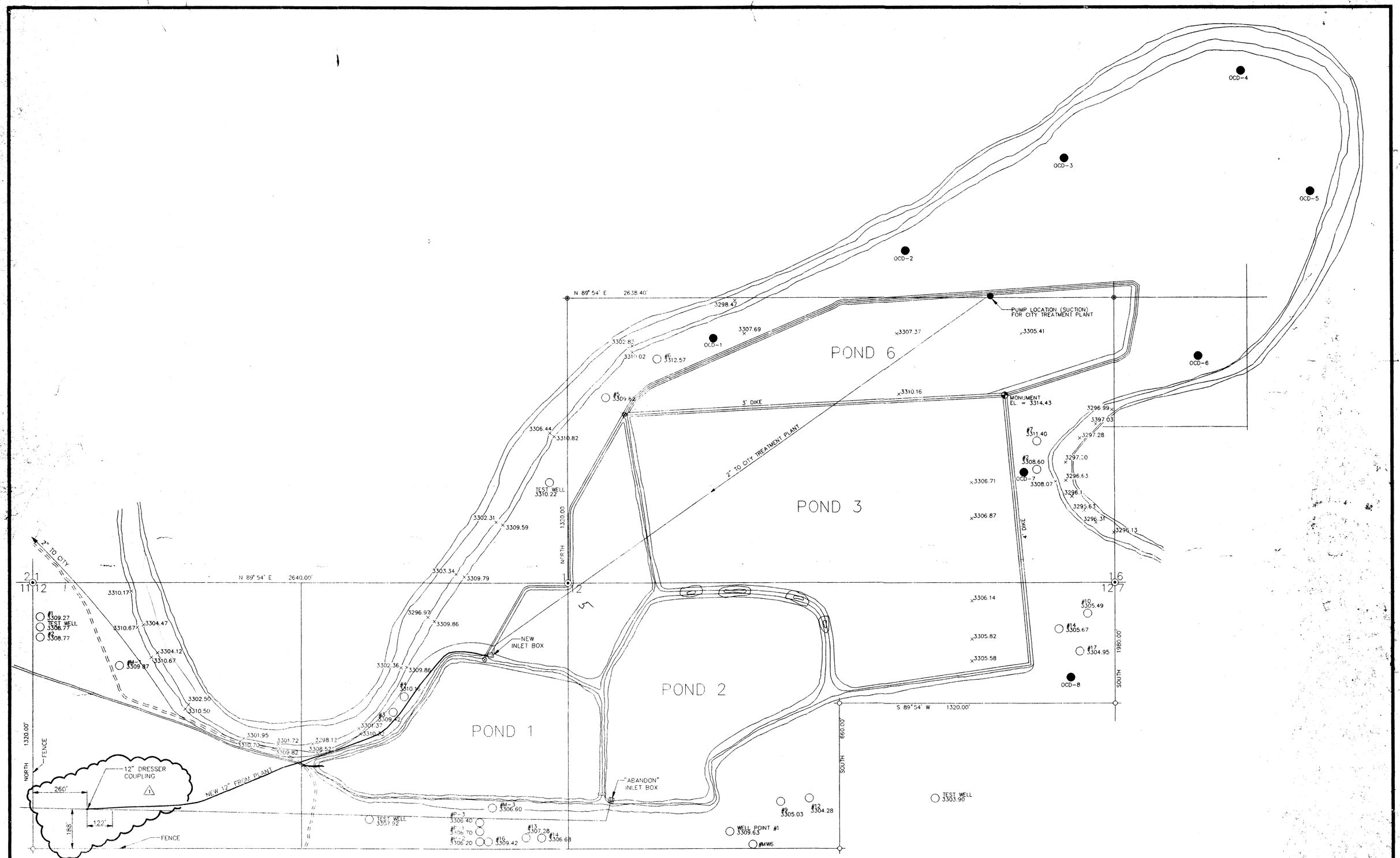
GW - 28

REPORTS

YEAR(S):

2002-2001



NOTES

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	CLOSED POND #2	PETE	NRL	5-7-94	NRL	

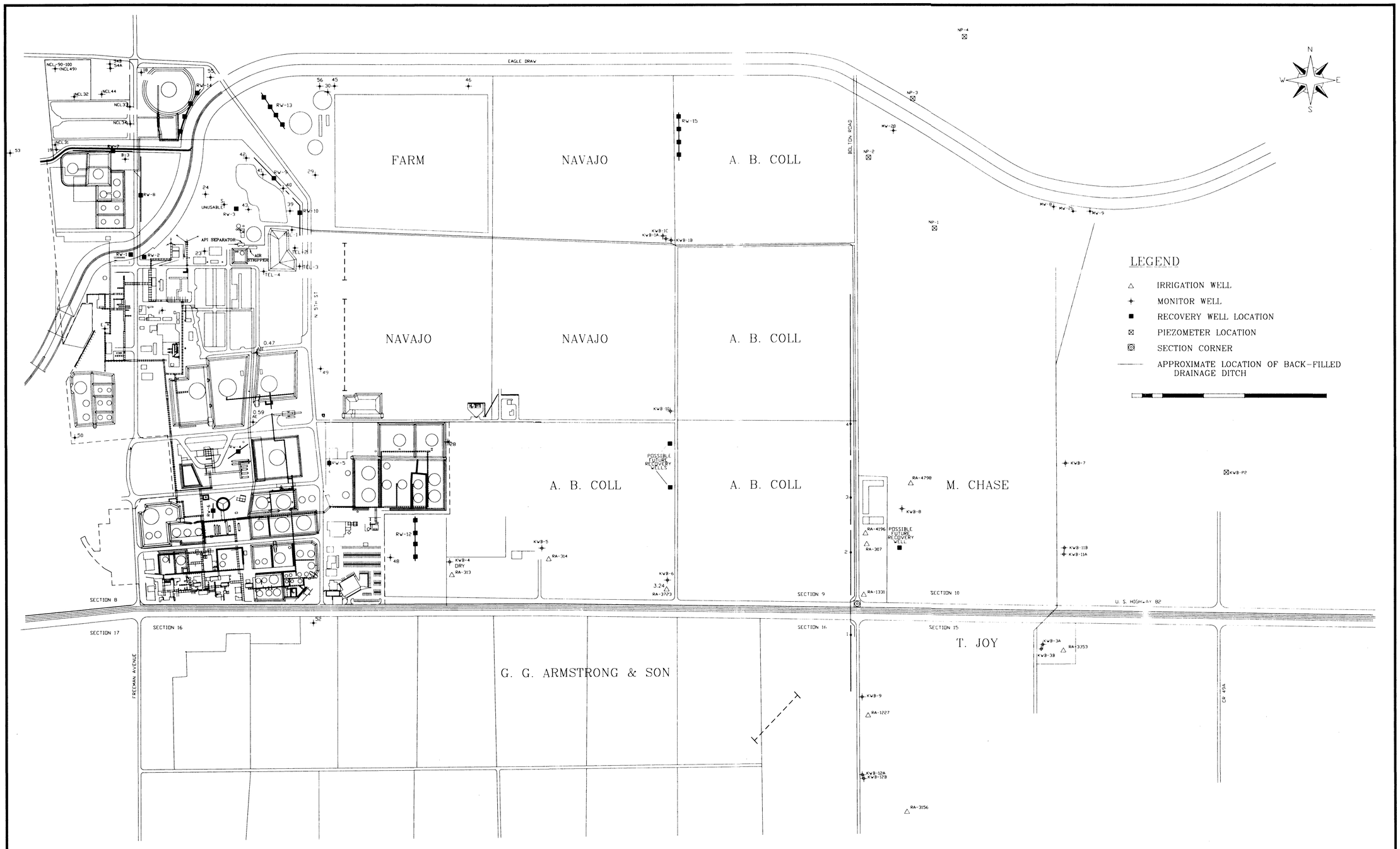
DRAWING TITLE

LOCATION OF PONDS

LAYOUT

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
PETE	N R LEWIS	1" = 200'	
DATE	APPR BY	DRAWING NUMBER	REV.
8-93	N R LEWIS	90-25-D-3	1



NOTES

TRENCHES ————

POSSIBLE FUTURE TRENCHES - - - - - - - - - -

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
17	2001 READINGS	DEC	DGJ	02/25/02	DGM	DGJ
16	2000 READINGS	BHR	DGM	02/26/01	DGM	
15	'95-'99 READINGS	LGR	DGM	02/27/00	DGM	DGJ
14	SEPT. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
13	JUN. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
10	SEPT. 1998 READINGS	LGR	DGM	02/26/99	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	02/26/99	DGM	DGJ

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
8	MAR. 1998 READINGS	LGR	DGM	02/25/98	DGM	DGJ
7	JAN. 1998 READINGS	LGR	DGM	02/18/98	DGM	DGJ
6	OCT. 1996 READINGS	DLW	DGJ	10/28/96	DGM	DGJ
5	AUGUST, 1996 READINGS	DLW	DGJ	9/11/96	DGM	DGJ
4	MAY, 1996 READINGS	DLW	DGJ	5/14/96	DGM	DGJ
3	JANUARY, 1996 READINGS	DLW	DGJ	01 15 96	DGM	DGJ
2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-11-95	DGM	DGJ
1	JUNE, 1995 READINGS	PETE	DGJ	7-18-95	DGM	ILS
0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	3-27-95	DGM	ILS

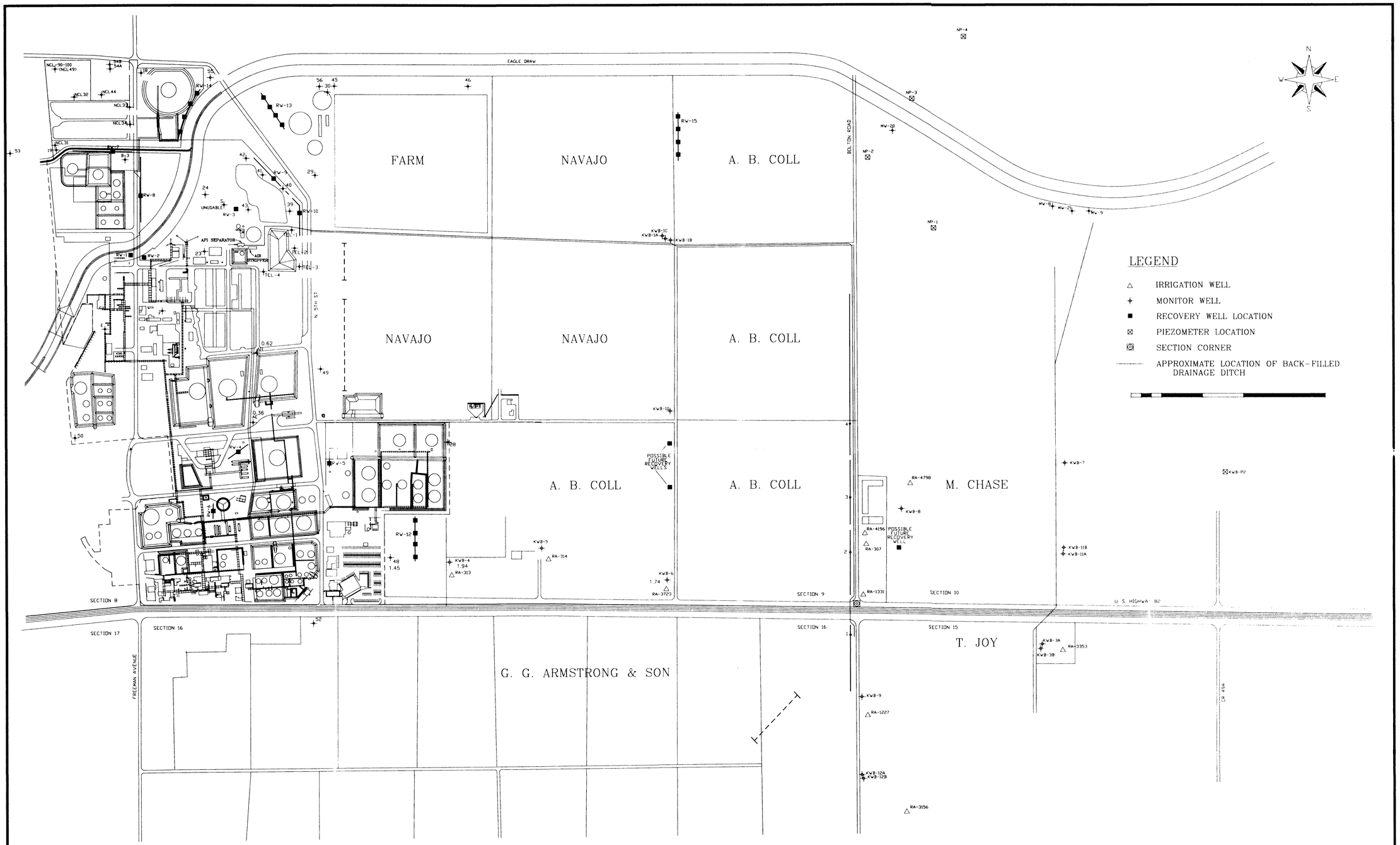
DRAWING TITLE

PRODUCT THICKNESS MAP
NAVAJO REFINING
1995

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
DLW	DGM	AS SHOWN	
DATE	APPR BY	DRAWING NUMBER	REV.
3-17-95	ILS	90-45-D	17

