1,-969

1631210014
Moss American
SR/Tech
160397

KERR-McGEE CORPORATION
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

July 21, 1997

Mr. Robert O'Hara
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

RECEIVED
JUL 25 1997
IEPA/BOL

Re: Former Moss-American Site - Sauget, Illinois
Project 121535
Groundwater Quality Report - January, 1997

Dear Mr. O'Hara:

Enclosed for your review, Kerr-McGee Chemical Corporation is submitting to the Illinois Environmental Protection Agency (IEPA), three copies of the first semi annual report of the January, 1997 Feasibility Study sampling event at the Former Moss-American Site. This groundwater quality report is being submitted in accordance with the October 16, 1991 Soil, Groundwater, and Free Product Remedial Action Objectives approved by the IEPA.

A summary of groundwater level measurements and sample analytical results with graphs is attached. Copies of the analytical reports, are available to the IEPA upon request.

The next scheduled annual sampling event will begin on July 20, 1997 and be completed on July 24. If you have questions regarding the quarterly report or the upcoming sampling, please contact me at (406) 270-3747.

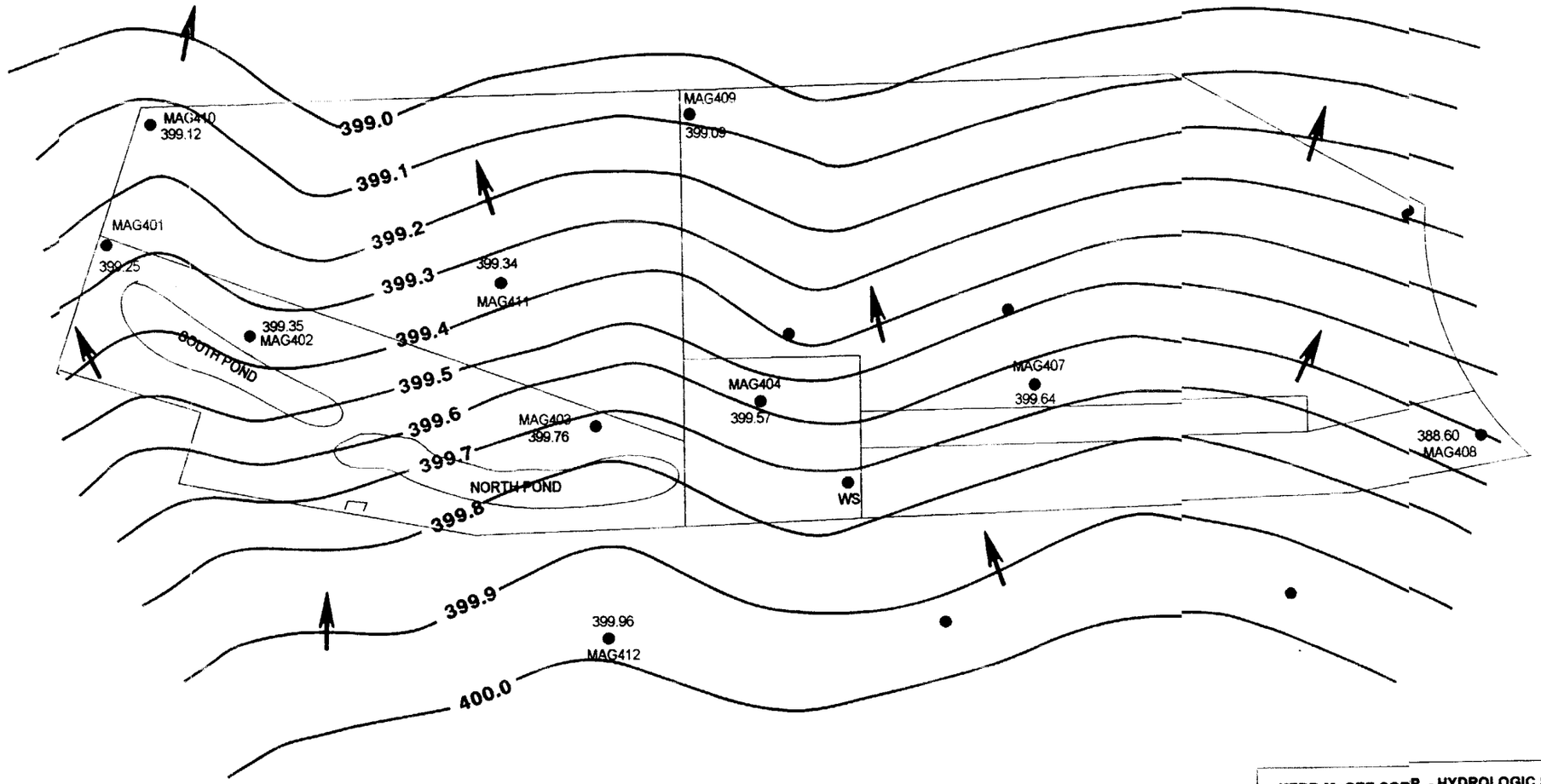
Sincerely,

A. Keith Watson
Project Manager

Attachments:
cc: J. L. Morgan (IAGO)
D. G. Baker (CCI)
G. Cristiansen (KMC/SEA)
K. Olson (Philip Env.)
F. Hackmann (SNR)

