. Borg
Organic Program Manager

July 24, 1999



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : BL0706SA LB1
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
SAMPLE #: BL0706SA LB1
LOCATION: LAB QC

PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 1.00000
MATRIX : S
METHOD : SW846 8270C

%MOISTURE: 0.0
LEVEL : L

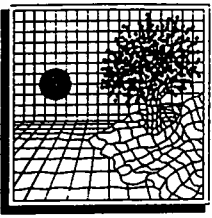
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	330 U	PENTACHLOROPHENOL	830 U
PHENOL	330 U	PHENANTHRENE	330 U
2-CHLOROPHENOL	330 U	FLUORANTHENE	330 U
2,4-DIMETHYLPHENOL	330 U	BENZO(A)ANTHRACENE	330 U
NAPHTHALENE	330 U	BENZO(B)FLUORANTHENE	330 U
4-CHLORO-3-METHYLPHENOL	330 U	BENZO(A)PYRENE	330 U
2,4,6-TRICHLOROPHENOL	330 U	INDENO(1,2,3-CD)PYRENE	330 U
ACENAPHTHYLENE	330 U	DIBENZ(A,H)ANTHRACENE	330 U
2,4-DINITROPHENOL	830 U	CARBAZOLE	330 U

QA/QC SURROGATE RECOVERIES

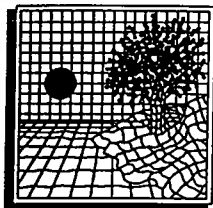
NITROBENZENE-D5	(23-120)	69	%	2-FLUOROPHENOL	(25-121)	54	%
2-FLUOROBIPHENYL	(30-115)	64	%	PHENOL-D5	(24-113)	62	%
TERPHENYL-D14	(18-137)	69	%	2,4,6-TRIBROMOPHENOL	(19-122)	41	%



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

Quality Control Section



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.10

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.10
SAMPLE #: MFC10
LOCATION:

SAMPLED : 07/01/99

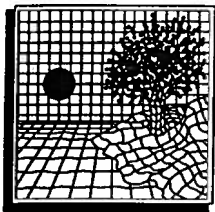
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 18.6

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	18.6	%		07/06/99	



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.09

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.09
SAMPLE #: MFC9
LOCATION:

SAMPLED : 07/01/99

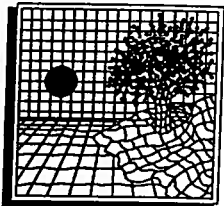
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 14.8

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	14.8	%		07/06/99	



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.08

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.08
SAMPLE #: MFC8
LOCATION:

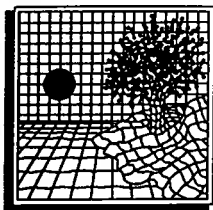
SAMPLED : 07/01/99
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 11.7

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	11.7	%		07/06/99	



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.07

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.07
SAMPLE #: MFC7
LOCATION:

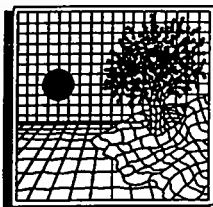
SAMPLED : 07/01/99
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 13.3

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	13.3	%		07/06/99	



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.06

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.06
SAMPLE #: MFC6
LOCATION:

SAMPLED : 07/01/99

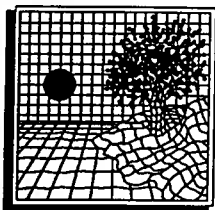
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 65.0

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	65.0	%		07/06/99	



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.05

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.05
SAMPLE #: MFC5
LOCATION:

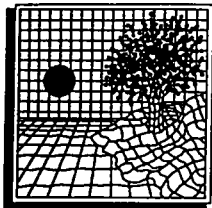
SAMPLED : 07/01/99
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 20.6

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	20.6	%		07/06/99	



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.12

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.12 SD1
SAMPLE #: MFC10 SD1
LOCATION:

SAMPLED : 07/01/99

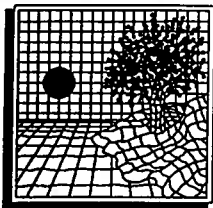
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 18.6

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	18.6	%		07/06/99	



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.11

REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.11 MS1
SAMPLE #: MFC10 MS1
LOCATION:

SAMPLED : 07/01/99

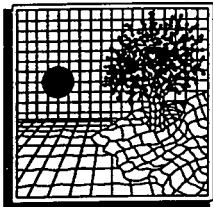
SUBMITTED: 07/03/99

MATRIX : Soil

%MOISTURE: 18.6

MISCELLANEOUS

PARAMETER	RESULTS	UNITS	DATE PREPARED	DATE ANALYZED	REFERENCE METHOD
% MOISTURE	18.6	%		07/06/99	



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORTED : 08/11/99

PROJECT : SPECIAL

MATRIX : S

PREPARED 07/06/99

LAB ID	QC BATCH	ANALYZED
LC0706SA	990706SA	07/17/99 11:43
LD0706SA	990706SA	07/16/99 19:48

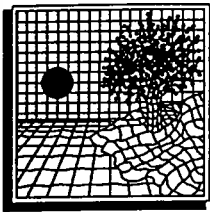
SEMIVOLATILES

LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

Parameter	(ug/Kg)	SPIKED AMOUNT	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
PHENOL		2500	1400	54	1600	62	14	14	37- 95
2-CHLOROPHENOL		2500	1300	51	1600	65	24 *	14	44- 96
1,4-DICHLOROBENZENE		1700	1000	60	1100	66	10	12	54- 90
N-NITROSO-DI-N-PROPYLAMIN		1700	1000	61	1200	71	16 *	9	44-110
1,2,4-TRICHLOROBENZENE		1700	1000	62	1200	68	10	13	50- 98
4-CHLORO-3-METHYLPHENOL		2500	1400	54	1600	64	18 *	15	40-101
ACENAPHTHENE		1700	1000	58	1000	62	6	16	49- 99
4-NITROPHENOL		2500	1600	63	1700	68	7	17	36-115
2,4-DINITROTOLUENE		1700	1000	61	1100	67	9	14	45- 96
PENTACHLOROPHENOL		2500	1500	62	1600	65	4	14	34-117
PYRENE		1700	830	49	990	58	17	19	37- 95

QA/QC SURROGATE RECOVERIES

Parameter	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	59	64	23-120
2-FLUOROPHENOL	48	57	25-121
2-FLUOROBIPHENYL	56	66	30-115
PHENOL-D5	56	66	24-113
TERPHENYL-D14	53	67	18-137
2,4,6-TRIBROMOPHENOL	32	64	19-122



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : BL0706SD LB1
QAQC# : 990706SD
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
SAMPLE #: BL0706SD
LOCATION: LAB QC

LB1

PREPARED : 07/06/99
ANALYZED : 07/16/99

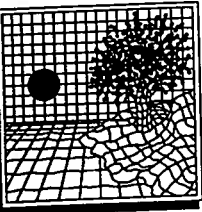
DILUTION: 1.00000
MATRIX : S
METHOD : SW846 8270C

%MOISTURE: 0.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
PHENOL	10000 U	2,4-DINITROPHENOL	25000 U
BIS(2-CHLOROETHYL) ETHER	10000 U	4-NITROPHENOL	25000 U
2-CHLOROPHENOL	10000 U	DIBENZOFURAN	10000 U
1,3-DICHLOROBENZENE	10000 U	2,4-DINITROTOLUENE	10000 U
1,4-DICHLOROBENZENE	10000 U	2,6-DINITROTOLUENE	10000 U
BENZYL ALCOHOL	10000 U	DIETHYLPHTHALATE	10000 U
1,2-DICHLOROBENZENE	10000 U	4-CHLOROPHENYL-PHENYLEETHER	10000 U
2-METHYLPHENOL	10000 U	FLUORENE	10000 U
BIS(2-CHLOROISOPROPYL) ETHER	10000 U	4-NITROANILINE	25000 U
4-METHYLPHENOL	10000 U	4,6-DINITRO-2-METHYLPHENOL	25000 U
N-NITROSO-DI-N-PROPYLAMINE	10000 U	N-NITROSODIPHENYLAMINE	10000 U
HEXACHLOROETHANE	10000 U	4-BROMOPHENYL-PHENYLEETHER	10000 U
NITROBENZENE	10000 U	HEXACHLOROBENZENE	10000 U
ISOPHORONE	10000 U	PENTACHLOROPHENOL	25000 U
2-NITROPHENOL	10000 U	PHENANTHRENE	10000 U
2,4-DIMETHYLPHENOL	10000 U	ANTHRACENE	10000 U
BENZOIC ACID	25000 U	DI-N-BUTYL PHTHALATE	10000 U
BIS(2-CHLOROETHOXY) METHANE	10000 U	FLUORANTHENE	10000 U
2,4-DICHLOROPHENOL	10000 U	PYRENE	10000 U
1,2,4-TRICHLOROBENZENE	10000 U	BUTYL BENZYL PHTHALATE	10000 U
NAPHTHALENE	10000 U	3,3'-DICHLOROBENZIDINE	10000 U
4-CHLOROANILINE	10000 U	BENZO(A) ANTHRACENE	10000 U
HEXACHLOROBUTADIENE	10000 U	BIS(2-ETHYLHEXYL) PHTHALATE	1300 J
4-CHLORO-3-METHYLPHENOL	10000 U	CHRYSENE	10000 U
2-METHYLNAPHTHALENE	10000 U	DI-N-OCTYL PHTHALATE	10000 U
HEXACHLOROCYCLOPENTADIENE	10000 U	BENZO(B) FLUORANTHENE	10000 U
2,4,6-TRICHLOROPHENOL	10000 U	BENZO(K) FLUORANTHENE	10000 U
2,4,5-TRICHLOROPHENOL	25000 U	BENZO(A) PYRENE	10000 U