FEB 26 2002



NOTES

TRENCHES ————

POSSIBLE FUTURE TRENCHES - - - - - - - - - - -

REFERENCE DRAWINGS

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15	'95-'99 READINGS	LGR	DGM	02/27/00	DGM	DGJ
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13	JUN. 1999 READINGS	LGR	DGM	02/25/00	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	02/25/00	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	02/25/00	DGM	DGJ
10	SEPT. 1998 READINGS	LGR	DGM	02/25/99	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	02/25/99	DGM	DGJ
8	MAR. 1998 READINGS	LGR	DGM	02/25/98	DGM	DGJ
7	JAN. 1998 READINGS	LGR	DGM	02/18/98	DGM	DGJ
6	OCT. '96 - 1996 READINGS	DLW	DGJ	12/29/96	DGM	DGJ
5	AUGUST, 1996 READINGS	DLW	DGJ	9/11/96	DGM	DGJ
4	MAY, 1996 READINGS	DLW	DGJ	05/14/96	DGM	DGJ
3	JANUARY, 1996 READINGS	DLW	DGJ	01-10-96	DGM	DGJ
2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-11-95	DGM	DGJ
1	JUNE, 1995 READINGS	PETE	DGJ	7-18-95	DGM	DGJ
0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	3-31-95	DGM	DGJ

DRAWING TITLE

PRODUCT THICKNESS MAP
NAVAJO REFINING
PND 2

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE
DLW	DGM	AS SHOWN
DATE	APPR BY	DRAWING NUMBER / REV
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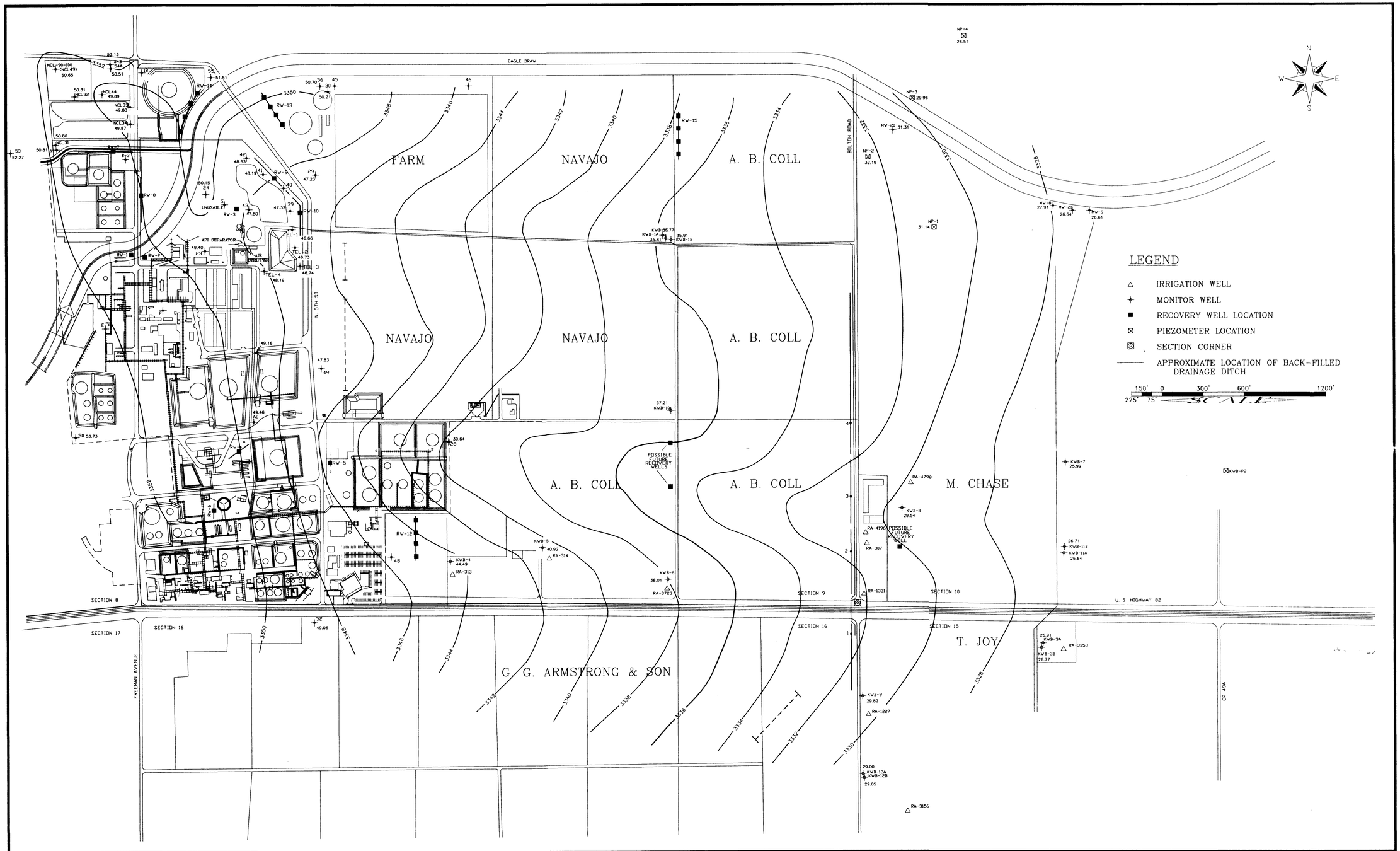
LETTER DEC 18, 1996 NMOCD (4 WELLS)

FEB 26 2002



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TRENCHES ————

POSSIBLE FUTURE TRENCHES - - - - - - - - - -

REFERENCE DRAWINGS

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15	2000 READINGS	BHR	DGM	12/21/00	DGM		7	JAN. 1998 READINGS	LGR	DGM	12/28/99	DGM	DGJ
14	SEPT. 1999 READINGS	LGR	DGM	12/28/99	DGM	DGJ	6	OCT. , 1996 READINGS	DLW	DGJ	10/28/96	DGM	DGJ
13	JUN. 1999 READINGS	LGR	DGM	12/25/99	DGM	DGJ	5	AUGUST, 1996 READINGS	DLW	DGJ	09/11/96	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	12/24/99	DGM	DGJ	4	MAY, 1996 READINGS	DLW	DGJ	05/14/96	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	12/23/99	DGM	DGJ	3	JANUARY, 1996 READINGS	DLW	DGJ	01-15-96	DGM	DGJ
10	SEPT 1998 READINGS	LGR	DGM	12/20/99	DGM	DGJ	2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-7-95	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	12/23/99	DGM	DGJ	1	JUNE, 1995 READINGS	PETE	DGJ	7-13-95	DGM	ILS
							0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	5-27-95	DGM	ILS

DRAWING TITLE

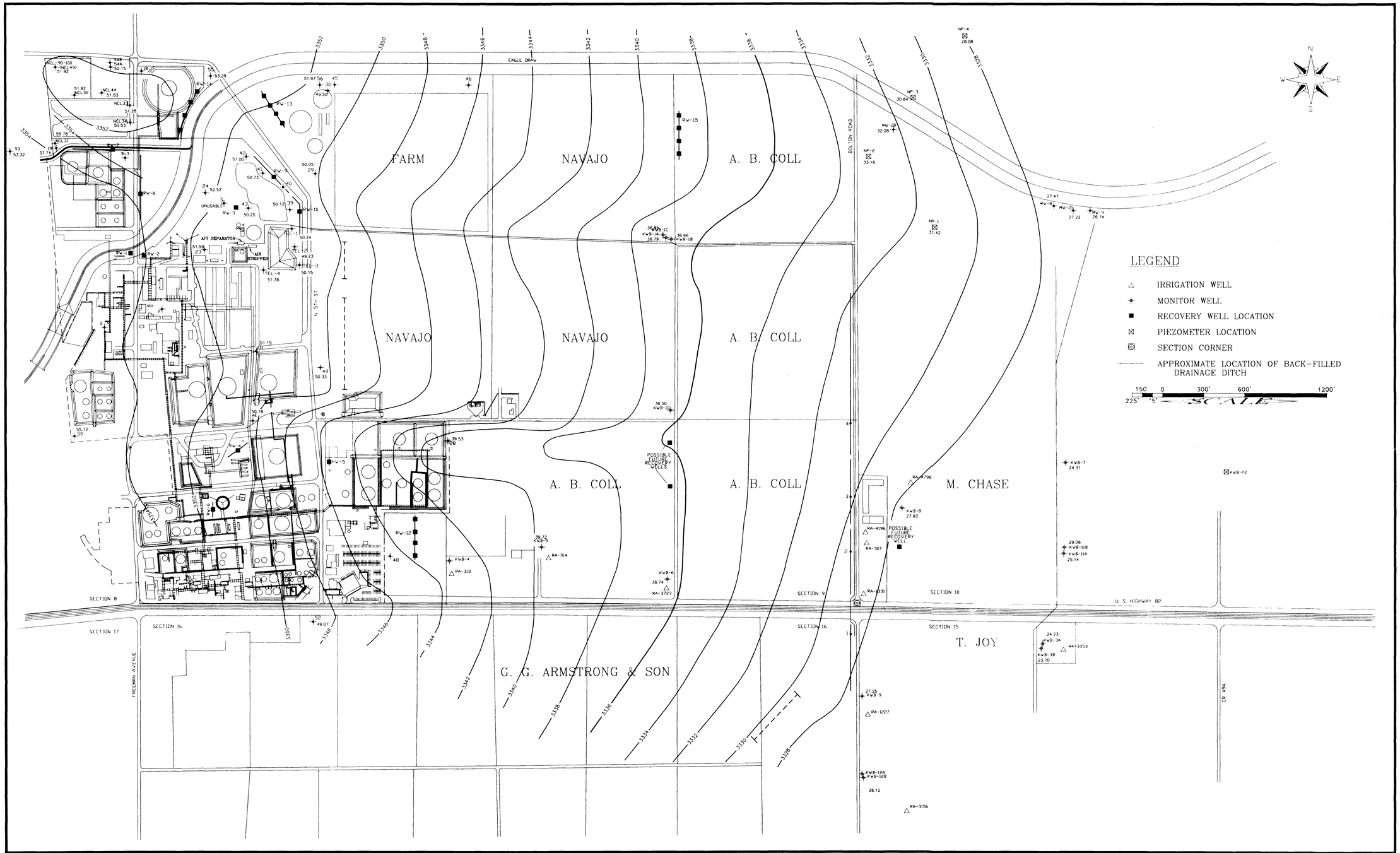
GROUNDWATER POTENTIOMETRIC MAP NAVAJO REFINING

4TH QTR

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
DLW	DGM	AS SHOWN	
DATE	APPR BY	DRAWING NUMBER	REV.
3-17-95	ILS	90-44-D	16