ORIGINAL
SCREENED
M M

ATTACHMENT - II
GROUNDWATER POTENTIOMETRIC SURFACE MAPS



EXPLANATION

MAG ● MONITORING WELL LOCATION & IDENTIFICATIONS

402 WATER LEVEL ELEVATION CONTOURS

CONTOUR INTERVAL = .10

WATER LEVELS TAKEN JANUARY 21, 1997

N

0 400 FT

SCALE

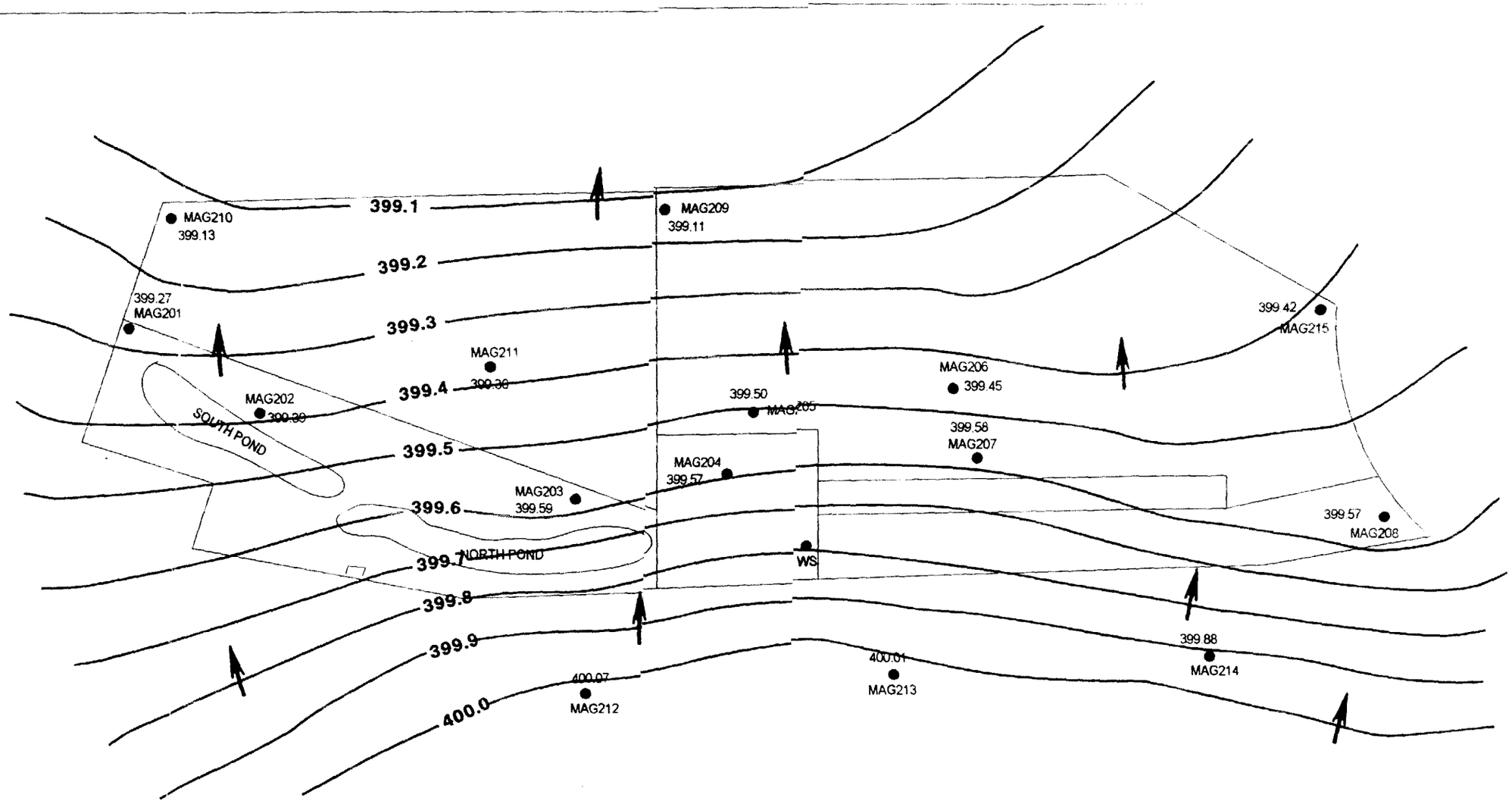
KERR-McGEE CORP. - HYDROLOGIC SERVICES

POTENTIOMETRIC SURFACE
DEEP MONITORING WELLS
JANUARY 21, 1997

KERR-McGEE CHEMICAL CORP.
SAUGET, IL

MAP DATE: 7/97

DRAWN BY: K. BULLER



EXPLANATION

MAG ● MONITORING WELL LOCATION & IDENTIFICATIONS

400 WATER LEVEL ELEVATION CONTOURS

CONTOUR INTERVAL = .10

WATER LEVELS TAKEN JANUARY 21, 1997

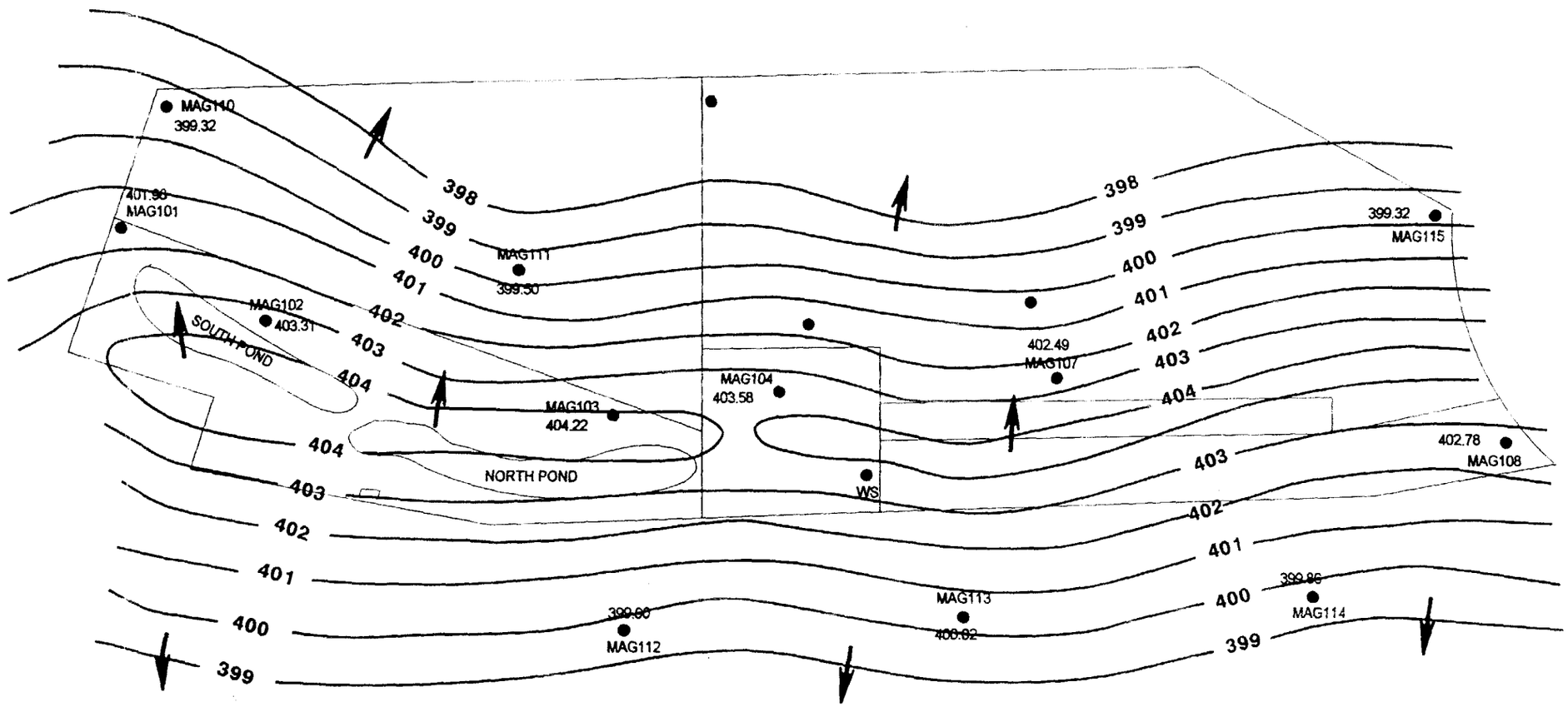
0 400 FT
SCALE

KERR-McGEE CORP. - HYDROLOGIC SERVICES

POTENTIOMETRIC SURFACE
INTERMEDIATE MONITORING WELLS
JANUARY 21, 1997

KERR-McGEE CHEMICAL CORP.
SAUGET, IL

MAP DATE: 7/97 | DRAWN BY: K. BULLER



EXPLANATION

MAG ● MONITORING WELL LOCATION & IDENTIFICATIONS

404 WATER LEVEL ELEVATION CONTOURS

CONTOUR INTERVAL = 1

WATER LEVELS TAKEN JANUARY 21, 1997

0 400 FT
SCALE

KERR-McGEE CORP. - HYDROLOGIC SERVICES

POTENTIOMETRIC SURFACE
SHALLOW MONITORING WELLS
JANUARY 21, 1997

KERR-McGEE CHEMICAL CORP.
SAUGET, IL

MAP DATE: 7/97 | DRAWN BY: K. BULLER

ATTACHMENT - III

GROUNDWATER SAMPLE RESULTS

Groundwater Sample Results
January 1997
Sauget,Illinois

concentration (mg/L)

Monitoring Well	Benzene	Ethylbenzene	Toluene	Xylene(Total)	Pentachloro-	Phenol	Cresols	Naphthalene	TNCPAH	TCPAH	BTEX
MAG101	0	0	0	0	0	0	0	0	0	0	0
MAG103	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAG108	0	0	0	0	0	0	0	0	1.00993	0	0
MAG110	0	0	0	0	0	0	0	0	0	0	0
MAG201	0.192	0.111	0.0829	0.1379	0	0	0.0489	8.47	0.29607	8.47	0.5238
MAG203	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAG208	0	0	0	0	0	0	0	0	0	0	0
MAG209	0	0	0	0	0	0	0	0	0	0	0
MAG210	0	0	0	0	0	0	0	0	0	0	0
MAG401	0	0	0	0	0	0	0	0	0	0	0
MAG403	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAG408	0.003	0	0.00499	0.0007	0	0	0	0	0	0	0.00869
MAG409	0	0	0	0	0	0	0	0	0.02694	0	0
MAG410	0	0	0	0	0	0	0	0	0	0	0
MAG404	0	0	0	0	0	0	0	0	0	0	0
MAG411	0.003	0.279	0.138	0.35	0	0	0	4.81	0.55207	4.81	0.77
MAG412	0	0	0	0	0	0	0	0	0	0	0

NS=NOT SAMPLED

KERR-MCGEE CHEMICAL CORPORATION
SAUGET,IL

JULY 1996

PARAMETERS		MAG101	MAG103	MAG108	MAG110	MAG201	MAG203	MAG208	MAG209	MAG210	MAG401	MAG403	MAG408	MAG409	MAG410	MAGDU	MAG404	MAG411	MAG412
PRIORITY POLL. VOLATILES GC/M	UNITS																		
BENZENE	ug/l	12.2	NS	0	0	142	NS	0	0	0	0	NS	5.02	0	0	0	0	0	0
ETHYLBENZENE	ug/l	4.66	NS	0	0	71.8	NS	0	0	0	0	NS	0	0	0	0	0	370	0
TOLUENE	ug/l	0.99	NS	0	0	50.3	NS	0	0	0	0	NS	7.08	0	0	0	0	140	0
PRIORITY POLL. ACIDS GC/MS																			
PENTACHLOROPHENOL	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
PHENOL	ug/l	0	NS	0	0	4	NS	0	0	0	0	NS	0	0	0	0	0	0	0
PRIORITY POLL. B/N: GC/MS																			
ACENAPHTHENE	ug/l	351	NS	236	0	191	NS	0	0	0	0	NS	0	21.5	0	0	468	470	0
ACENAPHTHYLENE	ug/l	0.59	NS	1.1	0	2.6	NS	0	0	0	0	NS	0	0.59	0	0	0	0	0
ANTHRACENE	ug/l	10.6	NS	3.98	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
BENZO(A)ANTHRACENE	ug/l	3.8	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
BENZO(A)PYRENE	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
BENZO(B)FLUORANTHENE	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
BENZO(GHI)PERYLENE	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
BENZO(K)FLUORANTHENE	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
CHRYSENE	ug/l	3.09	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
DIBENZO(A,H)ANTHRACENE	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
DI-N-BUTYL PHTHALATE	ug/l	NA	NS	NA	NA	NA	NS	NA	NA	NA	NA	NS	NA	NA	NA	NA	NA	NA	NA
FLUORANTHENE	ug/l	51.2	NS	38.7	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
FLUORENE	ug/l	138	NS	105	0	3.15	NS	0	0	0	0	NS	0	6.6	0	0	170	180	0
INDENO(1,2,3-C D)PYRENE	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
NAPHTHALENE	ug/l	1180	NS	209	0	7800	NS	0	0	0	0	NS	0	0	0	0.5	13100	13300	0
PHENANTHRENE	ug/l	199	NS	114	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
PYRENE	ug/l	30	NS	23.8	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
MISCELLANEOUS PARAMETERS																			
M+P-CRESOLS	ug/l	0	NS	0	0	0	NS	0	0	0	0	NS	0	0	0	0	0	0	0
M+P-XYLENES	ug/l	4.2	NS	0	0	64.4	NS	0	0	0	0	NS	0.77	0	0	0	0	160	0
O-CRESOL	ug/l	0	NS	0	0	18	NS	0	0	0	0	NS	0	0	0	0	0	0	0
O-XYLENE	ug/l	3.48	NS	0	0	34.4	NS	0	0	0	0	NS	0	0	0	0	0	230	0
XYLENES (TOTAL)	ug/l	7.68	NS	0	0	98.8	NS	0	0	0	0	NS	0.77	0	0	0	0	390	0

DATA MANAGEMENT SUMMARY

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point Date*

Parameters	Units	MAG110 970122 BTI600	MAG210 970122 BTI601	MAG410 970121 BTI602	MAG209 970121 BTI603	MAG409 970121 BTI604	MAGDUP 970121 BTI605	MAG412 970121 BTI606	MAG108 970121 BTI607
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9	< .9	< .9	< .9	< .9
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Phenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2	19.9	406	< 2	456
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4	< 4	J 2.1	< 4	J 2.3
Anthracene	ug/l	< 2	< 2	< 2	< 2	< 2	8.51	< 2	8.83
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Fluoranthene	ug/l	< 2	< 2	< 2	< 2	< 2	42.1	< 2	38.4
Fluorene	ug/l	< 2	< 2	< 2	< 2	7.04	254	< 2	260
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Phenanthrene	ug/l	< 5	< 6	< 5	< 5	< 6	225	< 6	222
Pyrene	ug/l	< 2	< 2	< 2	< 2	< 2	24.7	< 2	22.4
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
o-Cresol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	Sample Point	Date
	KERR-MCGEE CORPORATION	KMSAUGGWM	See Below	