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : BL0706SD
QAQC# : 990706SD
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

LB1

PROJECT : SPECIAL
SAMPLE #: BL0706SD
LOCATION: LAB QC

LB1

PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 1.00000
MATRIX : S
METHOD : SW846 8270C

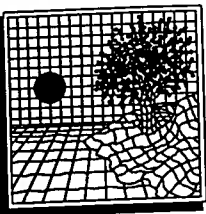
%MOISTURE: 0.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2-CHLORONAPHTHALENE	10000 U	INDENO (1, 2, 3-CD) PYRENE	10000 U
2-NITROANILINE	25000 U	DIBENZ (A, H) ANTHRACENE	10000 U
DIMETHYL PHTHALATE	10000 U	BENZO (G, H, I) PERYLENE	10000 U
ACENAPHTHYLENE	10000 U	CARBAZOLE	10000 U
3-NITROANILINE	25000 U	2, 3, 4, 6-TETRACHLOROPHENOL	10000 U
ACENAPHTHENE	10000 U		

	QA/QC	SURROGATE	RECOVERIES		
NITROBENZENE-D5	(23-120)	57	%	2-FLUOROPHENOL	(25-121) 61 %
2-FLUOROBIPHENYL	(30-115)	57	%	PHENOL-D5	(24-113) 61 %
TERPHENYL-D14	(18-137)	70	%	2, 4, 6-TRIBROMOPHENOL	(19-122) 72 %



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORTED : 08/11/99

PROJECT : SPECIAL

MATRIX : S

PREPARED 07/06/99

LAB ID	QC BATCH
LC0706SD	990706SD
LD0706SD	990706SD

ANALYZED
07/16/99 16:56
07/17/99 10:03

SEMIVOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

Parameter	(ug/Kg)	SPIKED AMOUNT	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	LIMITS	
								MAX RPD	%Rec.
PHENOL	75000	42000	57	47000	63	11	14	37-	95
2-CHLOROPHENOL	75000	46000	62	48000	64	3	14	44-	96
1,4-DICHLOROBENZENE	50000	31000	62	33000	66	5	12	54-	90
N-NITROSO-DI-N-PROPYLAMIN	50000	31000	63	33000	66	6	9	44-	110
1,2,4-TRICHLOROBENZENE	50000	32000	65	32000	63	2	13	50-	98
4-CHLORO-3-METHYLPHENOL	75000	51000	68	49000	65	5	15	40-	101
ACENAPHTHENE	50000	32000	63	33000	66	5	16	49-	99
4-NITROPHENOL	75000	41000	54	47000	63	14	17	36-	115
2,4-DINITROTOLUENE	50000	31000	63	32000	65	4	14	45-	96
PENTACHLOROPHENOL	75000	48000	64	53000	70	9	14	34-	117
PYRENE	50000	31000	62	38000	75	18	19	37-	95

QA/QC SURROGATE RECOVERIES

Parameter	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	60	59	23-120
2-FLUOROPHENOL	57	57	25-121
2-FLUOROBIPHENYL	63	64	30-115
PHENOL-D5	58	62	24-113
TERPHENYL-D14	66	79	18-137
2,4,6-TRIBROMOPHENOL	65	62	19-122

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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : BL0706SF
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

LB1

PROJECT : SPECIAL
SAMPLE #: BL0706SF
LOCATION: LAB QC

LB1

PREPARED : 07/06/99
ANALYZED : 07/16/99

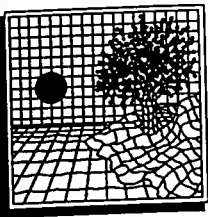
DILUTION: 1.00000
MATRIX : S
METHOD : SW846 8270C