FEB 26 2002



NOTES

TRENCHES ————

POSSIBLE FUTURE TRENCHES - - - - - - - - - -

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
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14	SEPT. 1999 READINGS	LGR	DGM	2/25/00	DGM	DGJ
13	JUN. 1999 READINGS	LGR	DGM	2/25/00	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	2/24/00	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	2/23/00	DGM	DGJ
10	SEPT. 1998 READINGS	LGR	DGM	2/25/99	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	2/25/99	DGM	DGJ

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
8	MAR. 1998 READINGS	LGR	DGM	2/24/99	DGM	DGJ
7	JAN. 1998 READINGS	LGR	DGM	2/25/99	DGM	DGJ
6	OCT. 1996 READINGS	DLW	DGJ	10/25/96	DGM	DGJ
5	AUGUST, 1996 READINGS	DLW	DGJ	10/11/96	DGM	DGJ
4	MAY, 1996 READINGS	DLW	DGJ	10/14/96	DGM	DGJ
3	JANUARY, 1996 READINGS	DLW	DGJ	11-11-96	DGM	DGJ
2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-7-95	DGM	DGJ
1	JUNE, 1995 READINGS	PETE	DGJ	7-13-95	DGM	ILS
0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	3-27-95	DGM	ILS

DRAWING TITLE

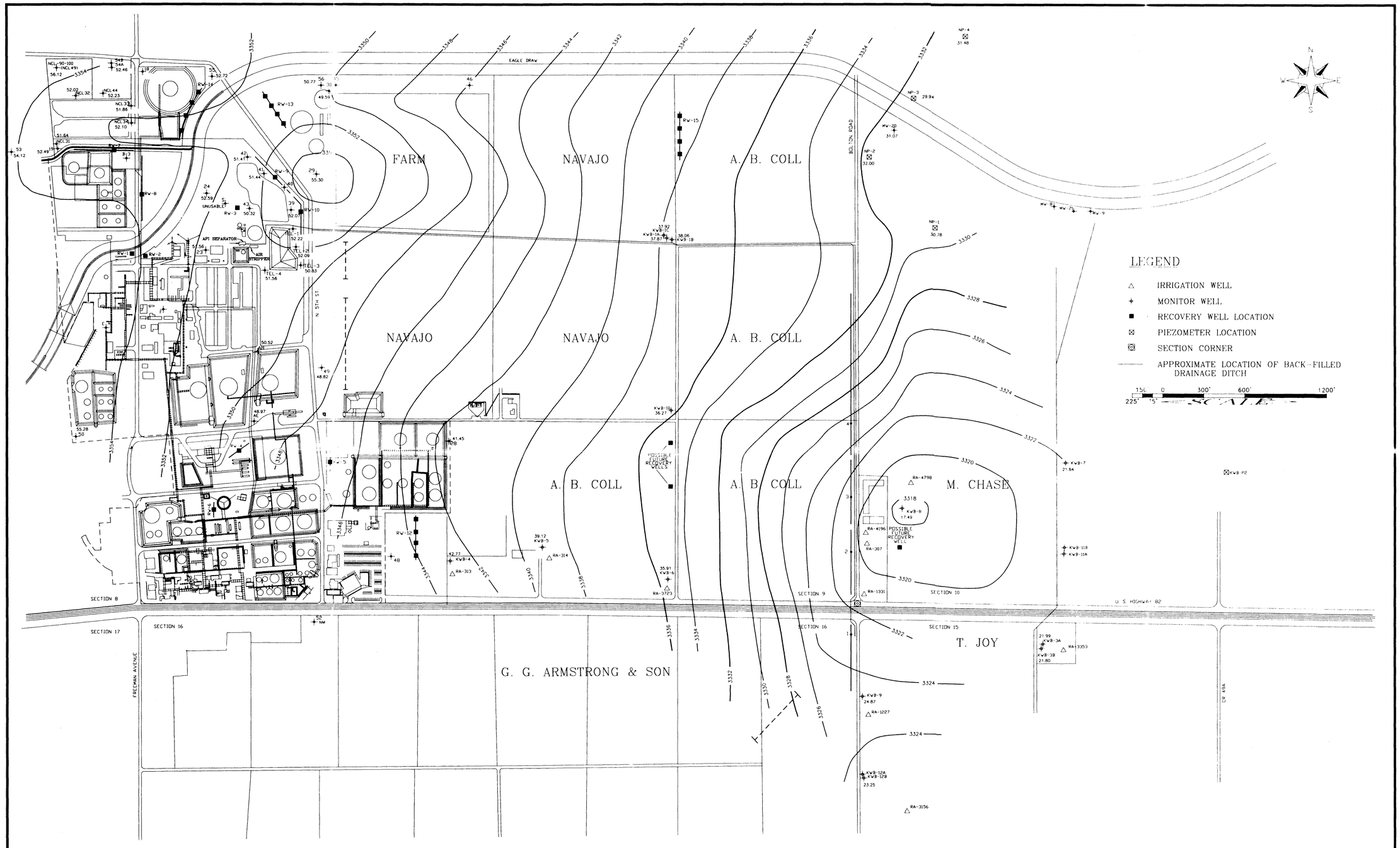
GROUNDWATER POTENTIOMETRIC MAP NAVAJO REFINING

MAY 95

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
DLW	DGM	AS SHOWN	
DATE	APPR BY	DRAWING NUMBER	REV
8-17-95	ILS	80 44 D	16

FEB 26 2002



NOTES

TRENCHES ————————

POSSIBLE FUTURE TRENCHES - - - - - - - - - -

REFERENCE DRAWINGS

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14	SEPT. 1999 READINGS	LGR	DGM	12/28/00	DGM	DGJ
13	JUN. 1999 READINGS	LGR	DGM	12/25/00	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	12/24/00	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	12/23/00	DGM	DGJ
10	SEPT. 1998 READINGS	LGR	DGM	12/26/99	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	12/25/99	DGM	DGJ

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
8	MAR. 1998 READINGS	LGR	DGM	12/24/99	DGM	DGJ
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6	OCT., 1996 READINGS	DLW	DGJ	10/28/96	DGM	DGJ
5	AUGUST, 1996 READINGS	DLW	DGJ	09/11/96	DGM	DGJ
4	MAY, 1996 READINGS	DLW	DGJ	05/14/96	DGM	DGJ
3	JANUARY, 1996 READINGS	DLW	DGJ	01-11-96	DGM	DGJ
2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-7-95	DGM	DGJ
1	JUNE, 1995 READINGS	PETE	DGJ	7-13-95	DGM	ILS
0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	3-27-95	DGM	ILS

DRAWING TITLE

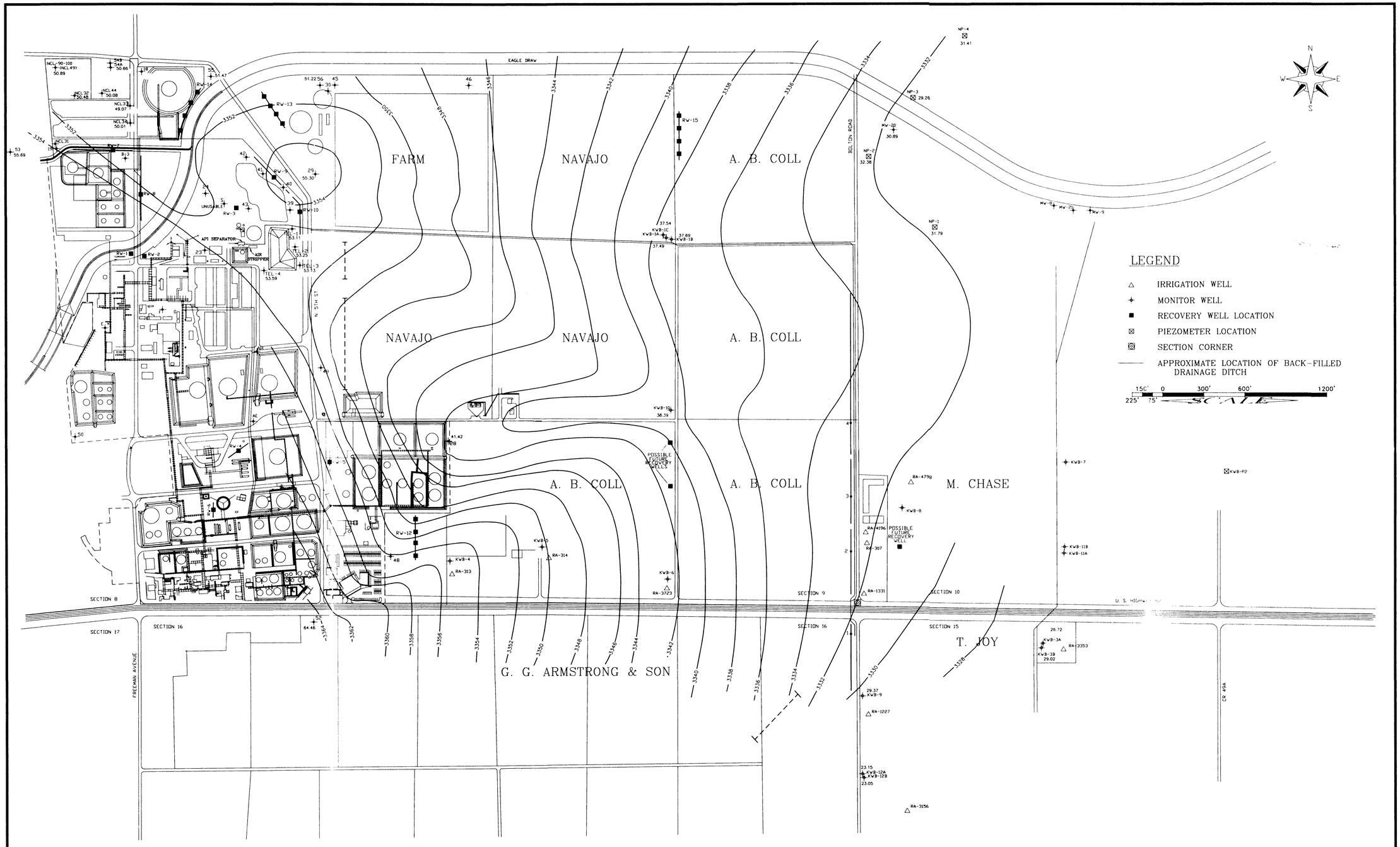
GROUNDWATER POTENTIOMETRIC MAP NAVAJO REFINING

2ND QTR

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
DLW	DGM	AS SHOWN	
DATE	APPR BY	DRAWING NUMBER	REV.
3-17-95	ILS	90-44-D	16

FEB 26 2002



NOTES

TRENCHES ————

POSSIBLE FUTURE TRENCHES - - - - - - - - - -

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK	DATE	APPR	APPR
16	2001 READINGS	DEC	DGJ	2/21/02	DGM	DGJ
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14	SEPT. 1999 READINGS	LGR	DGM	2/28/00	DGM	DGJ
13	JUN. 1999 READINGS	LGR	DGM	2/25/99	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	2/24/99	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	2/23/99	DGM	DGJ
10	SEPT. 1998 READINGS	LGR	DGM	2/26/99	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	2/25/99	DGM	DGJ
8	MAR. 1998 READINGS	LGR	DGM	2/24/99	DGM	DGJ
7	JAN. 1998 READINGS	LGR	DGM	2/23/99	DGM	DGJ
6	OCT., 1996 READINGS	DLW	DGJ	10/28/96	DGM	DGJ
5	AUGUST, 1996 READINGS	DLW	DGJ	09/11/96	DGM	DGJ
4	MAY, 1996 READINGS	DLW	DGJ	05/14/96	DGM	DGJ
3	JANUARY, 1996 READINGS	DLW	DGJ	01-11-96	DGM	DGJ
2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-7-95	DGM	DGJ
1	JUNE, 1995 READINGS	PETE	DGJ	7-13-95	DGM	ILS
0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	5-27-95	DGM	ILS

DRAWING TITLE

GROUND WATER POTENTIOMETRIC MAP
NAVAJO REFINING
3RD Q.