Parameters	Units	MAG208 970121 BTI608	MAG408 970121 BTI609	MAG404 970121 BTI610	MAG411 970121 BTI611	MAG101 970122 BTI612	MAG201 970122 BTI613	MAG401 970122 BTI614	TRIPBLANK 970122 BTI615
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	3.00	< .9	J 3.0	7.49	192	< .9	J .40
Ethylbenzene	ug/l	< 1	< 1.44	< 1	279	3.41	111	< 1	< 1
Toluene	ug/l	< 1	4.99	< 1	138	J .89	82.9	< 1	J .33
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Phenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	330	229	292	< 2	-
Acenaphthylene	ug/l	< 4	< 4	< 4	4.63	< 4	< 4	< 4	-
Anthracene	ug/l	< 2	< 2	< 2	3.14	6.24	< 2	< 2	-
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8	< 8	< 8	< 8	-
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Fluoranthene	ug/l	< 2	< 2	< 2	< 2	24.3	< 2	< 2	-
Fluorene	ug/l	< 2	< 2	< 2	145	73.1	4.07	< 2	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Naphthalene	ug/l	< 2	< 2	< 2	4810	490	8470	< 2	-
Phenanthrene	ug/l	< 5	< 5	< 6	69.1	80.3	< 5	< 5	-
Pyrene	ug/l	< 2	< 2	< 2	< 2	14.0	< 2	< 2	-
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
m+p-Xylenes	ug/l	< 2	J .70	< 2	148	4.17	88.9	< 2	< 2
o-Cresol	ug/l	< 10	< 10	< 10	< 10	< 10	48.9	< 10	-
o-Xylene	ug/l	< 2	< 2	< 2	202	3.29	J 49	< 2	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	Sample Point	Date
	KERR-MCGEE CORPORATION	KMSAUGGWM	See Below	

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s TRIPBLANK 970121 BTI616							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9							
Ethylbenzene	ug/l	< 1							
Toluene	ug/l	< 1							
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	-							
Phenol	ug/l	-							
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	-							
Acenaphthylene	ug/l	-							
Anthracene	ug/l	-							
Benzo(a)anthracene	ug/l	-							
Benzo(a)pyrene	ug/l	-							
Benzo(b)fluoranthene	ug/l	-							
Benzo(ghi)perylene	ug/l	-							
Benzo(k)fluoranthene	ug/l	-							
Chrysene	ug/l	-							
Dibenzo(a,h)anthracene	ug/l	-							
Fluoranthene	ug/l	-							
Fluorene	ug/l	-							
Indeno(1,2,3-c,d)pyrene	ug/l	-							
Naphthalene	ug/l	-							
Phenanthrene	ug/l	-							
Pyrene	ug/l	-							
Miscellaneous Parameters									
m+p-Cresols	ug/l	-							
m+p-Xylenes	ug/l	< 2							
o-Cresol	ug/l	-							
o-Xylene	ug/l	< 2							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

DATE: 02/14/
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG210	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	MAG210 930725 BJZ701	MAG210 960123 BNZ201	MAG210 960722 BQV801	MAG210 970122 BTI601				
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	< 1	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	< 6				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

DATE: 02/14/97
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG401	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG401 950726 BJZ714	MAG401 960124 BNZ214	MAG401 960723 BQV814	MAG401 970122 BTI614				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .20	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported), <=ND(MDL Reported).

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

DATE: 02/14/97
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG209	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG209 950725 BJZ703	MAG209 960123 BNZ203	MAG209 960722 BQV803	MAG209 970121 BTI603				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	< 1	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	2.57	< 2	< 2				
Phenanthrene	ug/l	< 6	< 5	< 6	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

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DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	KERR-MCGEE CORPORATION Company	KMSAUGGWM Facility	MAG201 Sample Point	See Below Date

Parameters	Units	MAG201 950726 BJZ713	MAG201 960124 BNZ213	MAG201 960723 BQV813	MAG201 970122 BTI613				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	143	154	142	192				
Ethylbenzene	ug/l	70.2	87.0	71.8	111				
Toluene	ug/l	50.9	61.1	50.3	82.9				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 40	< 40	< 4	< 4				
Phenol	ug/l	< 20	< 20	4.00	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	251	260	191	292				
Acenaphthylene	ug/l	J 3.0	< 40	J 2.6	< 4				
Anthracene	ug/l	< 20	< 20	< 1.92	< 2				
Benzo(a)anthracene	ug/l	< 80	< 80	< 8	< 8				
Benzo(a)pyrene	ug/l	< 30	< 30	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 50	< 50	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 40	< 40	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 30	< 30	< 3	< 3				
Chrysene	ug/l	< 30	< 30	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 30	< 30	< 3	< 3				
Fluoranthene	ug/l	< 20	< 20	< 2	< 2				
Fluorene	ug/l	< 20	< 20	3.15	4.07				
Indeno(1,2,3-c,d)pyrene	ug/l	< 50	< 50	< 5	< 5				
Naphthalene	ug/l	6140	7320	7800	8470				
Phenanthrene	ug/l	< 50	< 50	< 5.45	< 5				
Pyrene	ug/l	< 20	< 20	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 100	< 100	< 10.1	< 10				
m+p-Xylenes	ug/l	53.7	64.7	64.4	88.9				
o-Cresol	ug/l	J 14	< 100	18.0	48.9				
o-Xylene	ug/l	33.1	39.4	34.4	J 49				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

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DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGM	MAG208	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG208 950726 BJZ708	MAG208 960124 BNZ208	MAG208 960723 BQV808	MAG208 970121 BTI608				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1.44	< 1	< 1	< 1				
Toluene	ug/l	J .44	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	J .63	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	J .36	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

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DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG40B	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	MAG40B 950726 BIZ709	MAG40B 960124 BNZ209	MAG40B 960723 BQV809	MAG40B 970121 BTI609				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	6.90	3.53	5.02	3.00				
Ethylbenzene	ug/l	< 1.44	< 1	< 1	< 1.44				
Toluene	ug/l	7.11	5.66	7.08	4.99				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	J .70	J .81	J .77	J .70				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

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DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	Sample Point	Date
	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG409	See Below

Sample Points, Sampling Dates, and ETC Sample No.'s

Parameters	Units	MAG409 950726 BJZ704	MAG409 960123 BNZ204	MAG409 960722 BQV804	MAG409 970121 BTI604				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .28	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	20.2	17.4	21.5	19.9				
Acenaphthylene	ug/l	< 3.50	< 4	J .59	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	6.93	4.90	6.60	7.04				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	< 6				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG410	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	MAG410 950725 BJZ702	MAG410 960123 BNZ202	MAG410 960722 BQV802	MAG410 970121 BTI602				
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	< 1	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAGDUP	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAGDUP 950726 BJZ705	MAGDUP 960123 BNZ205	MAGDUP 960722 BQV805	MAGDUP 970121 BTI605				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .25	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	21.5	22.2	< 2	406				
Acenaphthylene	ug/l	< 3.54	< 4	< 4	J 2.1				
Anthracene	ug/l	< 2	< 2	< 2	8.51				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	42.1				
Fluorene	ug/l	7.53	7.39	< 2	254				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	J .50	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	225				
Pyrene	ug/l	< 2	< 2	< 2	24.7				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG411	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		MAG411 950726 BJZ711	MAG411 960123 BNZ211	MAG411 960722 BQV811	MAG411 970121 BTI611				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	J 2.3	1.81	< 20	J 3.0				
Ethylbenzene	ug/l	311	310	370	279				
Toluene	ug/l	320	184	140	138				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 40	< 700	< 400	< 4				
Phenol	ug/l	< 20	< 300	< 200	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	515	394	470	330				
Acenaphthylene	ug/l	J 8.0	< 700	< 400	4.83				
Anthracene	ug/l	J 5.6	< 400	< 200	3.14				
Benzo(a)anthracene	ug/l	< 80	< 2000	< 800	< 8				
Benzo(a)pyrene	ug/l	< 30	< 500	< 300	< 3				
Benzo(b)fluoranthene	ug/l	< 50	< 1000	< 500	< 5				
Benzo(ghi)perylene	ug/l	< 40	< 800	< 400	< 4				
Benzo(k)fluoranthene	ug/l	< 30	< 500	< 300	< 3				
Chrysene	ug/l	< 30	< 500	< 300	< 3				
Dibenzo(a,h)anthracene	ug/l	< 30	< 500	< 300	< 3				
Fluoranthene	ug/l	< 20	< 400	< 200	< 2				
Fluorene	ug/l	278	J 140	J 180	145				
Indeno(1,2,3-c,d)pyrene	ug/l	< 50	< 900	< 500	< 5				
Naphthalene	ug/l	10100	11700	13300	4810				
Phenanthrene	ug/l	116	< 1000	< 600	69.1				
Pyrene	ug/l	< 20	< 400	< 200	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 100	< 2000	< 1000	< 10				
m+p-Xylenes	ug/l	306	192	160	148				
o-Cresol	ug/l	< 100	< 2000	< 1000	< 10				
o-Xylene	ug/l	220	201	230	202				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	KERR-MCGEE CORPORATION Company	KMSAUGGWM Facility	MAG412 Sample Point	See Below Date