%MOISTURE: 0.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
PHENOL	10000 U	2,4-DINITROPHENOL	25000 U
BIS(2-CHLOROETHYL) ETHER	10000 U	4-NITROPHENOL	25000 U
2-CHLOROPHENOL	10000 U	DIBENZOFURAN	10000 U
1,3-DICHLOROBENZENE	10000 U	2,4-DINITROTOLUENE	10000 U
1,4-DICHLOROBENZENE	10000 U	2,6-DINITROTOLUENE	10000 U
BENZYL ALCOHOL	10000 U	DIETHYLPHTHALATE	10000 U
1,2-DICHLOROBENZENE	10000 U	4-CHLOROPHENYL-PHENYLETHER	10000 U
2-METHYLPHENOL	10000 U	FLUORENE	10000 U
BIS(2-CHLOROISOPROPYL) ETHER	10000 U	4-NITROANILINE	25000 U
4-METHYLPHENOL	10000 U	4,6-DINITRO-2-METHYLPHENOL	25000 U
N-NITROSO-DI-N-PROPYLAMINE	10000 U	N-NITROSODIPHENYLAMINE	10000 U
HEXACHLOROETHANE	10000 U	4-BROMOPHENYL-PHENYLETHER	10000 U
NITROBENZENE	10000 U	HEXACHLOROBENZENE	10000 U
ISOPHORONE	10000 U	PENTACHLOROPHENOL	25000 U
2-NITROPHENOL	10000 U	PHENANTHRENE	10000 U
2,4-DIMETHYLPHENOL	10000 U	ANTHRACENE	10000 U
BENZOIC ACID	25000 U	DI-N-BUTYL PHTHALATE	10000 U
BIS(2-CHLOROETHOXY) METHANE	10000 U	FLUORANTHENE	10000 U
2,4-DICHLOROPHENOL	10000 U	PYRENE	10000 U
1,2,4-TRICHLOROBENZENE	10000 U	BUTYL BENZYL PHTHALATE	10000 U
NAPHTHALENE	10000 U	3,3'-DICHLOROBENZIDINE	10000 U
4-CHLOROANILINE	10000 U	BENZO (A) ANTHRACENE	10000 U
HEXACHLOROBUTADIENE	10000 U	BIS (2-ETHYLHEXYL) PHTHALATE	540 J
4-CHLORO-3-METHYLPHENOL	10000 U	CHRYSENE	10000 U
2-METHYLNAPHTHALENE	10000 U	DI-N-OCTYL PHTHALATE	10000 U
HEXACHLOROCYCLOPENTADIENE	10000 U	BENZO (B) FLUORANTHENE	10000 U
2,4,6-TRICHLOROPHENOL	10000 U	BENZO (K) FLUORANTHENE	10000 U
2,4,5-TRICHLOROPHENOL	25000 U	BENZO (A) PYRENE	10000 U



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : BL0706SF
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

LB1

PROJECT : SPECIAL
SAMPLE #: BL0706SF
LOCATION: LAB QC

LB1

PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 1.00000
MATRIX : S
METHOD : SW846 8270C

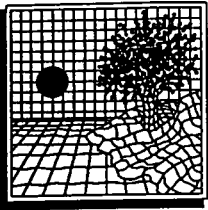
%MOISTURE: 0.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2-CHLORONAPHTHALENE	10000 U	INDENO (1, 2, 3-CD) PYRENE	10000 U
2-NITROANILINE	25000 U	DIBENZ (A, H) ANTHRACENE	10000 U
DIMETHYL PHTHALATE	10000 U	BENZO (G, H, I) PERYLENE	10000 U
ACENAPHTHYLENE	10000 U	CARBAZOLE	10000 U
3-NITROANILINE	25000 U	2, 3, 4, 6-TETRACHLOROPHENOL	10000 U
ACENAPHTHENE	10000 U		

QA/QC SURROGATE RECOVERIES			
NITROBENZENE-D5	(23-120) 57 %	2-FLUOROPHENOL	(25-121) 59 %
2-FLUOROBIPHENYL	(30-115) 61 %	PHENOL-D5	(24-113) 59 %
TERPHENYL-D14	(18-137) 68 %	2, 4, 6-TRIBROMOPHENOL	(19-122) 70 %



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORTED : 08/11/99

PROJECT : SPECIAL

MATRIX : S

PREPARED 07/06/99

LAB ID QC BATCH
LC0706SF 990706SF
LD0706SF 990706SF

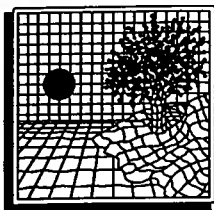
ANALYZED
07/17/99 10:36
07/17/99 11:09

SEMIVOLATILE ORGANIC COMPOUNDS
LABORATORY CONTROL SPIKE/SPIKE DUPLICATE RECOVERY

Parameter	(ug/Kg)	SPIKED AMOUNT	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
PHENOL		75000	43000	57	51000	68	18 *	14	37- 95
2-CHLOROPHENOL		75000	43000	58	53000	71	21 *	14	44- 96
1,4-DICHLOROBENZENE		50000	29000	59	36000	72	20 *	12	54- 90
N-NITROSO-DI-N-PROPYLAMIN		50000	32000	64	36000	71	11 *	9	44-110
1,2,4-TRICHLOROBENZENE		50000	28000	56	34000	68	20 *	13	50- 98
4-CHLORO-3-METHYLPHENOL		75000	50000	66	53000	71	7	15	40-101
ACENAPHTHENE		50000	31000	62	34000	69	10	16	49- 99
4-NITROPHENOL		75000	50000	66	52000	69	4	17	36-115
2,4-DINITROTOLUENE		50000	34000	68	35000	71	4	14	45- 96
PENTACHLOROPHENOL		75000	50000	66	53000	70	6	14	34-117
PYRENE		50000	32000	65	30000	60	7	19	37- 95

QA/QC SURROGATE RECOVERIES

Parameter	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	53	64	23-120
2-FLUOROPHENOL	48	57	25-121
2-FLUOROBIPHENYL	57	65	30-115
PHENOL-D5	57	67	24-113
TERPHENYL-D14	65	66	18-137
2,4,6-TRIBROMOPHENOL	68	68	19-122