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
DLW	DGM	AS SHOWN	
DATE	APPR BY	DRAWING NUMBER	REV.
3-17-95	ILS	90-44-D	16

FEB 26 2002

REFINING COMPANY

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXECUTIVE
(505) 746-5421 ENGINEERING
(505) 746-5480 P / L

March 1, 2002

RECEIVED

MAR 27 2002

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Mr. Bill Olson
Hydrogeologist
Environmental Bureau
Oil Conservation Division
1220 S. St. Francis
Santa Fe, NM 87505

RE: 2001 Annual Ground Water and Treatment System Monitoring Report

Dear Bill,

The referenced report is enclosed. It consists of the following:

- Four groundwater potentiometric maps
- Three product thickness maps(one set is missing due to lost data)
- Graphs depicting elevation and thickness vs. time
- Table showing hits on wells
- The analysis from monitor, residential, and irrigation wells relating to this report

Per your agency's letter of June 14, 1996, the reporting frequency of this report was changed from quarterly to yearly.

For 2001, Navajo recovered approximately 115,900 gallons of product and pumped 11,325,000 gallons of water. These numbers are just best guesses due to the fact that we had air getting into our system (pumps were pumping air) for several months undetected causing our meters to register faulty numbers. All water that is recovered from the trenches is sent to our wastewater system, treated, and then sent to our injection wells for disposal. Product is brought back to the plant and is eventually introduced back into the refinery for reprocessing.

ECOVERY
ELLS

Wells #1 and #2 on Bolton Road were dry for the entire year, therefore, there are no readings for those two. Also, Wells # 7, #9, and #10 were shut down for the year due to the fact that there is no product in these areas.

In the water analysis spreadsheet, which shows hits in the offsite wells, you will notice that we continue to see hits of BTEX and MTBE in monitor wells east of Bolton Road. These include NP-1, NP-2, KWB-7, KWB-8, KWB-11, and KWB-3. The recovery wells

along Bolton Road were cited with the knowledge that some of the plume had passed this line. Therefore, the presence of BTEX in these wells is no surprise. Also, we show small hits of MTBE (in the 1 to 2 ppb range) in RA-3156 and RA-4798. These are irrigation wells and we have seen these small hits of MTBE in various irrigation wells throughout the course of this project. They never seem to exceed much over 2 ppb.

The area around the Tetra-ethyl Lead Impoundment and the North Colony Landfarm are almost devoid of any free phase product. The recovery trenches have done an excellent job in these areas.

The recovery program has been a success. We are seeing less and less free phase product and are considering installing passive skimmers in some of the monitor wells that still show thin zones of free product. If there are any questions concerning this submission, please call me at 505-748-3311.

Sincerely,
NAVAJO REFINING COMPANY

Darrell Moore

Darrell Moore
Environmental Manager for Water and Waste

Encl.

2001

SECOND QUARTER GROUNDWATER ANALYTCAL TABLE

Constituent	RA 4196	RA 4798	RA3156	RA 4798	Larue Well	KWB-1A	KWB-1C	KWB-2R	KWB-3A	KWB-9	RA 3353	NP-1	WP-2	MW-18	MW-45	29.00	28.00
(µg/L)	6/28/01	6/28/01	7/17/01	7/17/01	7/17/01	7/19/01	7/19/01	7/19/01	7/19/01	7/19/01	7/19/01	7/31/01	7/31/01	7/31/01	7/31/01	7/31/01	7/31/01
Acetone	BSDL	BSDL	BSDL	BSDL	**18259'**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Iodomethane	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**6.23'**	**6.00'**	BSDL	BSDL	**263'**
Carbon Disulfide	**3.50**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**7.65**	BSDL
2-Butanone	BSDL	BSDL	BSDL	BSDL	**12346**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
MTBE	BSDL	BSDL	**1.19**	**1.01**	BSDL	BSDL	**19.70**	BSDL	BSDL	BSDL	BSDL	**24.70**	**3.55**	BSDL	**7.92**	**1.73**	**3131.00**
1,2-Dichloroethane	BSDL	**2.67**	BSDL	**2.43**	BSDL	BSDL	BSDL	BSDL	BSDL	**2.17**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Benzene	BSDL	BSDL	BSDL	BSDL	BSDL	**22.80**	**3.16**	**2464.00**	**14.50**	**28.90**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**67.20**
Toluene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**1.45**	BSDL	BSDL
Dibromochloromethane	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**1.17**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Ethylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	**7.60**	**1.01**	**668.00**	**5.06**	**9.48**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
m,p-Xylene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**67.30**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Bromoform	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**2.48**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
o-Xylene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**2.59**	BSDL	BSDL
Isopropylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**13.40**	BSDL
n-Propylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**84.50**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
1,2,4-Trimethylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**223.00**	BSDL	1.58	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
sec-Butylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**6.89**	BSDL

Notes:

' Suspected Laboratory Contaminant reported in method blank

BSDL Below Sample Detection Limit

Only wells with analytes above the detection limit noted here.

753-522

THIRD QUARTER GROUNDWATER ANALYTCAL TABLE

Constituent	KWB-2R	KWB-9	KWB-11A	KWB-7	KWB-1A	KWB-1C	NP-2	MW-45	NP-1	MW-28	MW-29
(µg/L)	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01	10/10/01	10/11/01	10/11/01	10/11/01	10/16/01	10/16/01
Carbon Disulfide	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**7.33**	BSDL	BSDL	**1.53**
MTBE	BSDL	BSDL	**5.76**	**9.64**	**1.08**	**21.50**	**4.21**	**7.99**	**25.40**	BSDL	**2.08**
1,2-Dichloroethane	BSDL	**1.62**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Benzene	**1750.00**	BSDL	BSDL	BSDL	BSDL	**1.03**	BSDL	BSDL	BSDL	**114.00**	BSDL
Ethylbenzene	**1410.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
m,p-Xylene	**754.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
o-Xylene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**13.70**	BSDL	BSDL	BSDL
Isopropylbenzene	**106.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**10.40**	BSDL	BSDL	**27.20**
n-Propylbenzene	**259.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
1,3,5-Trimethylbenzene	**155.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
tert-Butylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**1.22**
1,2,4-Trimethylbenzene	**864.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
sec-Butylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**12.70**

Notes:

[1] Suspected Laboratory Contaminant reported in method blank

BSDL Below Sample Detection Limit

Only wells with analytes above the detection limit noted here.

NEW & old

FOURTH QUARTER GROUNDWATER ANALYTCAL TABLE

Constituent	RA 3156	KWB-9	RA 4798	KWB-1A	KWB-1C	KWB-11A	KWB-2R	KWB-7	NP-2	NP-1	MW-45	KWB-13	MW-18
(µg/L)	1/8/2002	1/8/2002	1/8/2002	1/8/2002	1/8/2002	1/10/2002	1/10/2002	1/10/2002	1/10/2002	1/10/2002	1/10/2002	1/10/2002	1/10/2002
Acetone	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**57.8**	BSDL	BSDL
MTBE	**1.04**	BSDL	**2.63**	**22.8**	**42.3**	**11.5**	BSDL	**23.9**	**3.55**	**25**	BSDL	BSDL	BSDL
1,2-Dichloroethane	BSDL	**1.48**	**2.28**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Benzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**39**	**1.86**	BSDL	BSDL	BSDL	**1.04**	**3.93**
Toluene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**1.04**	BSDL
Ethylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**7.8**	BSDL	BSDL	BSDL	BSDL	BSDL	**4.24**
o-Xylene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**12.8**	BSDL	BSDL
Isopropylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**9.75**	BSDL	BSDL
sec-Butylbenzene	BSDL	BSDL	BSDL	**1.64**	**1.27**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL

Notes:

BSDL Below Sample Detection Limit

Only wells with analytes above the detection limit noted here.

NBU
a old

FIRST GUARTER GROUNDWATER ANALYTCAL TABLE

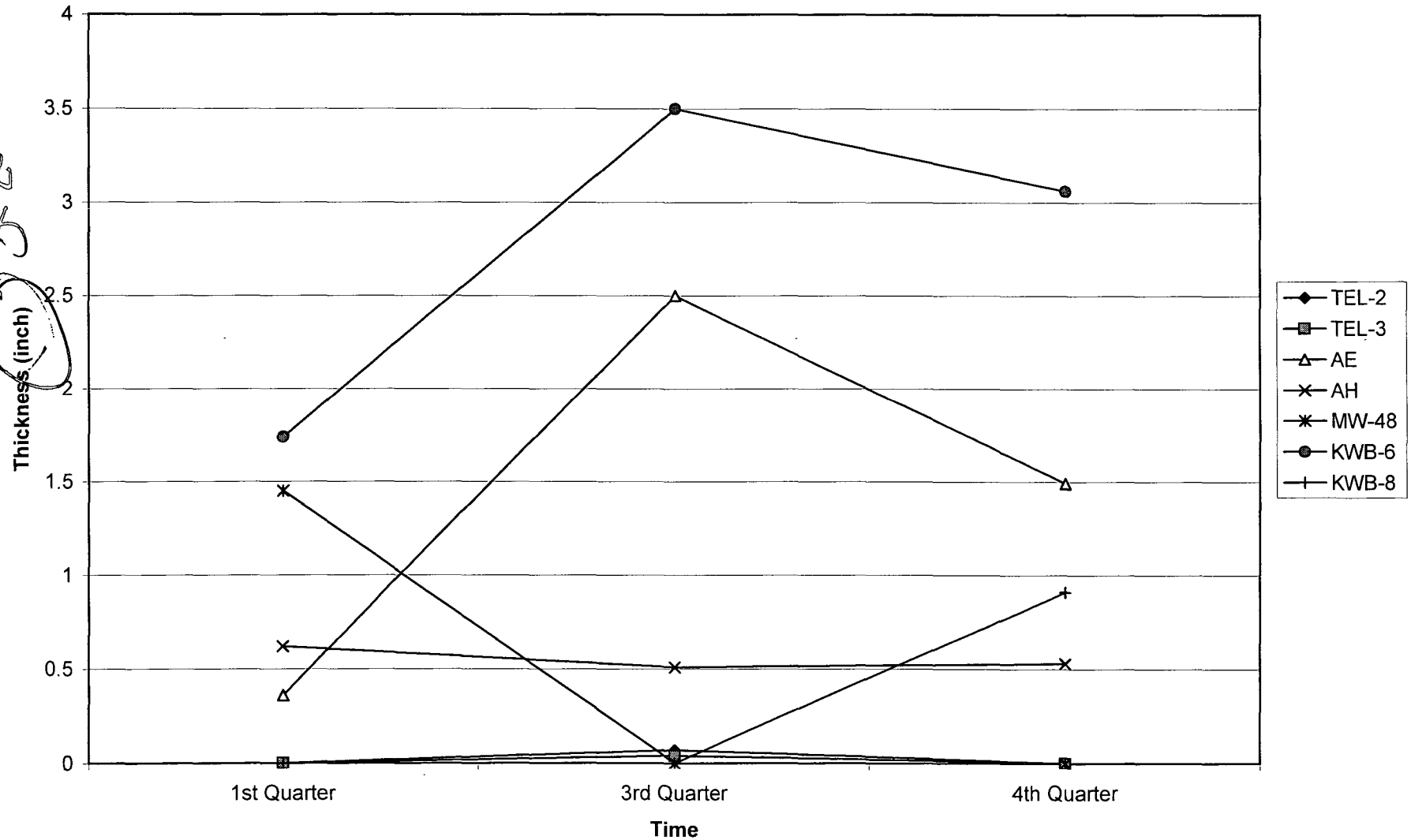
Constituent	MW-28	MW-29	MW-45	MW-18	NP-1	NP-2	KWB-2R	KWB-11A	KWB-7	KWB-3A	KWB-1A	KWB-1C	KWB-9	RA 4798
(µg/L)	4/18/01	4/18/01	4/18/01	4/18/01	4/18/01	4/18/01	4/10/01	4/10/01	4/10/01	4/10/01	4/10/01	4/10/01	4/10/01	5/22/01
Carbon Disulfide	BSDL	**2.43**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
MTBE	**847.00**	BSDL	**5.83**	BSDL	**5.43**	**2.34**	BSDL	**3.14**	**32.50**	BSDL	**18.20**	**22.70**	BSDL	BSDL
1,2-Dichloroethane	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**2.33**
Benzene	**8.10**	BSDL	BSDL	**1.04**	BSDL	**1.45**	**1341.00**	**6.57**	**3.39**	**1.23**	**2.71**	**1.73**	**33.60**	BSDL
Toluene	BSDL	BSDL	**1.64**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Ethylbenzene	BSDL	BSDL	**1.80**	BSDL	BSDL	BSDL	**888.00**	**5.67**	**3.98**	BSDL	**3.15**	**2.30**	**11.70**	BSDL
m,p-Xylene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**61.10**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
o-Xylene	BSDL	BSDL	**6.68**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
Isopropylbenzene	BSDL	**19.50**	BSDL	BSDL	BSDL	BSDL	**70.70**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
n-Propylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**148.00**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL
1,2,4-Trimethylbenzene	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	**434.00**	**1.51**	**1.23**	BSDL	BSDL	BSDL	BSDL	BSDL
sec-Butylbenzene	BSDL	**9.92**	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL	BSDL