Parameters	Units	MAG412 950726 BJZ706	MAG412 960124 BNZ206	MAG412 960723 BQV806	MAG412 970121 BTI606				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .21	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 6				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 02/14/9
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGM	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point* *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG110 970122 BTI600	MAG210 970122 BTI601	MAG410 970121 BTI602	MAG209 970121 BTI603	MAG409 970121 BTI604	MAGDUP 970121 BTI605	MAG412 970121 BTI606	MAG108 970121 BTI607
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9	< .9	< .9	< .9	< .9
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Phenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2	19.9	406	< 2	456
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4	< 4	J 2.1	< 4	J 2.3
Anthracene	ug/l	< 2	< 2	< 2	< 2	< 2	8.51	< 2	8.83
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Fluoranthene	ug/l	< 2	< 2	< 2	< 2	< 2	42.1	< 2	38.4
Fluorene	ug/l	< 2	< 2	< 2	< 2	7.04	254	< 2	260
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Phenanthrene	ug/l	< 5	< 6	< 5	< 5	< 6	225	< 6	222
Pyrene	ug/l	< 2	< 2	< 2	< 2	< 2	24.7	< 2	22.4
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
o-Cresol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

PAH

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point* *Date*
	KERR-MCGEE CORPORATION	KMSAUGGWM	

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG208 970121 BTI608	MAG408 970121 BTI609	MAG404 970121 BTI610	MAG411 970121 BTI611	MAG101 970122 BTI612	MAG201 970122 BTI613	MAG401 970122 BTI614	TRIPBLANK 970122 BTI615
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	3.00	< .9	J 3.0	7.49	192	< .9	J .40
Ethylbenzene	ug/l	< 1	< 1.44	< 1	279	3.41	111	< 1	< 1
Toluene	ug/l	< 1	4.99	< 1	138	J .89	82.9	< 1	J .33
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Phenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	330	229	292	< 2	-
Acenaphthylene	ug/l	< 4	< 4	< 4	4.83	< 4	< 4	< 4	-
Anthracene	ug/l	< 2	< 2	< 2	3.14	6.24	< 2	< 2	-
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8	< 8	< 8	< 8	-
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Fluoranthene	ug/l	< 2	< 2	< 2	< 2	24.3	< 2	< 2	-
Fluorene	ug/l	< 2	< 2	< 2	145	73.1	4.07	< 2	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Naphthalene	ug/l	< 2	< 2	< 2	4810	490	8470	< 2	-
Phenanthrene	ug/l	< 5	< 5	< 6	69.1	80.3	< 5	< 5	-
Pyrene	ug/l	< 2	< 2	< 2	< 2	14.0	< 2	< 2	-
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
m+p-Xylenes	ug/l	< 2	J .70	< 2	148	4.17	88.9	< 2	< 2
o-Cresol	ug/l	< 10	< 10	< 10	< 10	< 10	48.9	< 10	-
o-Xylene	ug/l	< 2	< 2	< 2	202	3.29	J 49	< 2	< 2

TCPAH

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested J=BMDL(Value Reported) <=ND(MDL Reported).

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	Sample Point	Date
	KERR-MCGEE CORPORATION	KMSAUGGM	See Below	

Parameters	Units	TRIPBLANK 970121 BT1616							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9							
Ethylbenzene	ug/l	< 1							
Toluene	ug/l	< 1							
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	-							
Phenol	ug/l	-							
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	-							
Acenaphthylene	ug/l	-							
Anthracene	ug/l	-							
Benzo(a)anthracene	ug/l	-							
Benzo(a)pyrene	ug/l	-							
Benzo(b)fluoranthene	ug/l	-							
Benzo(ghi)perylene	ug/l	-							
Benzo(k)fluoranthene	ug/l	-							
Chrysene	ug/l	-							
Dibenzo(a,h)anthracene	ug/l	-							
Fluoranthene	ug/l	-							
Fluorene	ug/l	-							
Indeno(1,2,3-c,d)pyrene	ug/l	-							
Naphthalene	ug/l	-							
Phenanthrene	ug/l	-							
Pyrene	ug/l	-							
Miscellaneous Parameters									
m+p-Cresols	ug/l	-							
m+p-Xylenes	ug/l	< 2							
o-Cresol	ug/l	-							
o-Xylene	ug/l	< 2							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG410	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG410 950725 BJZ702	MAG410 960123 BNZ202	MAG410 960722 BQV802	MAG410 970121 BTI602				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	< 1	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG209	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG209 950725 BJZ703	MAG209 960123 BNZ203	MAG209 960722 BQV803	MAG209 970121 BTI603				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	< 1	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	2.57	< 2	< 2				
Phenanthrene	ug/l	< 6	< 5	< 6	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG409	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG409 950726 BJZ704	MAG409 960123 BNZ204	MAG409 960722 BQV804	MAG409 970121 BTI604				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .28	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	20.2	17.4	21.5	19.9				
Acenaphthylene	ug/l	< 3.50	< 4	J .59	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	6.93	4.90	6.60	7.04				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	< 6				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

DATE: 02/14/9
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAGDUP	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAGDUP 950726 BJZ705	MAGDUP 960123 BNZ205	MAGDUP 960722 BQV805	MAGDUP 970121 BTI605				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .25	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	21.5	22.2	< 2	406				
Acenaphthylene	ug/l	< 3.54	< 4	< 4	J 2.1				
Anthracene	ug/l	< 2	< 2	< 2	8.51				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	42.1				
Fluorene	ug/l	7.53	7.39	< 2	254				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	J .50	< 2				
Phenanthrene	ug/l	< 5	< 5	< 6	225				
Pyrene	ug/l	< 2	< 2	< 2	24.7				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	Sample Point	See Below Date
	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG412	

Parameters	Units	MAG412 950726 BJZ706	MAG412 960124 BNZ206	MAG412 960723 BQV806	MAG412 970121 BTI606				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .21	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 6				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace U=BMDL(Value Reported), <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

DATE: 02/14/9
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Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	Sample Point	See Below Date
	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG108	

Parameters	Units	MAG108 950726 BJZ707	MAG108 960124 BNZ207	MAG108 960723 BQV807	MAG108 970121 BTI607				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .27	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	128	109	236	456				
Acenaphthylene	ug/l	J 1.0	< 4	J 1.1	J 2.3				
Anthracene	ug/l	4.33	3.06	3.98	8.83				
Benzo(a)anthracene	ug/l	< 8	J 3.7	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	J 2.2	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	23.7	23.2	38.7	38.4				
Fluorene	ug/l	69.0	41.6	105	260				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	107	54.5	209	< 2				
Phenanthrene	ug/l	74.9	41.0	114	222				
Pyrene	ug/l	14.1	14.6	23.8	22.4				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG208	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	MAG208 950726 BJZ708	MAG208 960124 BNZ208	MAG208 960723 BQV808	MAG208 970121 BTI608				
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1.44	< 1	< 1	< 1				
Toluene	ug/l	J .44	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	J .63	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	J .36	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG408	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	MAG408 950726 BJZ709	MAG408 960124 BNZ209	MAG408 960723 BQV809	MAG408 970121 BTI609				
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	6.90	3.53	5.02	3.00				
Ethylbenzene	ug/l	< 1.44	< 1	< 1	< 1.44				
Toluene	ug/l	7.11	5.66	7.08	4.99				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4				
Phenol	ug/l	< 2	< 2	< 2	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4				
Anthracene	ug/l	< 2	< 2	< 2	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3				
Chrysene	ug/l	< 3	< 3	< 3	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3				
Fluoranthene	ug/l	< 2	< 2	< 2	< 2				
Fluorene	ug/l	< 2	< 2	< 2	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5				
Naphthalene	ug/l	< 2	< 2	< 2	< 2				
Phenanthrene	ug/l	< 5	< 5	< 5	< 5				
Pyrene	ug/l	< 2	< 2	< 2	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 10	< 10				
m+p-Xylenes	ug/l	J .70	J .81	J .77	J .70				
o-Cresol	ug/l	< 10	< 10	< 10	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG404	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG404 950726 BJZ710	MAG404 960123 BNZ210	MAG404 960722 BQV810	MAG404 970121 BTI610				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< .9	< .9	< .9	< .9				
Ethylbenzene	ug/l	< 1	< 1	< 1	< 1				
Toluene	ug/l	J .30	< 1	< 1	< 1				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 4	< 4	< 400	< 4				
Phenol	ug/l	< 2	< 2	< 200	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	468	< 2				
Acenaphthylene	ug/l	< 4	< 4	< 400	< 4				
Anthracene	ug/l	< 2	< 2	< 200	< 2				
Benzo(a)anthracene	ug/l	< 8	< 8	< 800	< 8				
Benzo(a)pyrene	ug/l	< 3	< 3	< 300	< 3				
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 500	< 5				
Benzo(ghi)perylene	ug/l	< 4	< 4	< 400	< 4				
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 300	< 3				
Chrysene	ug/l	< 3	< 3	< 300	< 3				
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 300	< 3				
Fluoranthene	ug/l	< 2	< 2	< 200	< 2				
Fluorene	ug/l	< 2	< 2	J 170	< 2				
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 500	< 5				
Naphthalene	ug/l	< 2	< 2	13100	< 2				
Phenanthrene	ug/l	< 5	< 6	< 600	< 6				
Pyrene	ug/l	< 2	< 2	< 200	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 10	< 10	< 1000	< 10				
m+p-Xylenes	ug/l	< 2	< 2	< 2	< 2				
o-Cresol	ug/l	< 10	< 10	< 1000	< 10				
o-Xylene	ug/l	< 2	< 2	< 2	< 2				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

CORE

DATA MANAGEMENT SUMMARY REPORT
(DM-OH) - History of All Parameters Tested, Selected Sample Point

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	KERR-MCGEE CORPORATION	KMSAUGGWM	MAG411	See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