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123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORTED : 08/11/99

PROJECT : SPECIAL

MATRIX : S

PREPARED 07/06/99

LAB ID	CLIENT ID	QC BATCH	ANALYZED
39270.10	MFC10	990706SA	07/13/99 17:21
39270.11 MS1	MFC10	990706SA	07/13/99 17:55
39270.12 SD1	MFC10	990706SA	07/13/99 18:29

SEMIVOLATILES

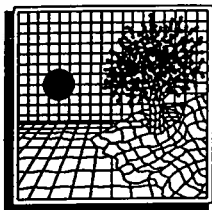
MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

Parameter	(ug/Kg)	SPIKED AMOUNT	SAMP CONC.	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX RPD	LIMITS %Rec.
PHENOL		3100	ND	1800	58	2100	67	15	35	37- 95
2-CHLOROPHENOL		3100	ND	1700	56	1900	62	11	50	44- 96
4-CHLORO-3-METHYLPHENOL		3100	ND	1400	44	1600	52	16	33	40-101
PENTACHLOROPHENOL		3100	11000	14000	178*	18000	281*	20	47	34-117

QA/QC SURROGATE RECOVERIES

Parameter	SAMPLE %Rec	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	149*	120*	136*	23-120
2-FLUOROPHENOL	61	56	65	25-121
2-FLUOROBIPHENYL	79	65	77	30-115
PHENOL-D5	64	57	66	24-113
TERPHENYL-D14	98	78	97	18-137
2,4,6-TRIBROMOPHENOL	72	58	69	19-122

* = VALUES OUTSIDE OF QC LIMITS



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Attn: JIM CRAWFORD

REPORT : 39270.01
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.01
SAMPLE #: MFC1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 100.000
MATRIX : Soil
METHOD : SW846 8270C
Dilution Run

%MOISTURE: 26.0
LEVEL : L

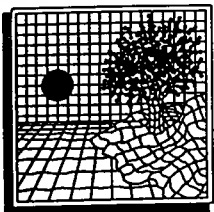
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS		PARAMETER	RESULTS	
2,3,4,6-TETRACHLOROPHENOL	45000	U	PENTACHLOROPHENOL	110000	U
PHENOL	45000	U	PHENANTHRENE	56000	D
2-CHLOROPHENOL	45000	U	FLUORANTHENE	310000	D
2,4-DIMETHYLPHENOL	45000	U	BENZO (A) ANTHRACENE	67000	D
NAPHTHALENE	45000	U	BENZO (B) FLUORANTHENE	39000	JD
4-CHLORO-3-METHYLPHENOL	45000	U	BENZO (A) PYRENE	32000	JD
2,4,6-TRICHLOROPHENOL	45000	U	INDENO (1,2,3-CD) PYRENE	14000	JD
ACENAPHTHYLENE	5200	JD	DIBENZ (A,H) ANTHRACENE	6200	JD
2,4-DINITROPHENOL	110000	U	CARBAZOLE	45000	U

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120)	0	% *	2-FLUOROPHENOL	(25-121)	0	% *
2-FLUOROBIPHENYL	(30-115)	0	% *	PHENOL-D5	(24-113)	0	% *
TERPHENYL-D14	(18-137)	0	% *	2,4,6-TRIBROMOPHENOL	(19-122)	0	% *



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KERR MCGEE CHEMICAL CORP.
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Attn: JIM CRAWFORD

REPORT : 39270.02
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02
SAMPLE #: MFC2
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

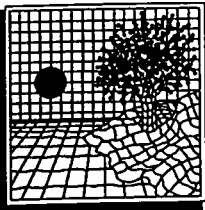
DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 1.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
PHENOL	10000 U	2,4-DINITROPHENOL	25000 U
BIS(2-CHLOROETHYL) ETHER	10000 U	4-NITROPHENOL	25000 U
2-CHLOROPHENOL	10000 U	DIBENZOFURAN	1300 J
1,3-DICHLOROBENZENE	10000 U	2,4-DINITROTOLUENE	10000 U
1,4-DICHLOROBENZENE	10000 U	2,6-DINITROTOLUENE	10000 U
BENZYL ALCOHOL	10000 U	DIETHYLPHTHALATE	10000 U
1,2-DICHLOROBENZENE	10000 U	4-CHLOROPHENYL-PHENYLETHER	10000 U
2-METHYLPHENOL	10000 U	FLUORENE	1400 J
BIS(2-CHLOROISOPROPYL) ETHER	10000 U	4-NITROANILINE	25000 U
4-METHYLPHENOL	10000 U	4,6-DINITRO-2-METHYLPHENOL	25000 U
N-NITROSO-DI-N-PROPYLAMINE	10000 U	N-NITROSODIPHENYLAMINE	10000 U
HEXACHLOROETHANE	10000 U	4-BROMOPHENYL-PHENYLETHER	10000 U
NITROBENZENE	10000 U	HEXACHLOROBENZENE	10000 U
ISOPHORONE	10000 U	PENTACHLOROPHENOL	1300 J
2-NITROPHENOL	10000 U	PHENANTHRENE	7000 J
2,4-DIMETHYLPHENOL	10000 U	ANTHRACENE	610 J
BENZOIC ACID	5200 J	DI-N-BUTYL PHTHALATE	10000 U
BIS(2-CHLOROETHOXY) METHANE	10000 U	FLUORANTHENE	28000
2,4-DICHLOROPHENOL	10000 U	PYRENE	13000
1,2,4-TRICHLOROBENZENE	10000 U	BUTYL BENZYL PHTHALATE	10000 U
NAPHTHALENE	1800 J	3,3'-DICHLOROBENZIDINE	10000 U
4-CHLOROANILINE	10000 U	BENZO (A) ANTHRACENE	10000 U
HEXACHLOROBUTADIENE	10000 U	BIS(2-ETHYLHEXYL) PHTHALATE	920 JB
4-CHLORO-3-METHYLPHENOL	10000 U	CHRYSENE	6900 J
2-METHYLNAPHTHALENE	740 J	DI-N-OCTYL PHTHALATE	10000 U
HEXACHLOROCYCLOPENTADIENE	10000 U	BENZO (B) FLUORANTHENE	10000 U
2,4,6-TRICHLOROPHENOL	10000 U	BENZO (K) FLUORANTHENE	10000 U
2,4,5-TRICHLOROPHENOL	25000 U	BENZO (A) PYRENE	3200 J