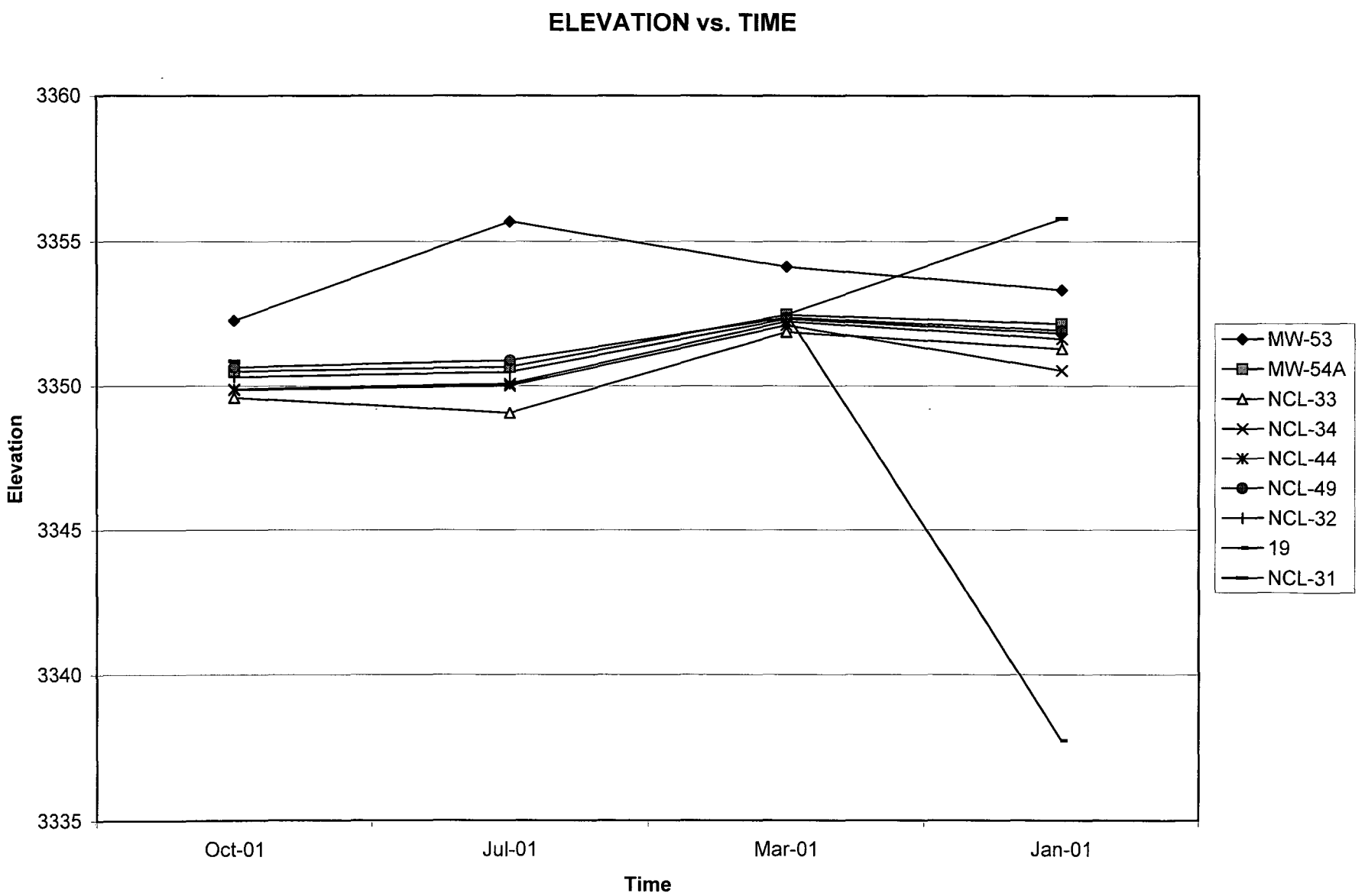
Notes:

BSDL Below Sample Detection Limit

Only wells with analytes above the detection limit noted here.