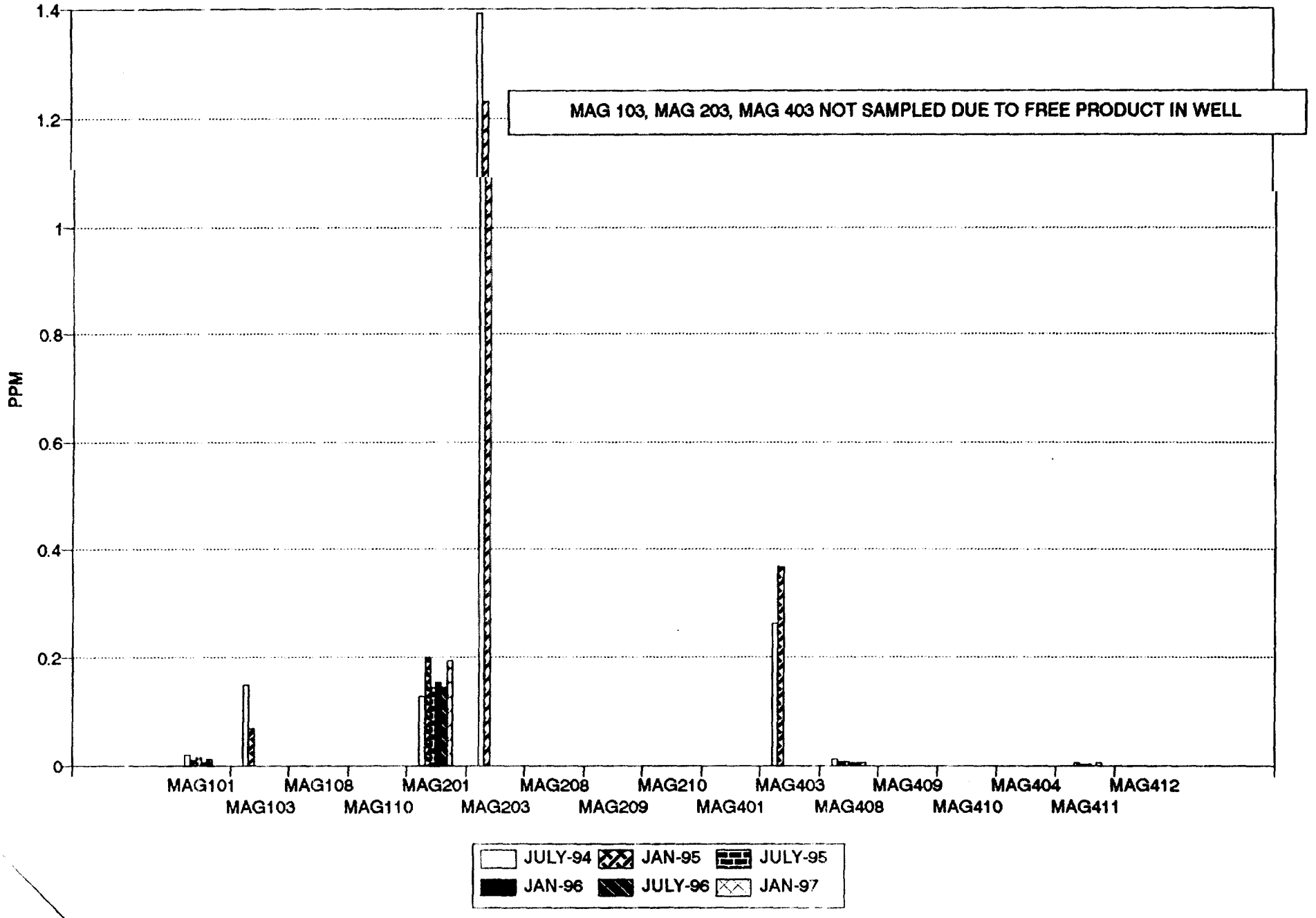
Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		MAG411 950726 BJZ711	MAG411 960123 BNZ211	MAG411 960722 BQVB11	MAG411 970121 BTI611				
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	J 2.3	1.81	< 20	J 3.0				
Ethylbenzene	ug/l	311	310	370	279				
Toluene	ug/l	320	184	140	138				
Priority Poll. Acids GC/MS									
Pentachlorophenol	ug/l	< 40	< 700	< 400	< 4				
Phenol	ug/l	< 20	< 300	< 200	< 2				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	515	394	470	330				
Acenaphthylene	ug/l	J 8.0	< 700	< 400	4.83				
Anthracene	ug/l	J 5.6	< 400	< 200	3.14				
Benzo(a)anthracene	ug/l	< 80	< 2000	< 800	< 8				
Benzo(a)pyrene	ug/l	< 30	< 500	< 300	< 3				
Benzo(b)fluoranthene	ug/l	< 50	< 1000	< 500	< 5				
Benzo(ghi)perylene	ug/l	< 40	< 800	< 400	< 4				
Benzo(k)fluoranthene	ug/l	< 30	< 500	< 300	< 3				
Chrysene	ug/l	< 30	< 500	< 300	< 3				
Dibenzo(a,h)anthracene	ug/l	< 30	< 500	< 300	< 3				
Fluoranthene	ug/l	< 20	< 400	< 200	< 2				
Fluorene	ug/l	278	J 140	J 180	145				
Indeno(1,2,3-c,d)pyrene	ug/l	< 50	< 900	< 500	< 5				
Naphthalene	ug/l	10100	11700	13300	4810				
Phenanthrene	ug/l	116	< 1000	< 600	69.1				
Pyrene	ug/l	< 20	< 400	< 200	< 2				
Miscellaneous Parameters									
m+p-Cresols	ug/l	< 100	< 2000	< 1000	< 10				
m+p-Xylenes	ug/l	306	192	160	148				
o-Cresol	ug/l	< 100	< 2000	< 1000	< 10				
o-Xylene	ug/l	220	201	230	202				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested TR=Trace J=BMDL(Value Reported) <=ND(MDL Reported)