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FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.02
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02
SAMPLE #: MFC2
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 1.0
LEVEL : M

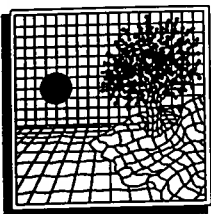
SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2-CHLORONAPHTHALENE	10000 U	INDENO (1, 2, 3-CD) PYRENE	10000 U
2-NITROANILINE	25000 U	DIBENZ (A, H) ANTHRACENE	10000 U
DIMETHYL PHTHALATE	10000 U	BENZO (G, H, I) PERYLENE	10000 U
ACENAPHTHYLENE	10000 U	CARBAZOLE	810 J
3-NITROANILINE	25000 U	2, 3, 4, 6-TETRACHLOROPHENOL	10000 U
ACENAPHTHENE	1300 J		

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 56 %	2-FLUOROPHENOL	(25-121) 59 %
2-FLUOROBIPHENYL	(30-115) 60 %	PHENOL-D5	(24-113) 55 %
TERPHENYL-D14	(18-137) 65 %	2, 4, 6-TRIBROMOPHENOL	(19-122) 61 %



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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.03
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.03
SAMPLE #: MFC3
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 21.0
LEVEL : L

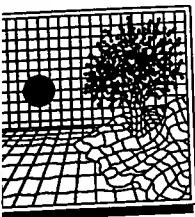
SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	420 U	PENTACHLOROPHENOL	200 J
PHENOL	420 U	PHENANTHRENE	6400 E
2-CHLOROPHENOL	420 U	FLUORANTHENE	7200 E
2,4-DIMETHYLPHENOL	420 U	BENZO (A) ANTHRACENE	2600
NAPHTHALENE	570	BENZO (B) FLUORANTHENE	2800
4-CHLORO-3-METHYLPHENOL	420 U	BENZO (A) PYRENE	2100
2,4,6-TRICHLOROPHENOL	420 U	INDENO (1,2,3-CD) PYRENE	1600
ACENAPHTHYLENE	440	DIBENZ (A,H) ANTHRACENE	600
2,4-DINITROPHENOL	1000 U	CARBAZOLE	340 J

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 69 %	2-FLUOROPHENOL	(25-121) 63 %
2-FLUOROBIPHENYL	(30-115) 66 %	PHENOL-D5	(24-113) 62 %
TERPHENYL-D14	(18-137) 64 %	2,4,6-TRIBROMOPHENOL	(19-122) 63 %



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OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.03
QAQC# : 990706SA
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.03
SAMPLE #: MFC3
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/16/99

DILUTION: 4.00000
MATRIX : Soil
METHOD : SW846 8270C
Dilution Run

%MOISTURE: 21.0
LEVEL : L

SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

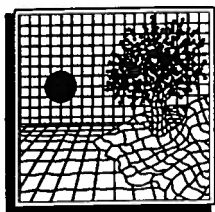
PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	1700 U	PENTACHLOROPHENOL	190 JD
PHENOL	1700 U	PHENANTHRENE	7200 D
2-CHLOROPHENOL	1700 U	FLUORANTHENE	9200 D
2,4-DIMETHYLPHENOL	1700 U	BENZO (A) ANTHRACENE	2800 D
NAPHTHALENE	500 JD	BENZO (B) FLUORANTHENE	2500 D
4-CHLORO-3-METHYLPHENOL	1700 U	BENZO (A) PYRENE	1800 D
2,4,6-TRICHLOROPHENOL	1700 U	INDENO (1,2,3-CD) PYRENE	1300 JD
ACENAPHTHYLENE	400 JD	DIBENZ (A,H) ANTHRACENE	470 JD
2,4-DINITROPHENOL	4200 U	CARBAZOLE	270 JD