QUARTERLY PRODUCT THICKNESS

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MW-54A
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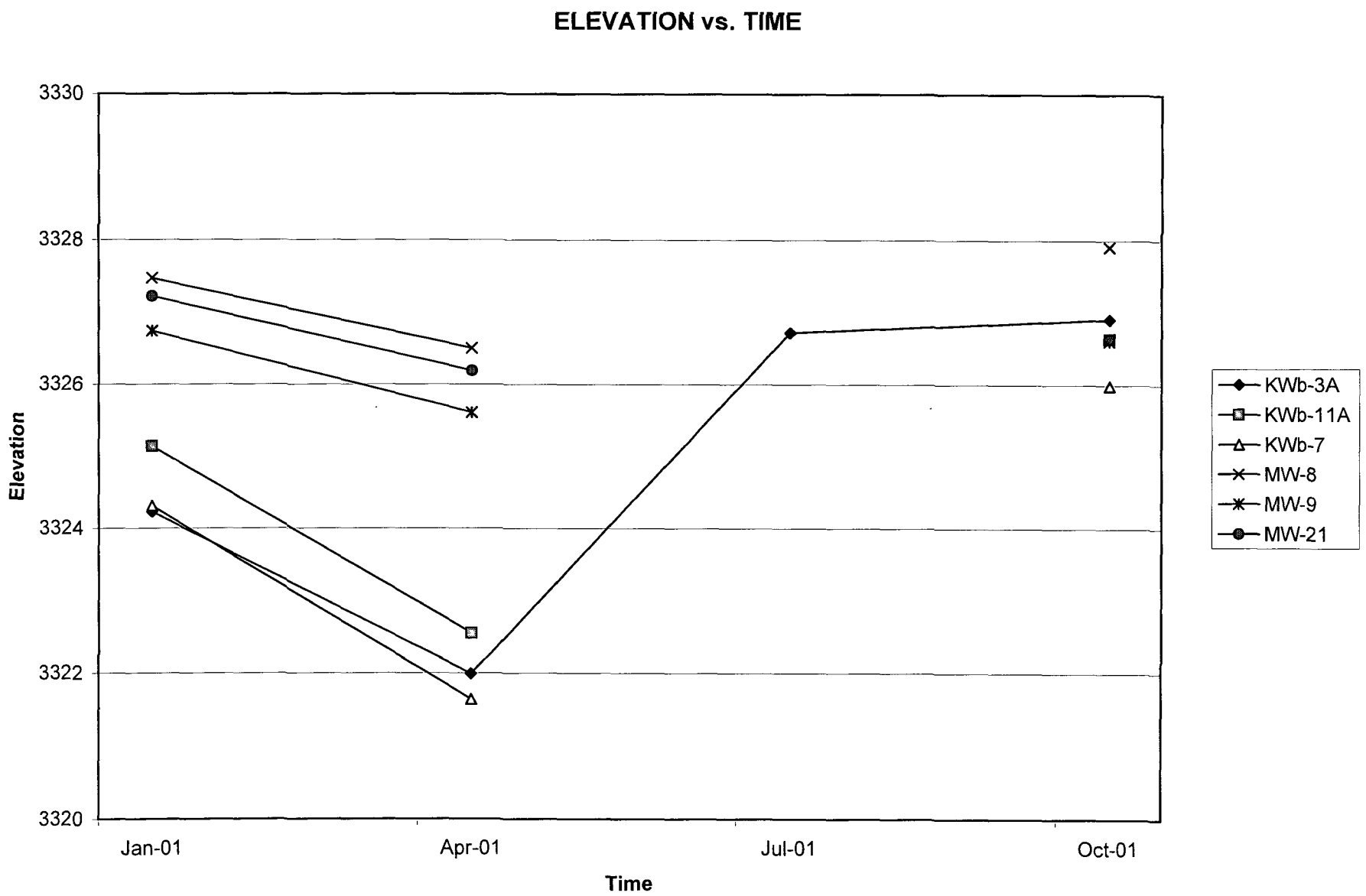
19
NCL-31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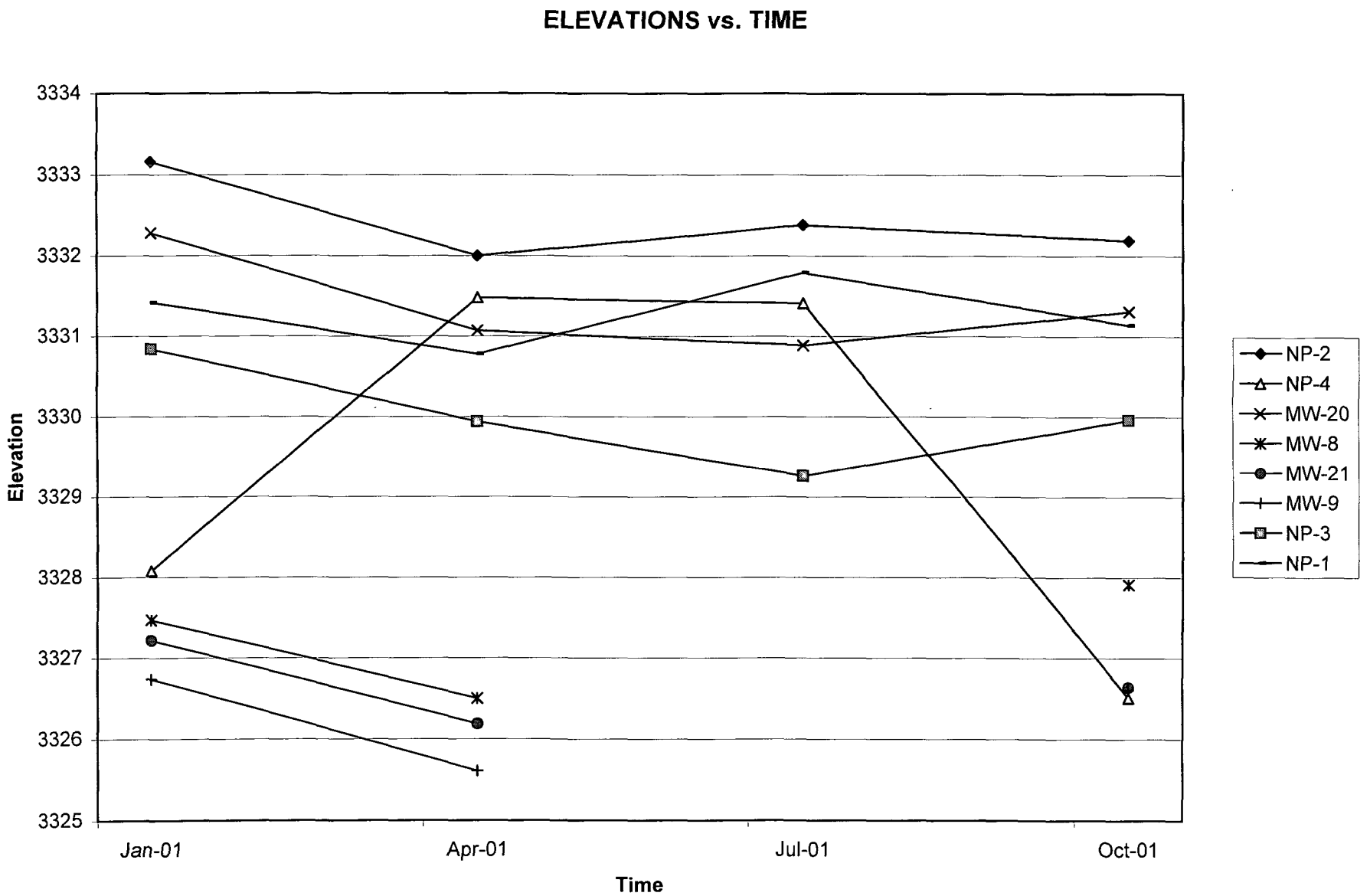
KWb-11A
KWb-7
MW-8
MW-9
MW-21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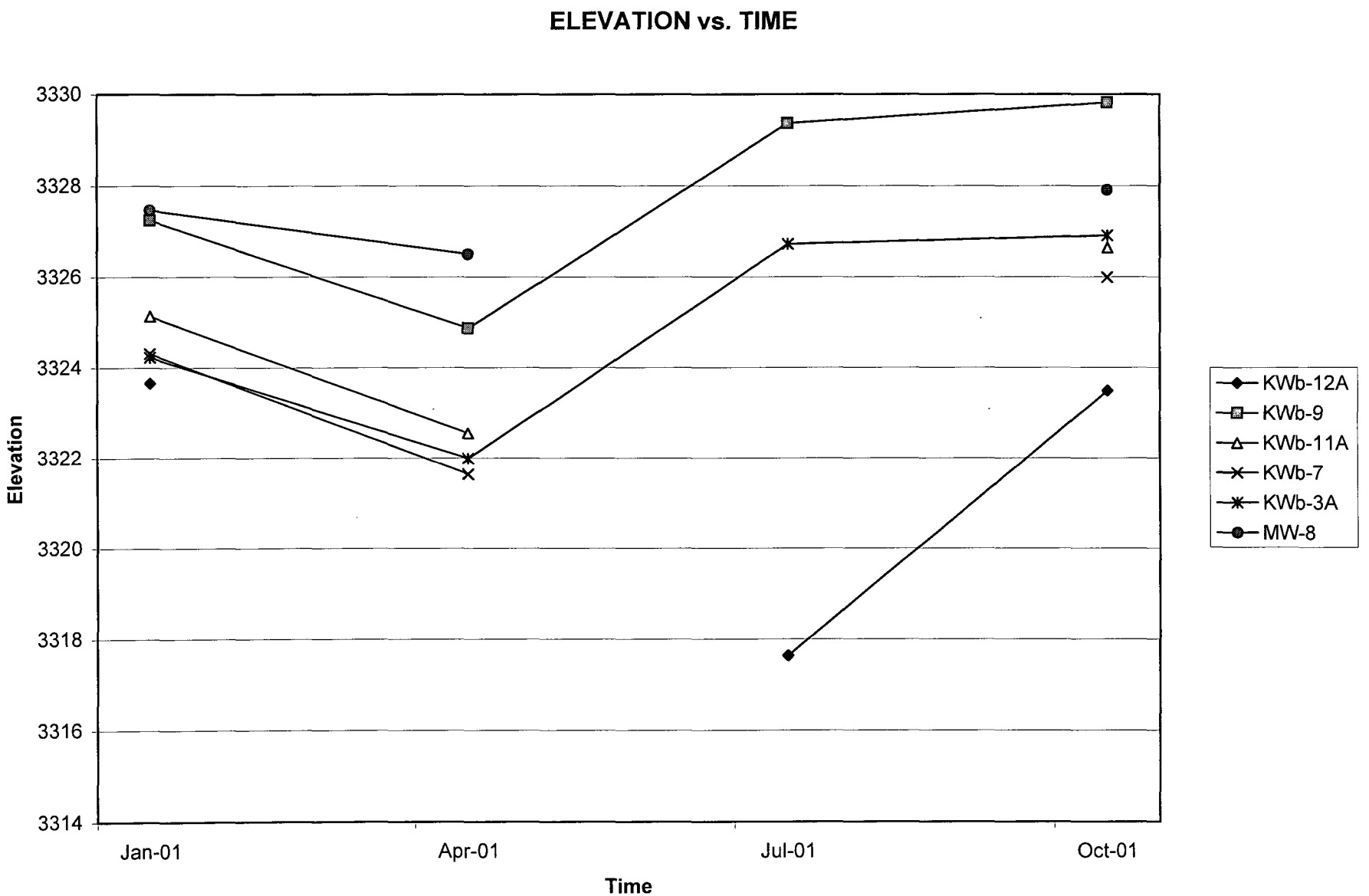
MW-20
MW-8
MW-21
MW-9
NP-3