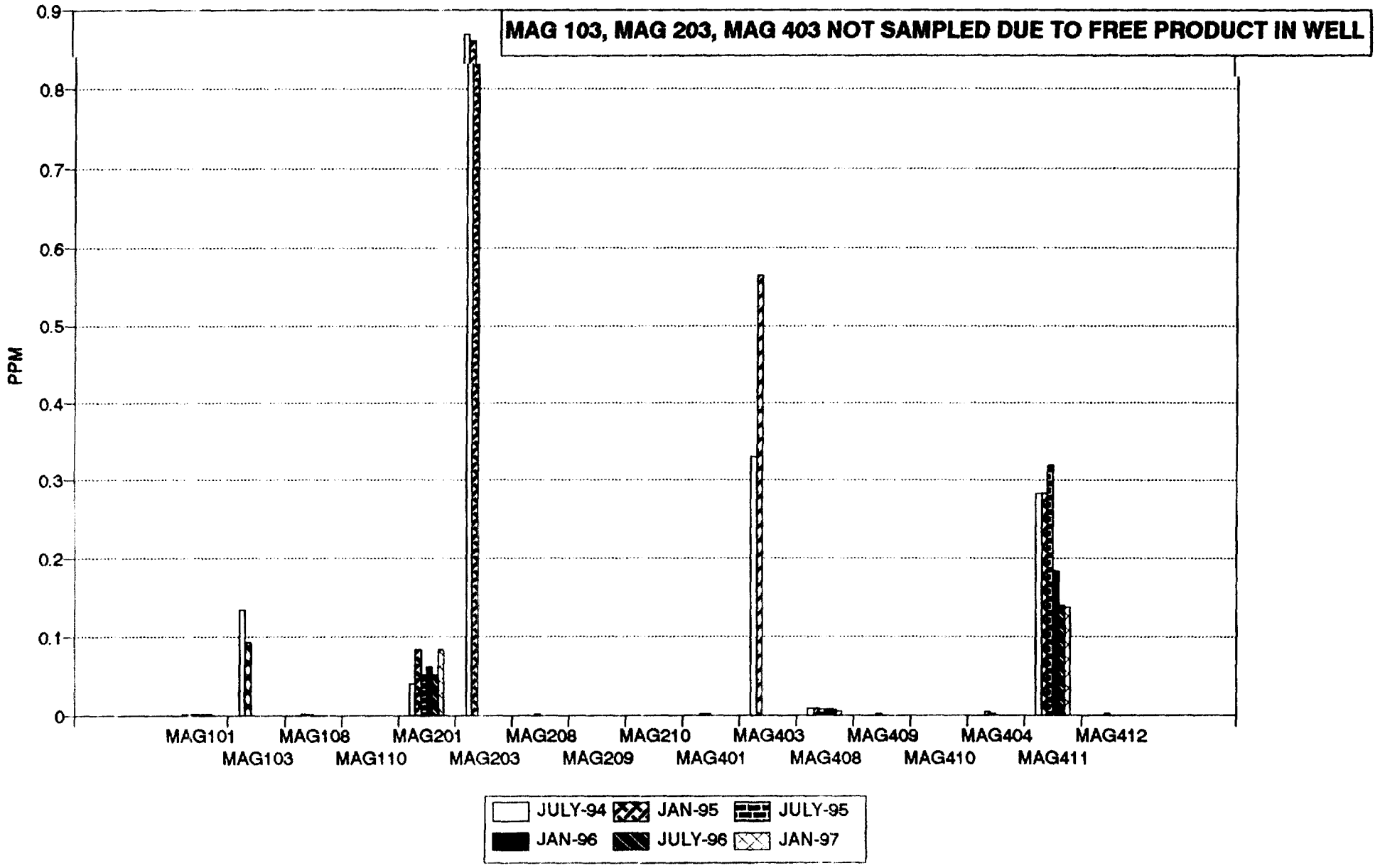
ATTACHMENT - IV

ANALYTICAL TREND GRAPHS

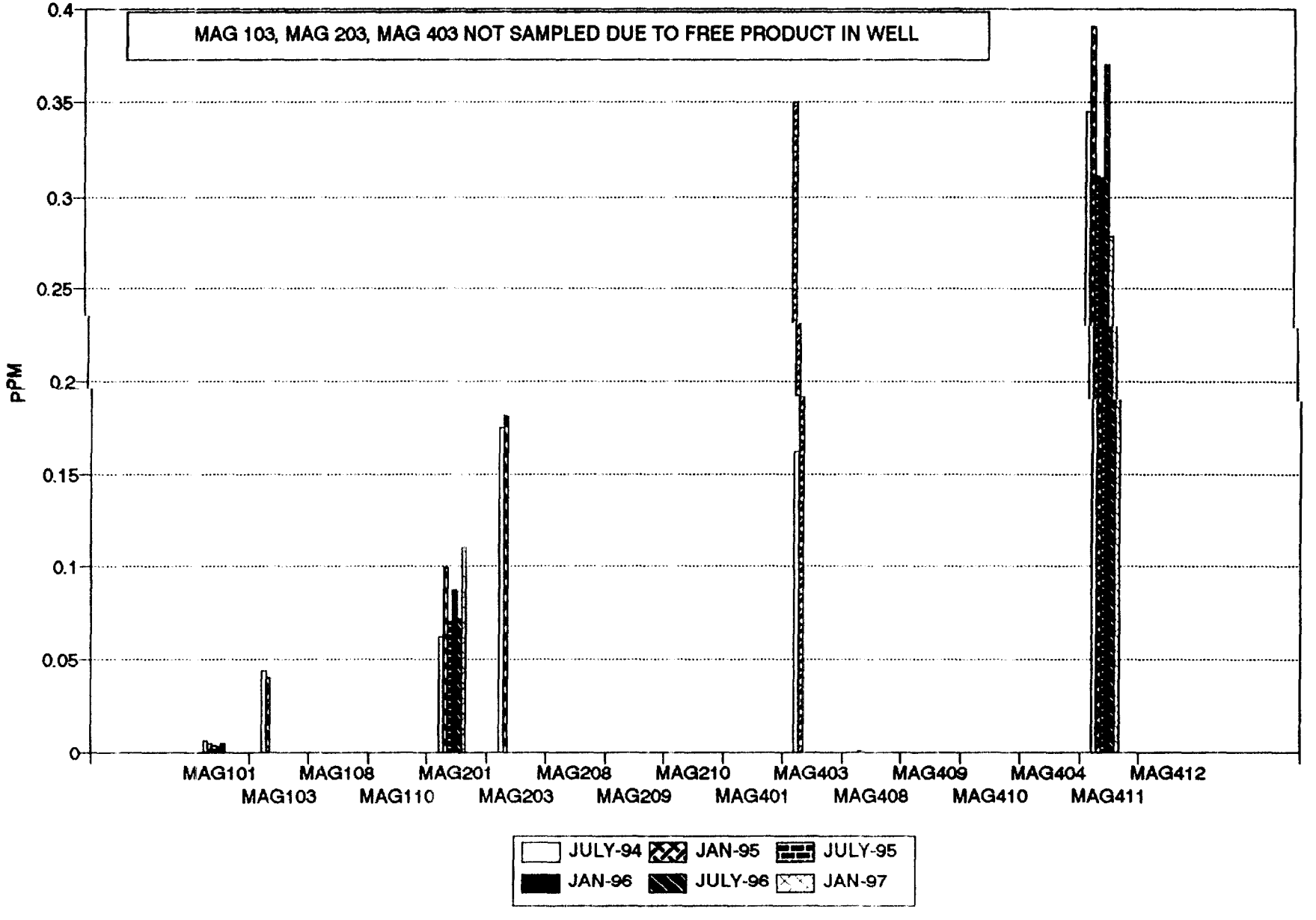
SAUGET, ILLINOIS
BENZENE



SAUGET, ILLINOIS
TOLUENE



SAUGET, ILLINOIS