NITROBENZENE-D5
2-FLUOROBIPHENYL
TERPHENYL-D14

QA/QC SURROGATE RECOVERIES
(23-120) 53 %
(30-115) 62 %
(18-137) 57 %

(25-121) 51 %
(24-113) 57 %
(19-122) 59 %

2-FLUOROPHENOL
PHENOL-D5
2,4,6-TRIBROMOPHENOL



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REPORT : 39270.02
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02 MS1
SAMPLE #: MFC2 MS1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 1.0
LEVEL : M

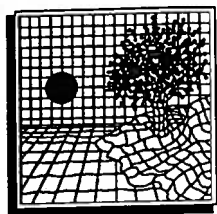
SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2-CHLORONAPHTHALENE	10000 U	INDENO (1, 2, 3-CD) PYRENE	10000 U
2-NITROANILINE	25000 U	DIBENZ (A, H) ANTHRACENE	10000 U
DIMETHYL PHTHALATE	10000 U	BENZO (G, H, I) PERYLENE	10000 U
ACENAPHTHYLENE	900 J	CARBAZOLE	1200 J
3-NITROANILINE	25000 U	2, 3, 4, 6-TETRACHLOROPHENOL	10000 U
ACENAPHTHENE	29000		

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 47 %	2-FLUOROPHENOL	(25-121) 48 %
2-FLUOROBIPHENYL	(30-115) 53 %	PHENOL-D5	(24-113) 50 %
TERPHENYL-D14	(18-137) 61 %	2, 4, 6-TRIBROMOPHENOL	(19-122) 54 %



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REPORT : 39270.02
QAQC# : 990706SF
INSTR SEQ: 437140-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.02 MS1
SAMPLE #: MFC2
LOCATION:

MS1

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/17/99

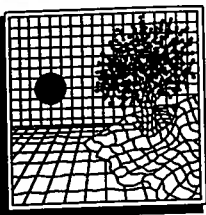
DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 1.0
LEVEL : M

SEMIVOLATILE ORGANIC COMPOUNDS

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
PHENOL	37000	2,4-DINITROPHENOL	25000 U
BIS(2-CHLOROETHYL) ETHER	10000 U	4-NITROPHENOL	41000
2-CHLOROPHENOL	38000	DIBENZOFURAN	2100 J
1,3-DICHLOROBENZENE	10000 U	2,4-DINITROTOLUENE	23000
1,4-DICHLOROBENZENE	24000	2,6-DINITROTOLUENE	10000 U
BENZYL ALCOHOL	10000 U	DIETHYLPHTHALATE	10000 U
1,2-DICHLOROBENZENE	10000 U	4-CHLOROPHENYL-PHENYLETHER	10000 U
2-METHYLPHENOL	10000 U	FLUORENE	2500 J
BIS(2-CHLOROISOPROPYL) ETHER	10000 U	4-NITROANILINE	25000 U
4-METHYLPHENOL	10000 U	4,6-DINITRO-2-METHYLPHENOL	25000 U
N-NITROSO-DI-N-PROPYLAMINE	26000	N-NITROSODIPHENYLAMINE	10000 U
HEXACHLOROETHANE	10000 U	4-BROMOPHENYL-PHENYLETHER	10000 U
NITROBENZENE	10000 U	HEXACHLOROBENZENE	10000 U
ISOPHORONE	10000 U	PENTACHLOROPHENOL	47000
2-NITROPHENOL	10000 U	PHENANTHRENE	8500 J
2,4-DIMETHYLPHENOL	10000 U	ANTHRACENE	1600 J
BENZOIC ACID	5900 J	DI-N-BUTYL PHTHALATE	10000 U
BIS(2-CHLOROETHOXY) METHANE	10000 U	FLUORANTHENE	25000
2,4-DICHLOROPHENOL	10000 U	PYRENE	40000
1,2,4-TRICHLOROBENZENE	25000	BUTYL BENZYL PHTHALATE	10000 U
NAPHTHALENE	2800 J	3,3'-DICHLOROBENZIDINE	10000 U
4-CHLOROANILINE	10000 U	BENZO (A) ANTHRACENE	10000 U
HEXACHLOROBUTADIENE	10000 U	BIS (2-ETHYLHEXYL) PHTHALATE	1200 JB
4-CHLORO-3-METHYLPHENOL	43000	CHRYSENE	7200 J
2-METHYLNAPHTHALENE	10000 U	DI-N-OCTYL PHTHALATE	10000 U
HEXACHLOROCYCLOPENTADIENE	10000 U	BENZO (B) FLUORANTHENE	10000 U
2,4,6-TRICHLOROPHENOL	10000 U	BENZO (K) FLUORANTHENE	10000 U
2,4,5-TRICHLOROPHENOL	25000 U	BENZO (A) PYRENE	10000 U