NP-1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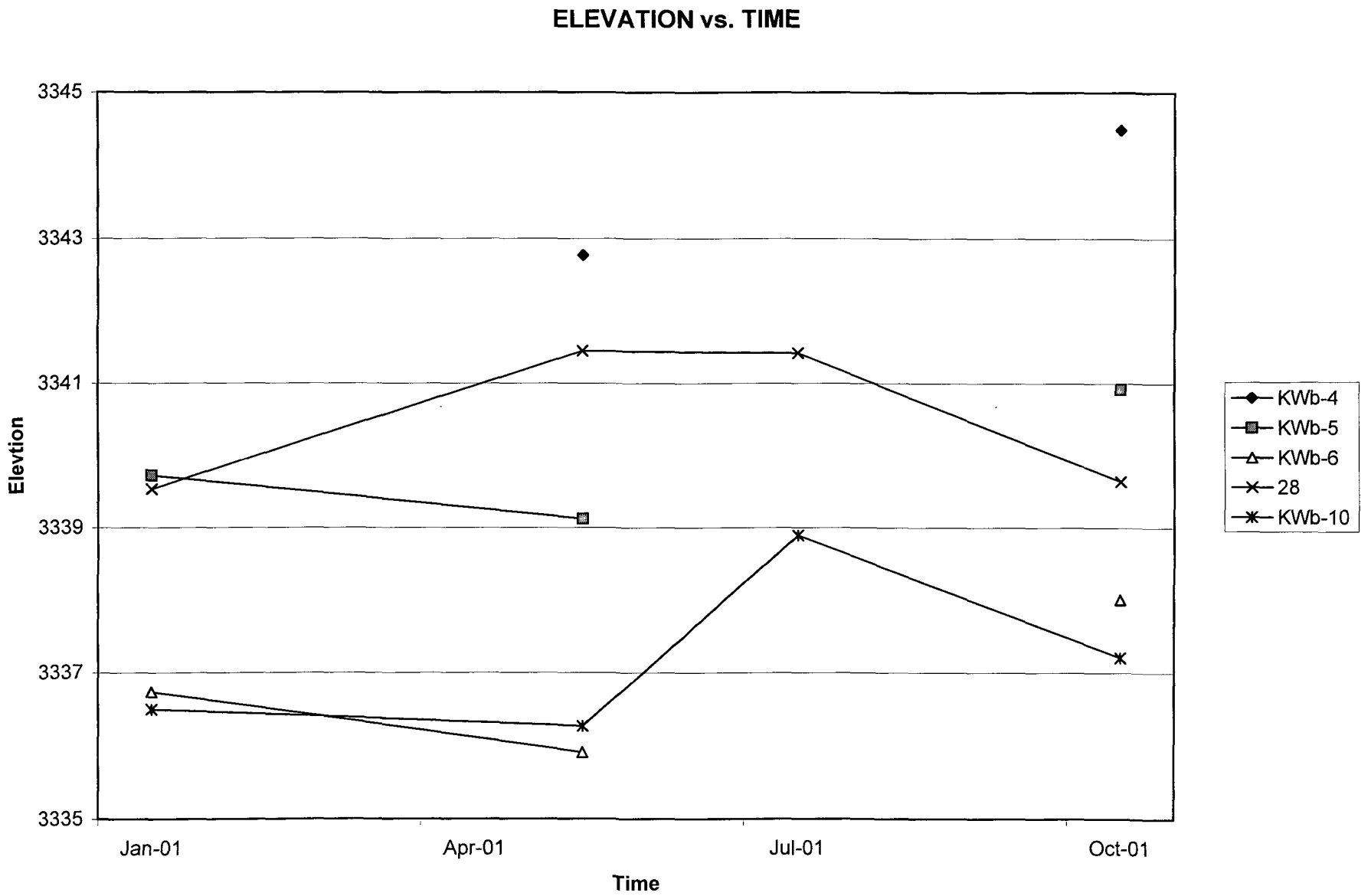
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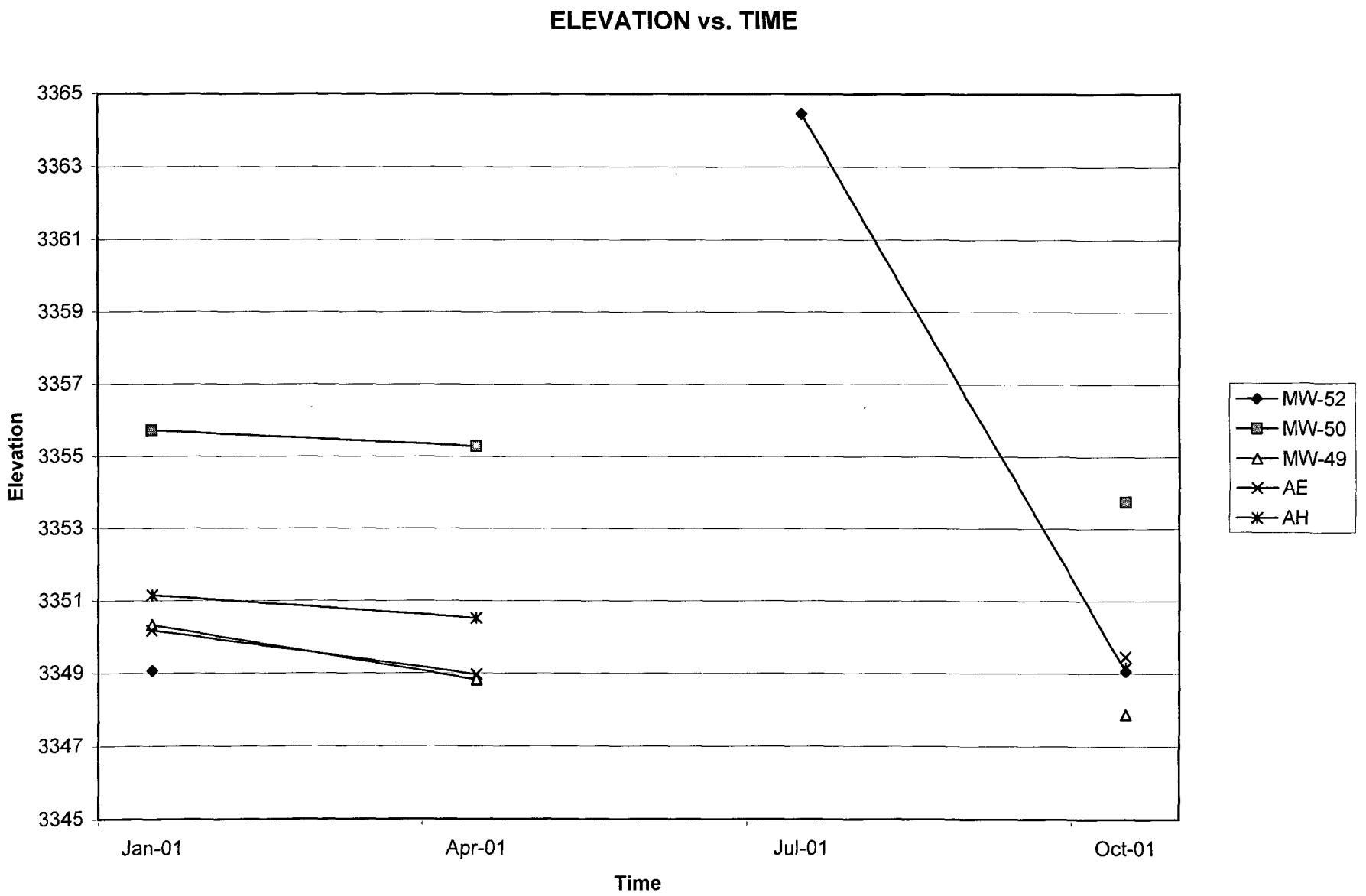
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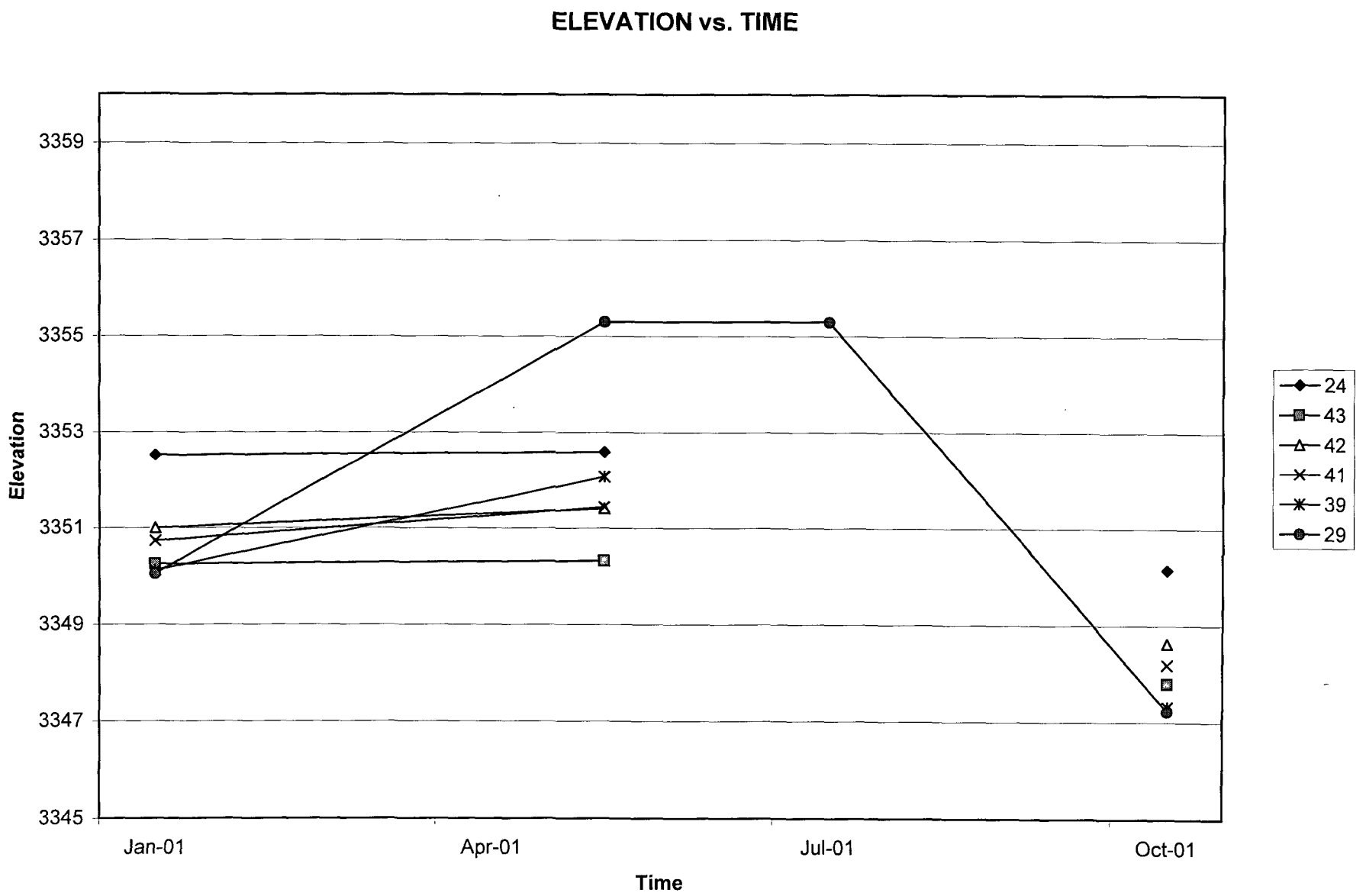
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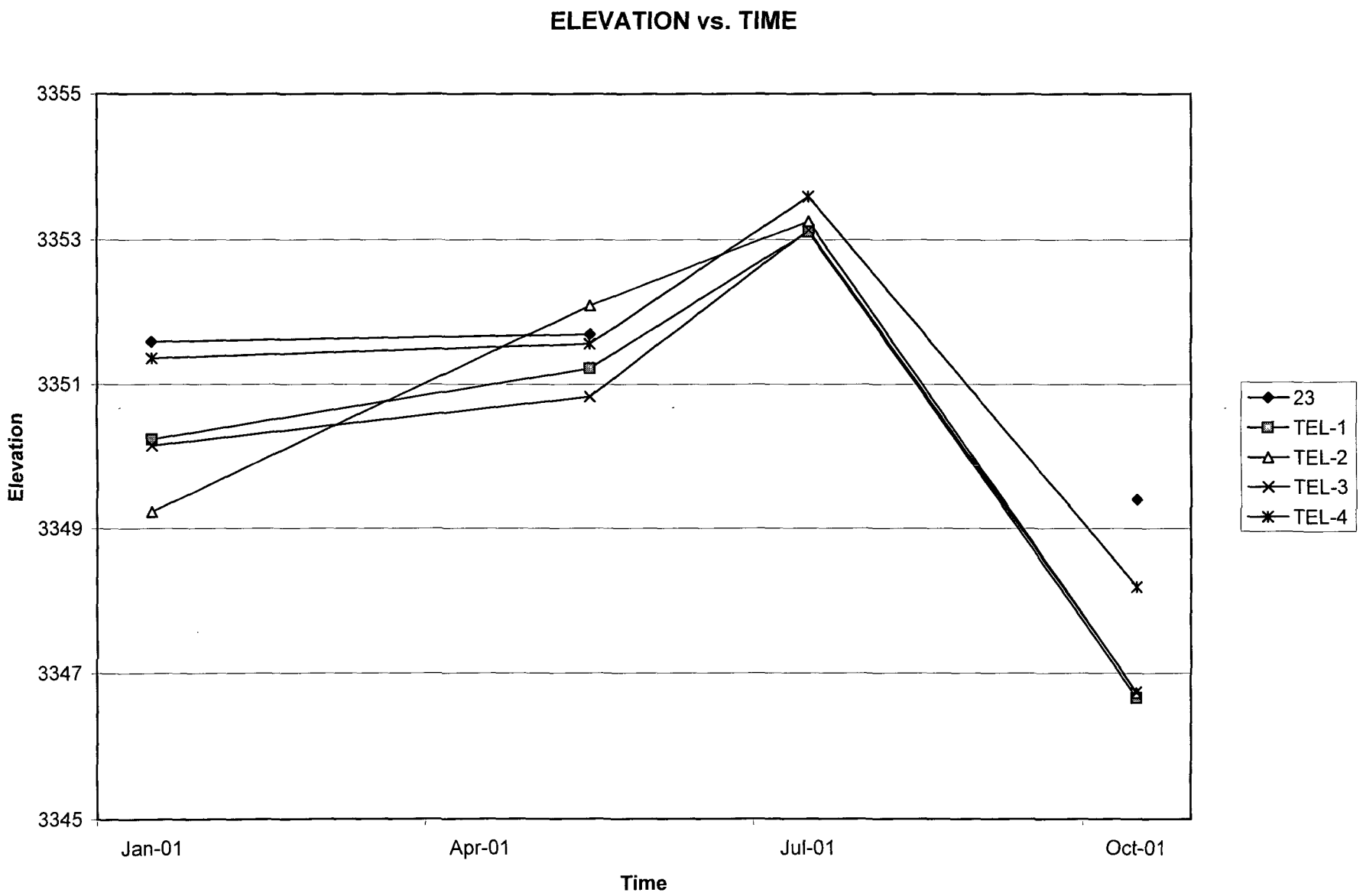
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TEL-3
TEL-4