ETHYLBENZENE



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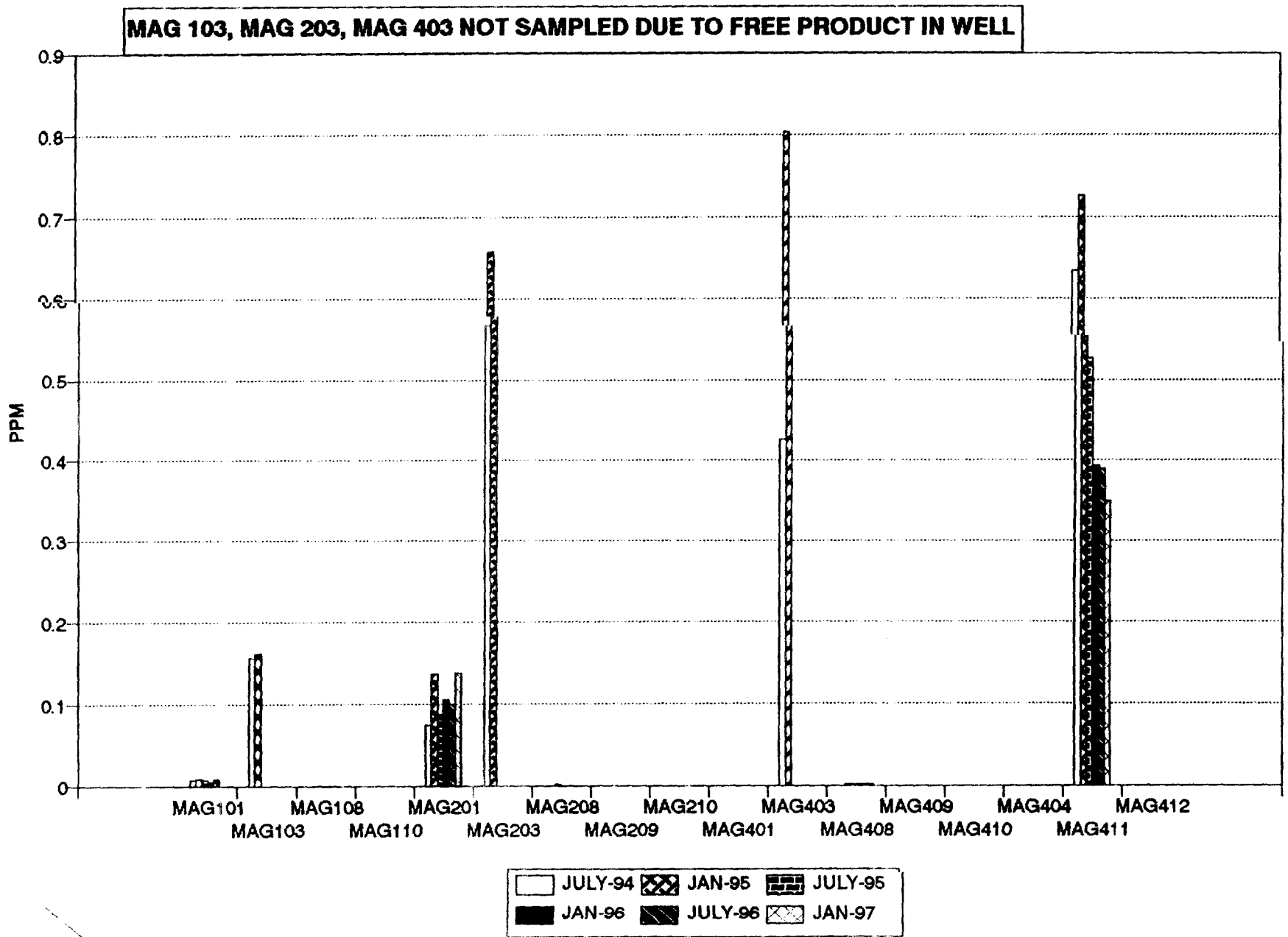
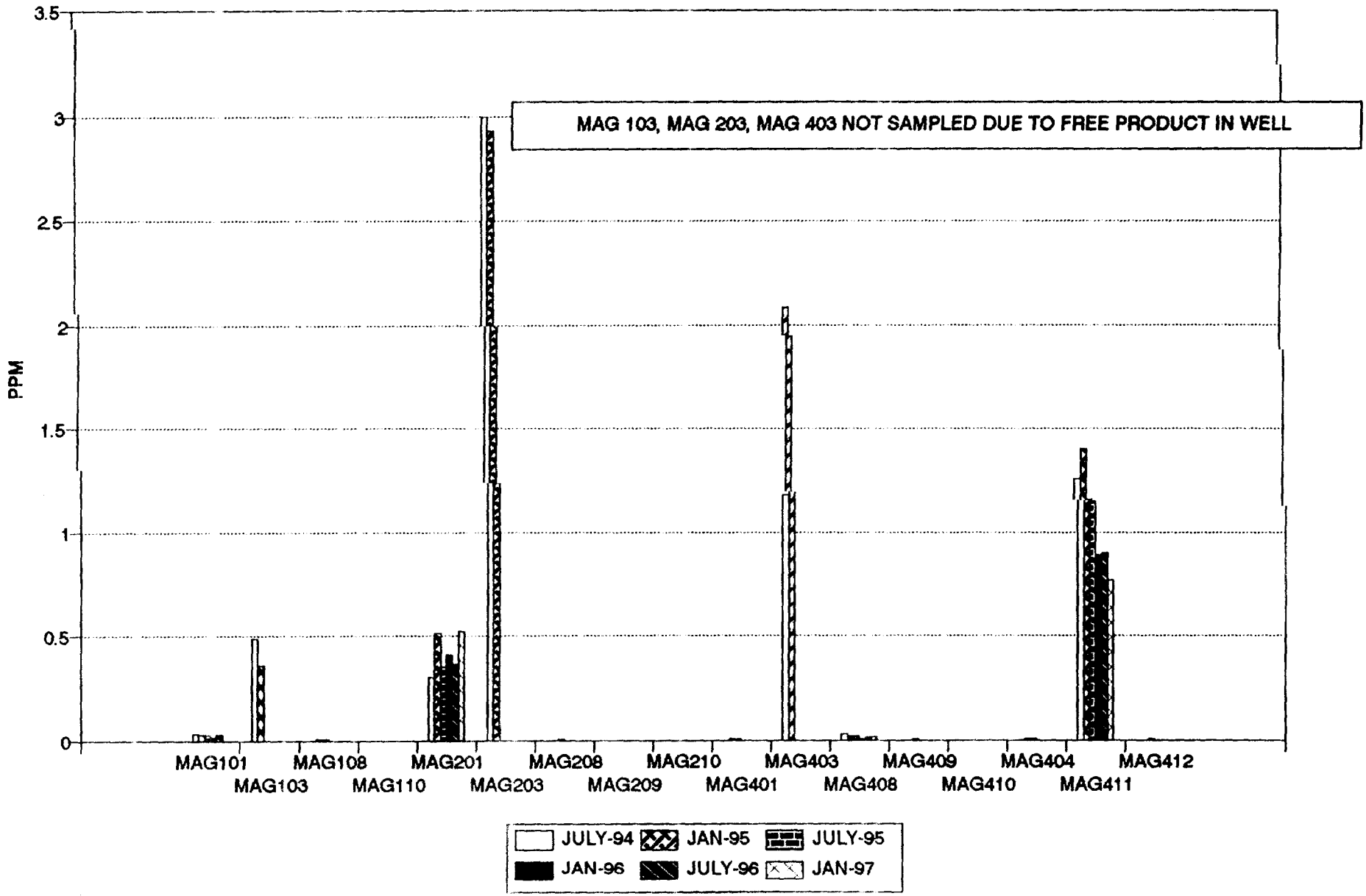
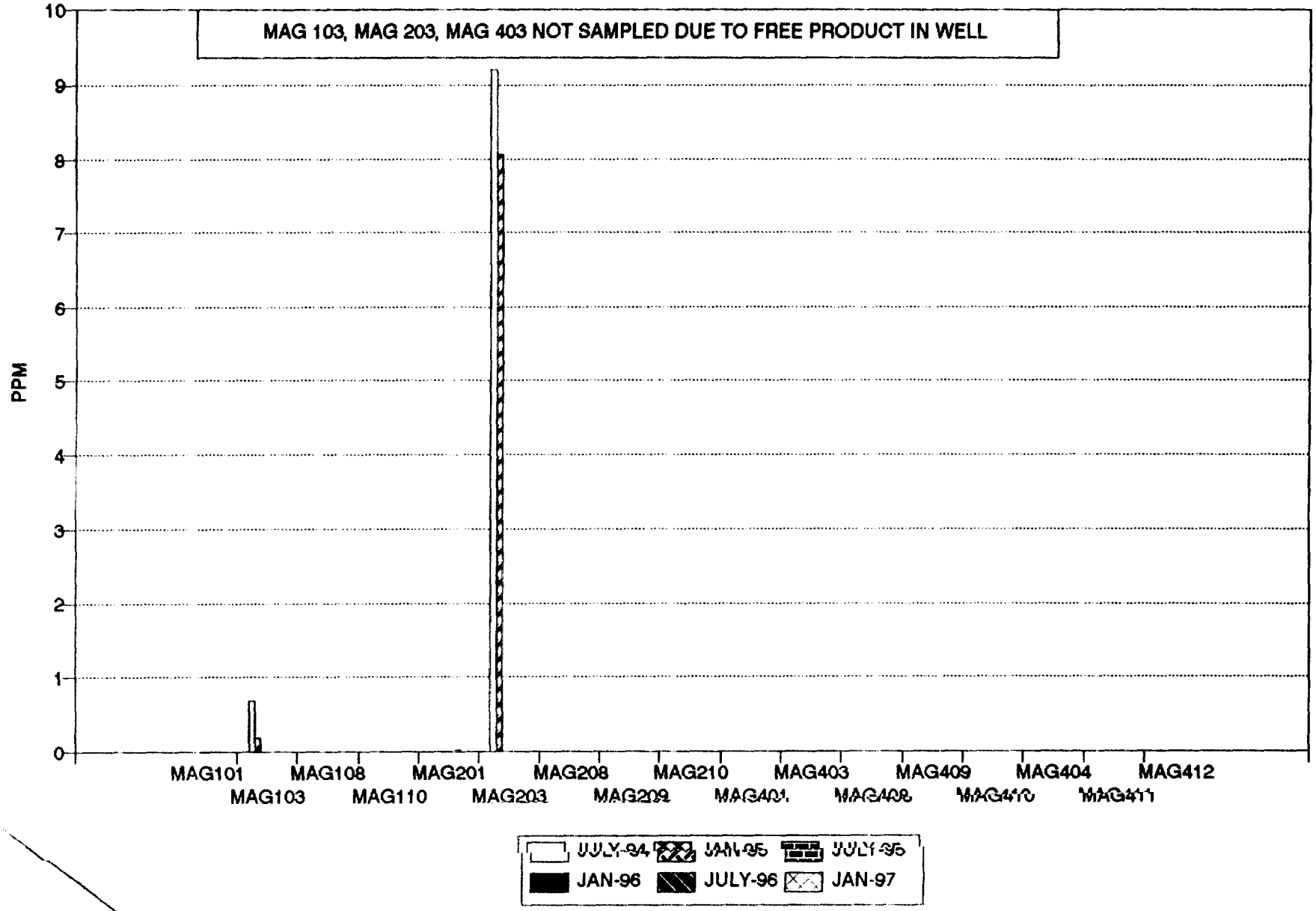
XYLENES