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany Broken Arrow, Oklahoma 74012 Office (918) 251-2858 Fax (918) 251-2599

KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORTED : 08/11/99

PROJECT : SPECIAL

MATRIX : S

PREPARED 07/06/99

LAB ID	CLIENT ID
39270.02	MFC2
39270.02 MS1	MFC2
39270.02 SD1	MFC2

QC BATCH
990706SF
990706SF
990706SF

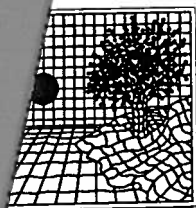
ANALYZED
07/17/99 14:45
07/17/99 15:19
07/17/99 15:53

SEMIVOLATILE ORGANIC COMPOUNDS MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

Parameter	(ug/Kg)	SPIKED AMOUNT	SAMP CONC.	SPIKE CONC.	SPIKE %Rec	DUP CONC.	DUP %Rec	RPD	MAX	LIMITS
									RPD	%Rec.
PHENOL		76000	ND	37000	49	48000	63	25	35	26- 90
2-CHLOROPHENOL		76000	ND	38000	50	51000	67	29	50	25-102
1,4-DICHLOROBENZENE		50000	ND	24000	47	31000	62	26	27	28-104
N-NITROSO-DI-N-PROPYLAMIN		50000	ND	26000	52	34000	69	27	38	41-126
1,2,4-TRICHLOROBENZENE		50000	ND	25000	50	34000	68	30	*	23 38-107
4-CHLORO-3-METHYLPHENOL		76000	ND	43000	57	58000	76	29	33	26-103
ACENAPHTHENE		50000	1300	29000	56	34000	66	17	19	31-137
4-NITROPHENOL		76000	ND	41000	54	52000	69	23	50	11-114
2,4-DINITROTOLUENE		50000	ND	23000	45	29000	58	24	47	28- 89
PENTACHLOROPHENOL		76000	1300	47000	60	63000	82	30	47	17-109
PYRENE		50000	13000	40000	80	49000	98	20	36	35-142

QA/QC SURROGATE RECOVERIES

Parameter	SAMPLE %Rec	SPIKE %Rec	DUP %Rec	Limits
NITROBENZENE-D5	56	47	61	23-120
2-FLUOROPHENOL	59	48	60	25-121
2-FLUOROBIPHENYL	60	53	67	30-115
PHENOL-D5	55	50	64	24-113
TERPHENYL-D14	65	61	72	18-137
2,4,6-TRIBROMOPHENOL	61	54	68	19-122



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KERR MCGEE CHEMICAL CORP.
FOREST PRODUCTS DIVISION
123 ROBERT S. KERR AVE.
OKLAHOMA CITY, OK 73102
Attn: JIM CRAWFORD

REPORT : 39270.01
QAQC# : 990706SA
INSTR SEQ: 436941-BABa
REPORTED : 08/11/99

PROJECT : SPECIAL
LAB# : 39270.01
SAMPLE #: MFC1
LOCATION:

SAMPLED : 07/01/99
SUBMITTED: 07/03/99
PREPARED : 07/06/99
ANALYZED : 07/13/99

DILUTION: 1.00000
MATRIX : Soil
METHOD : SW846 8270C

%MOISTURE: 26.0
LEVEL : L

SEMIVOLATILES

RESULTS REPORTED IN ug/Kg ON A DRY WEIGHT BASIS

PARAMETER	RESULTS	PARAMETER	RESULTS
2,3,4,6-TETRACHLOROPHENOL	450 U	PENTACHLOROPHENOL	1100 U
PHENOL	68 J	PHENANTHRENE	80000 E
2-CHLOROPHENOL	450 U	FLUORANTHENE	110000 E
2,4-DIMETHYLPHENOL	450 U	BENZO (A) ANTHRACENE	82000 E
NAPHTHALENE	1500	BENZO (B) FLUORANTHENE	23000 E
4-CHLORO-3-METHYLPHENOL	450 U	BENZO (A) PYRENE	15000 E
2,4,6-TRICHLOROPHENOL	450 U	INDENO (1,2,3-CD) PYRENE	9200 E
ACENAPHTHYLENE	3500	DIBENZ (A,H) ANTHRACENE	4300 E
2,4-DINITROPHENOL	1100 U	CARBAZOLE	4000 E

QA/QC SURROGATE RECOVERIES

NITROBENZENE-D5	(23-120) 70 %	2-FLUOROPHENOL	(25-121) 61 %
2-FLUOROBIPHENYL	(30-115) 67 %	PHENOL-D5	(24-113) 60 %
TERPHENYL-D14	(18-137) 138 % *	2,4,6-TRIBROMOPHENOL	(19-122) 66 %

Tronox LLC, Columbus

General Information

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

Address

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

Telecommunications

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

Alternate / Historic AI Identifiers

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

Regulatory Programs

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

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

Locational Data

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

10/13/2006 10:29:50 AM