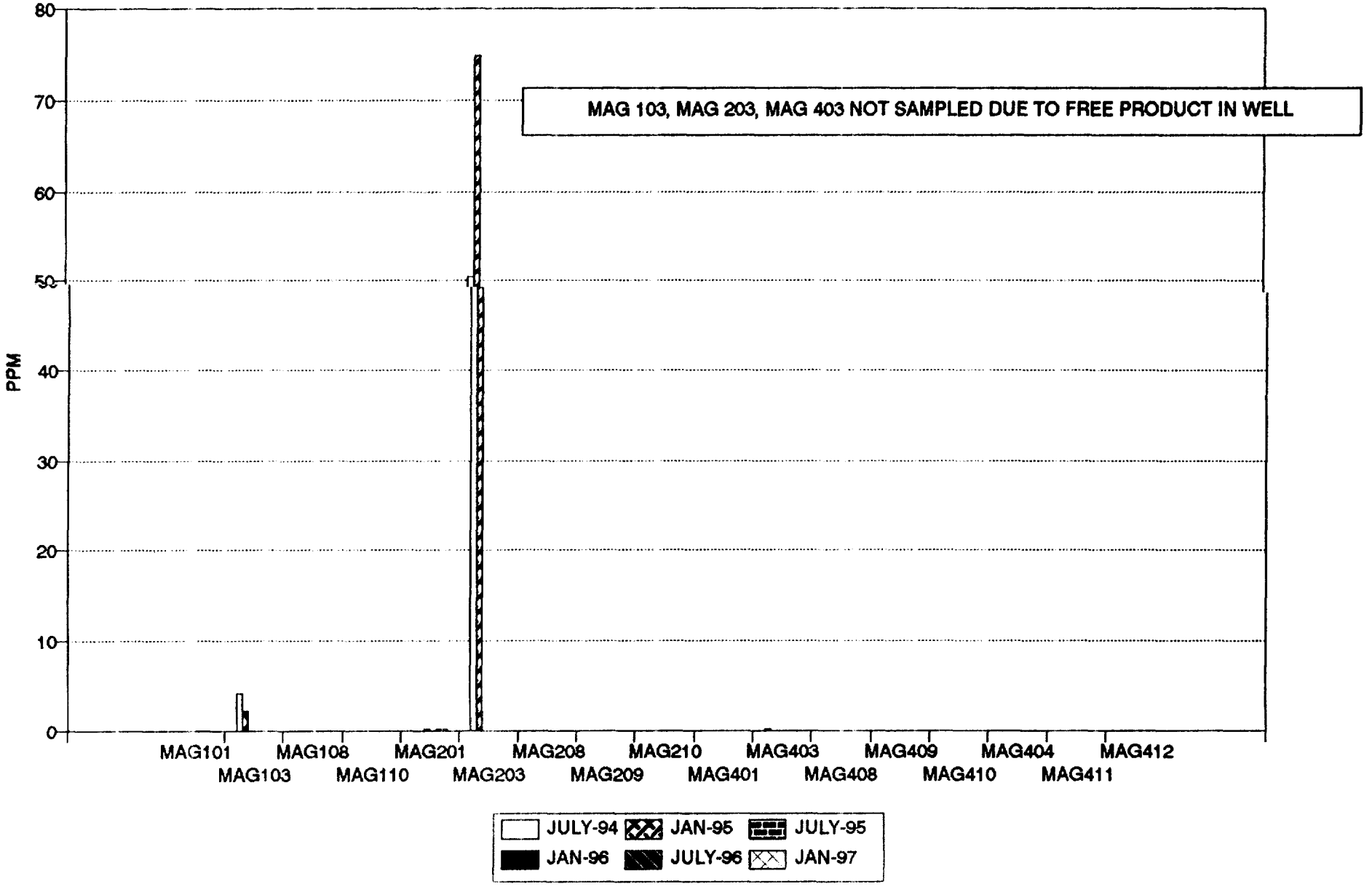
SAUGET, ILLINOIS
BTEX



SAUGET, ILLINOIS
PHENOL



SAUGET, ILLINOIS
CRESOLS



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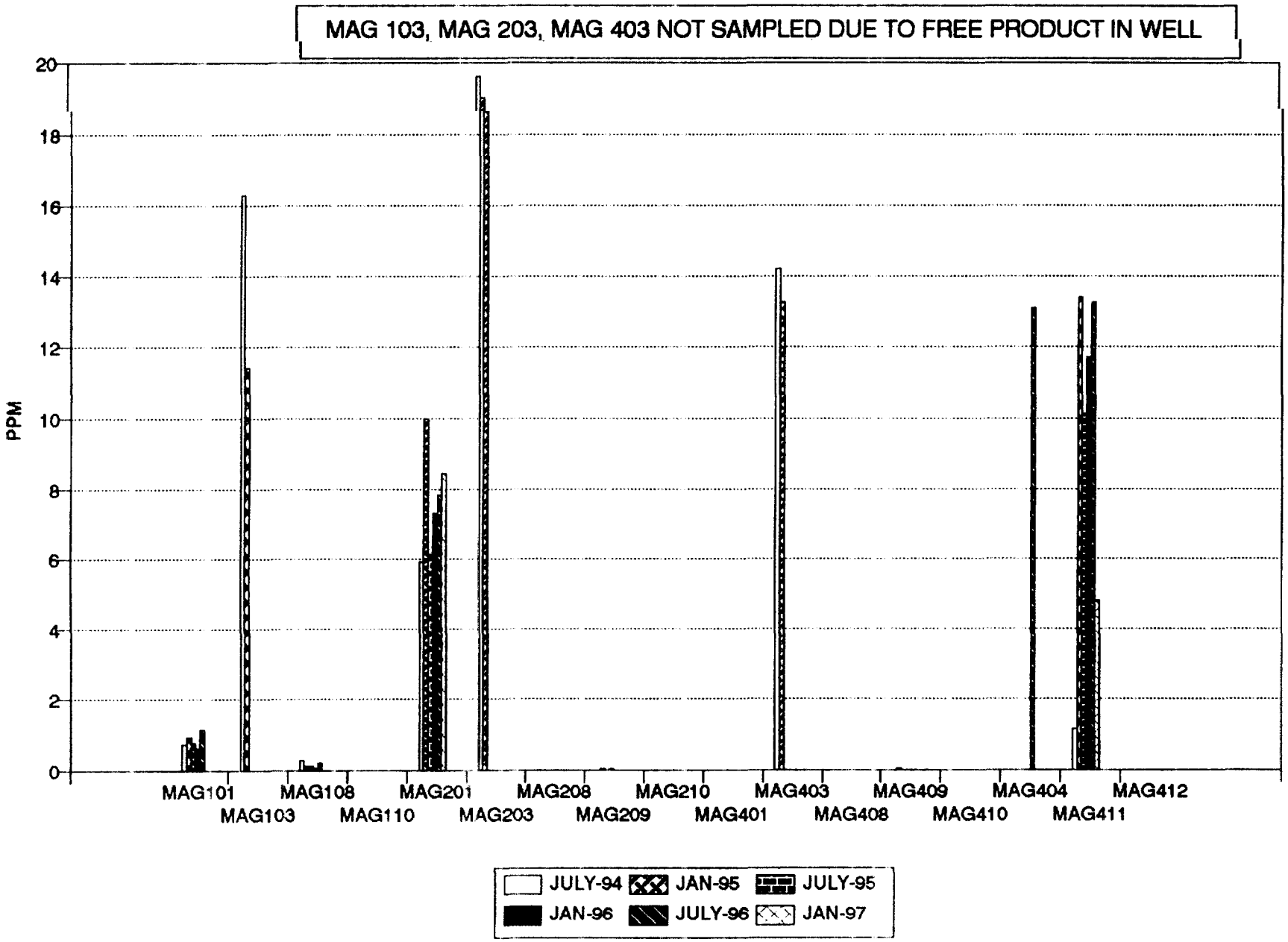
NAPHTHALENE



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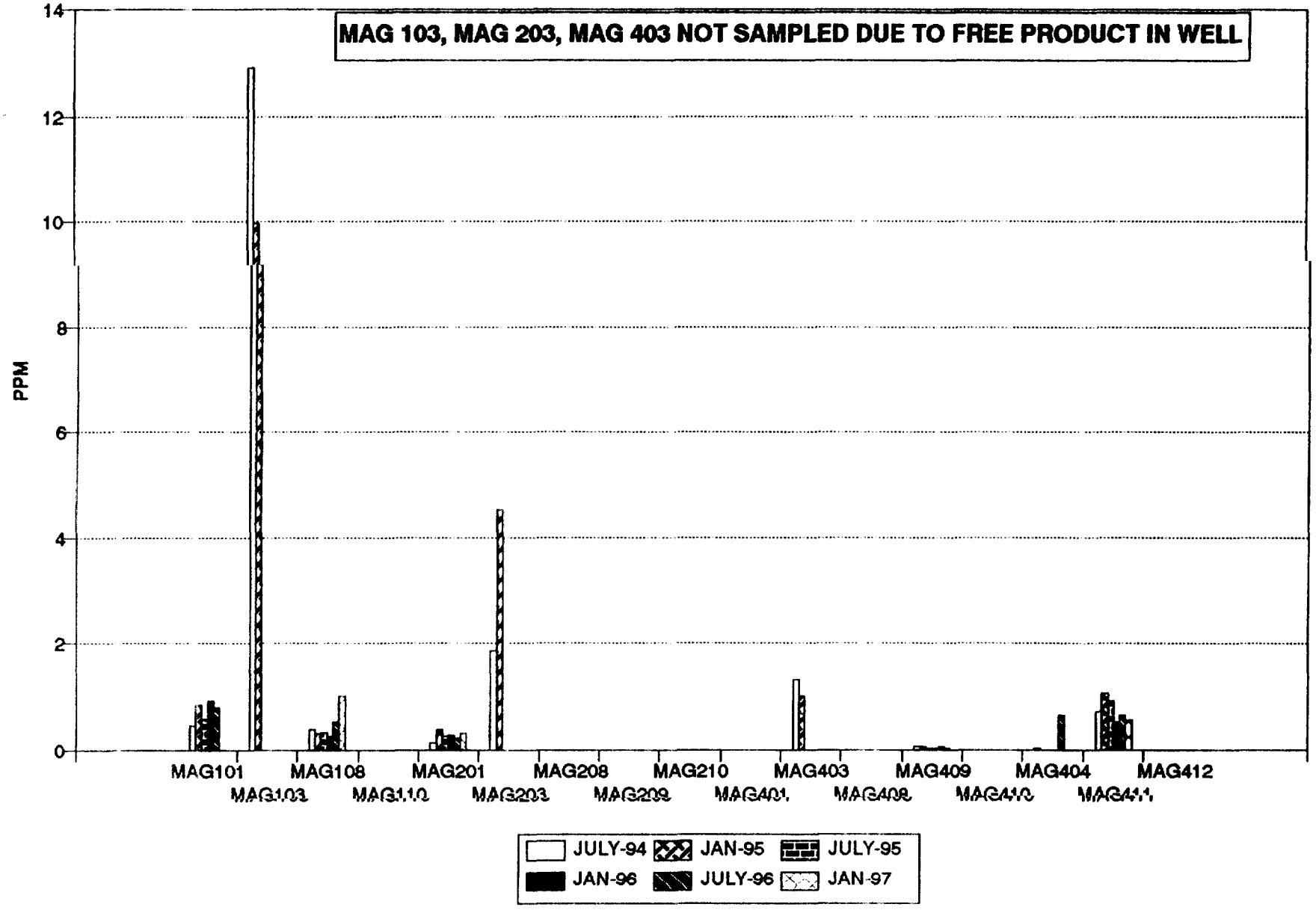
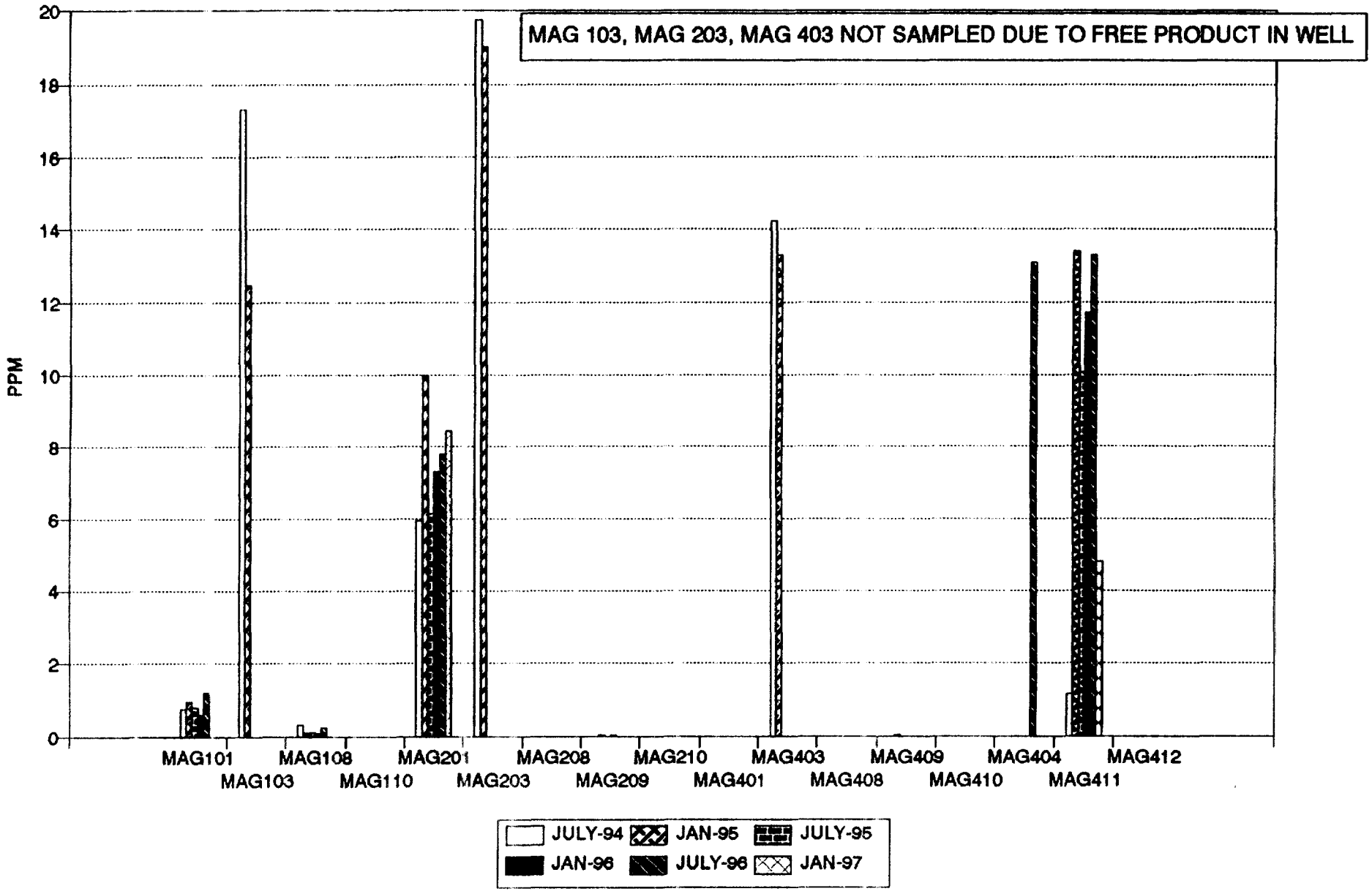
TNCPAH



SAUGET, ILLINOIS
TCPAH