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

April 17, 2003

CERTIFIED MAIL
RETURN RECEIPT NO. 5357 7133

Mr. Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company L.P.
P.O. Box 159
Artesia, New Mexico 88211-0159

RE: Discharge Permit GW-028
Artesia Refinery
Eddy County, New Mexico

Dear Mr. Moore:

The groundwater discharge permit renewal, GW-028, for the Navajo Refining Company L.P. (Navajo) Artesia Refinery located in the SE/4 of Section 1, E/2 of Section 8, W/2 of Section 9, N/2 of Section 12, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.**

The original discharge permit was approved on October 21, 1991 with an expiration date of October 21, 1996. The discharge permit renewal application dated June 20, 2001 including attachments, and subsequent information dated March 15, 2002, discharge permit addendum dated May 31, 2002 submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge permit is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve Navajo Refining Company L.P. of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve Navajo Refining Company L.P. of its responsibility to comply with any other governmental authority's rules and regulations. Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., Navajo Refining Company L.P. is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4., this approval is for a period of five years. **This approval will expire October 21, 2006** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

The discharge permit application for the Navajo Refining Company L.P., Artesia Refinery is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of $100.00 plus flat fee of $8400.00 for Oil Refineries. The OCD has not received the $8400.00 flat fee.

Please make all checks payable to: Water Quality Management Fund
C/o: Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505.

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail WPRICE@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief
RCA/lwp
Attachment-1
xc: OCD Artesia Office

ATTACHMENT TO THE DISCHARGE PERMIT GW-028 APPROVAL
Navajo Refining Company L.P., Artesia Refinery
DISCHARGE PERMIT APPROVAL CONDITIONS
April 17, 2003

1. Payment of Discharge Permit Fees: The $100.00 filing fee has been received by the OCD. There is a required flat fee of $8400.00 for Oil Refineries. The fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. OCD recommends that Navajo pay the required flat fee 30 days after permit approval. If Navajo chooses to make annual payments then OCD will require documentation of payment to be included in the annual report.

2. Commitments: Navajo Refining Company L.P. will abide by all commitments submitted in the discharge permit renewal application dated June 20, 2001 including attachments, subsequent information dated March 15, 2002, discharge permit addendum dated May 31, 2002 and these conditions for approval.

3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.

6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite. OCD will allow master plans to be used that identifies all tanks, location, size and contents with a numbering system marked on the tanks which corresponds to plot plans contained in the plan.

8. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All below grade tanks, sumps and pits must be tested annually or as specified below (Additional Conditions), except systems that have secondary containment with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Any system found to be leaking shall be reported pursuant to Item # 12. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

   API Separators: A closure plan for OCD approval shall be filed by February 28, 2004 for the Old API separator (South Plant), the North and South Plant current API Separators and the Wastewater Plant Separator.

   New Wastewater (Total Plant) API Separator: Navajo must conform to permit condition Item #8. above.

   Additional Conditions: Navajo shall develop a spreadsheet that contains all underground tanks/sumps/pits. Each device or system shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Navajo shall test at a minimum 20% of the total below grade devices each year.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines including the effluent pipeline between the main refinery complex and the disposal wells, must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge plan and available for NMOCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

   Additional Conditions: Navajo shall develop a spreadsheet that contains all underground process and wastewater lines. Each line shall have an identification number, drawing reference, date installed, test dates, test method, pass/fail/repair information with signature, and investigation results if applicable. Navajo shall test at a minimum 20% of the underground process/wastewater pipelines each year.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected monthly to ensure proper operation and to prevent over topping or system failure. All open to atmosphere spill collection devices will be emptied of fluids, other than rainwater, within 48 hours of discovery. Enclosed secondary containment devices shall be emptied of all fluids within 48 hours to ensure that the primary device is not leaking. A record of inspection will be retained on site for a period of five years.

12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Artesia District Office.

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

OCD is attaching a copy of the Non-Hazardous Material Flow Diagram supplied in the discharge plan addendum dated May 31, 2002.

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division. The following waste is hereby approved: Solid Waste (Trash/Refuse).

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.

15. Storm Water Plan: Navajo Refining Company L.P. shall maintain stormwater runoff controls. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then Navajo shall notify the OCD within 24 hours, modify the permit within 15 days and submit for OCD approval. Navajo shall also take immediate corrective actions pursuant to Item 12 of these conditions.

    Unlined Stormwater Retention Basins: These basins shall be lined, monitored, and records maintained pursuant to Item #8 of these conditions of approval or Navajo may propose an alternate method subject to OCD approval.

16. Reverse Osmosis Reject Water:

    A. The discharge of reject water from the reverse osmosis treatment facility to Navajo Farms shall not exceed the following standards: ***Discharge to Eagle Draw is prohibited.***

Constituent	Concentration	Unit
Aluminum	87	ug/l
Arsenic	100	ug/l
Beryllium	18	ug/l
Barium	1000	ug/l
Boron	750	ug/l

Cadmium	10	ug/l
Chlordane	0.015	ug/l
Chlorine	30	ug/l
Chromium	50	ug/l
Cobalt	50	ug/l
Copper	1000	ug/l
Cyanide	18	ug/l
Fluoride	2500 *	ug/l
Iron	1000	ug/l
Manganese	200	ug/l
Lead	6	ug/l
Mercury	0.042	ug/l
Nickel	200	ug/l
NH3 as N	0.07	ug/l
Radium 226+228	30	pCi/l
Selenium	12	ug/l
Silver	0.4	ug/l
Vanadium	282	ug/l
Zinc	10	mg/l
Sulfate	2661	mg/l
Chloride	275	mg/l
Total Dissolved Solids	4555	mg/l
Chemical Oxygen Demand	125	mg/l
pH	6.6 to 8.6	S.U.

Bod	< 30	mg/l
TSS	<.5	mg/l
Fecal Coloform Bacteria	<500 organisms	Per/ 100 ml

*Amended June 29, 1993

B. Constituents not listed in A. above for which there are standards established pursuant to WQCC Regulation 3103 will not exceed the set numerical standard in that regulation.

C. No toxic pollutant listed in WQCC regulation 1101 TT. will be present in the discharge.

D. SAMPLING: samples of the discharge will be taken and analyzed on the following schedule:

i. Major cations/anions and heavy metals will be sampled at a minimum of semi-annually.

ii. All other constituents will be sampled annually, including the constituents in the above table and Volatile, Semi-Volatile Organic Compounds including Pesticides using EPA methods 624,625 and 608 respectively.

iii. Analysis for all parameters will be pursuant to EPA approved methods.

iv. Sampling and analytical QA/QC records will be retained for all sampling events.

v. All samples will be "grab" samples.

vi. Discharge flow will be monitored and recorded on a daily basis.

vii. Sampling frequency can be reduced, on a parameter-by-parameter basis, upon application and OCD approval provided all analytical data in the previous year was no greater than seventy-five (75) percent of the effluent limit.

viii. All samples collected in a monitoring period will be reported.

ix. Sampling and flow measurement will be representative of the volume and

nature of the discharge.

x. ***Any constituent that exceeds the standards listed above shall be cause for Navajo to stop discharging to the farm area and provide OCD immediate notification. Navajo may not resume discharging until the problem has been corrected.***

xi. Sample data, analytical results and flow measurements shall be reported to the OCD in the annual report.

17. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation permits were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit process.

Ground Water and Treatment System Monitoring:

A. Navajo shall collect perimeter groundwater samples on a semi-annual basis from monitoring wells MW-52, KWB-2R, KWB-13, KWB-9, KWB-3A, KWB-11A, KWB-7, NP-1, NP-2, KWB-45, and MW-18. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), and methyl tertiary butyl ether (MTBE) pursuant to EPA approved methods.

B. Navajo shall collect groundwater samples on an annual basis from monitoring wells KWB-1A, KWB-1C, KWB-2R, KWB-3A, KWB-4, KWB-5, KWB-6, KWB-8, KWB-9, KWB-10, MW- 18, MW-28, MW-29, MW-45, MW-48, MW-49 and from the following recovery trenches that do not have measurable phase-separated hydrocarbons (PSH's); RW-1 through RW-15, and Bolton Road # 1-4. These samples shall be analyzed for Volatiles, Semi-Volatiles, WQCC Metals, General Chemistry including Major Anions and Cations, nitrate/nitrite, dissolved oxygen and oxidation-reduction potential (ORP) all pursuant to EPA approved methods.

C. All Recovery Trenches and all wells (including North Colony Landfarm and Tetra-ethyl-lead wells) with phase-separated hydrocarbons (PSH's) shall be checked at a minimum of once per month and recorded on a spreadsheet. The sheet shall be in table form containing all of the recovery wells, date inspected, product thickness measured to .01 inch, amount of product/water recovered. If product is observed then appropriate steps will be taken to recover product as reasonably possible using the best available technology.

D. Navajo shall collect groundwater samples from the following irrigation wells at the beginning and end of the irrigation season; RA 313, RA 314, RA3723, RA3156, RA 3353, RA 1331, RA 4196, RA 4798 and Larue well. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), methyl tertiary butyl ether (MTBE), Volitale Organic Compounds (VOC's), Semi-Volatile Compounds, WQCC Metals, General Chemistry including Major Anions and Cations all pursuant to EPA approved methods.

E. Evaporation Ponds near Pecos River (Out-of-Service): Navajo shall collect perimeter groundwater samples on a bi-annual basis with at least one half of these wells being analyzed each year. The samples shall be analyzed for concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), and methyl tertiary butyl ether (MTBE), Semi-Volatiles, WQCC Metals and General Chemistry including anions and cations pursuant to EPA approved methods. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report.

F. RCRA Solid Waste Management Units (SMUS) or AREAS OF CONCERN:

Navajo shall collect groundwater samples on a quarterly basis from monitoring wells NCL-32, 33, 34, 44, 49, TEL-1, 2, 3, 4, and from the following monitor wells MW-53, 54A, 55. These samples shall be analyzed for Volatiles, Semi-Volatiles, WQCC Metals, General Chemistry including Major Anions and Cations, nitrate/nitrite, dissolved oxygen and oxidation-reduction potential (ORP) all pursuant to EPA approved methods. Navajo shall incorporate these findings into a summary table with all other monitor points on-site. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report.

G. ANNUAL REPORT: An annual report will be submitted to the OCD by February 28 of each year. The annual reports will contain:

i. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.

ii. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent years laboratory analytical data sheets will also be submitted

iii. An annual water table potentiometric elevation map using the water table

elevation of the ground water in all refinery monitor wells. A corrected water table elevation shall be determined for all wells containing phase-separated hydrocarbons. This map shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.

iv. Plots of water table elevation vs. time for each ground water monitoring point.

v. A annual product thickness map based on the thickness of free phase product on ground water in all refinery monitor wells. This map shall include isopleth lines for products and contaminants of concern.

vi. The volume of product recovered in the remediation/treatment system during each quarter and the total recovered to date.

vii. The volume of total fluids pumped from all recovery wells and trenches during each quarter and the total volume recovered to date.

viii. Electronic filing: OCD would like to encourage Navajo to file this report in an acceptable electronic format.

H. Additional Requirements:

i. Up-date all on-site and off-site maps, showing the current status of all recovery/monitor/ domestic, irrigation wells and pertinent features including the stormwater basins.

ii. Navajo shall investigate the area between monitor well KWB-2R and the refinery to determine if a new remediation recovery trench system is required in this area. The results of this investigation shall be submitted to the OCD by July 15, 2003.

iii. Replace MW-1 at the evaporation ponds.

iv. If phase separated hydrocarbons are found east of the Bolton Road recovery system, then a new recovery system shall be installed in this area including down-gradient monitor wells. Any wells that reveal contaminants that exceed WQCC groundwater standards shall be reason to install addition wells to determine the extent of contamination. All new

wells shall be added to the maps and included in the annual report.

v. Bolton Road recovery trench #1 and 2 were noted to be dry. OCD is concerned that contaminants may be flowing under and past these trenches. Please modify these trenches or install monitor wells directly east of these devices by November 15, 2003.

vi. Navajo shall investigate the area between RW-10 and RW-5 and the refinery to determine if a new remediation recovery trench system is required in this area. The results of this investigation shall be submitted to the OCD by November 15, 2003.

vii. Navajo shall install an additional monitor well northeast of MW-45. OCD is concerned about contamination migrating off of Navajo property in this area by November 15, 2003.

viii. Navajo shall notify the OCD Santa Fe and local district office at least 2 weeks in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples. For large facilities, i.e. referinies, an annual notification will suffice.

ix. Navajo shall notify the NMOCD of the discovery of separated-phase hydrocarbons or the exceedance of a WQCC standard in any down gradient monitor well where separate-phase hydrocarbons were not present or where contaminant concentrations did not exceed WQCC standards during the preceding monitoring event pursuant to NMOCD Rule 116.

18. Transfer of Discharge permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.

19. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

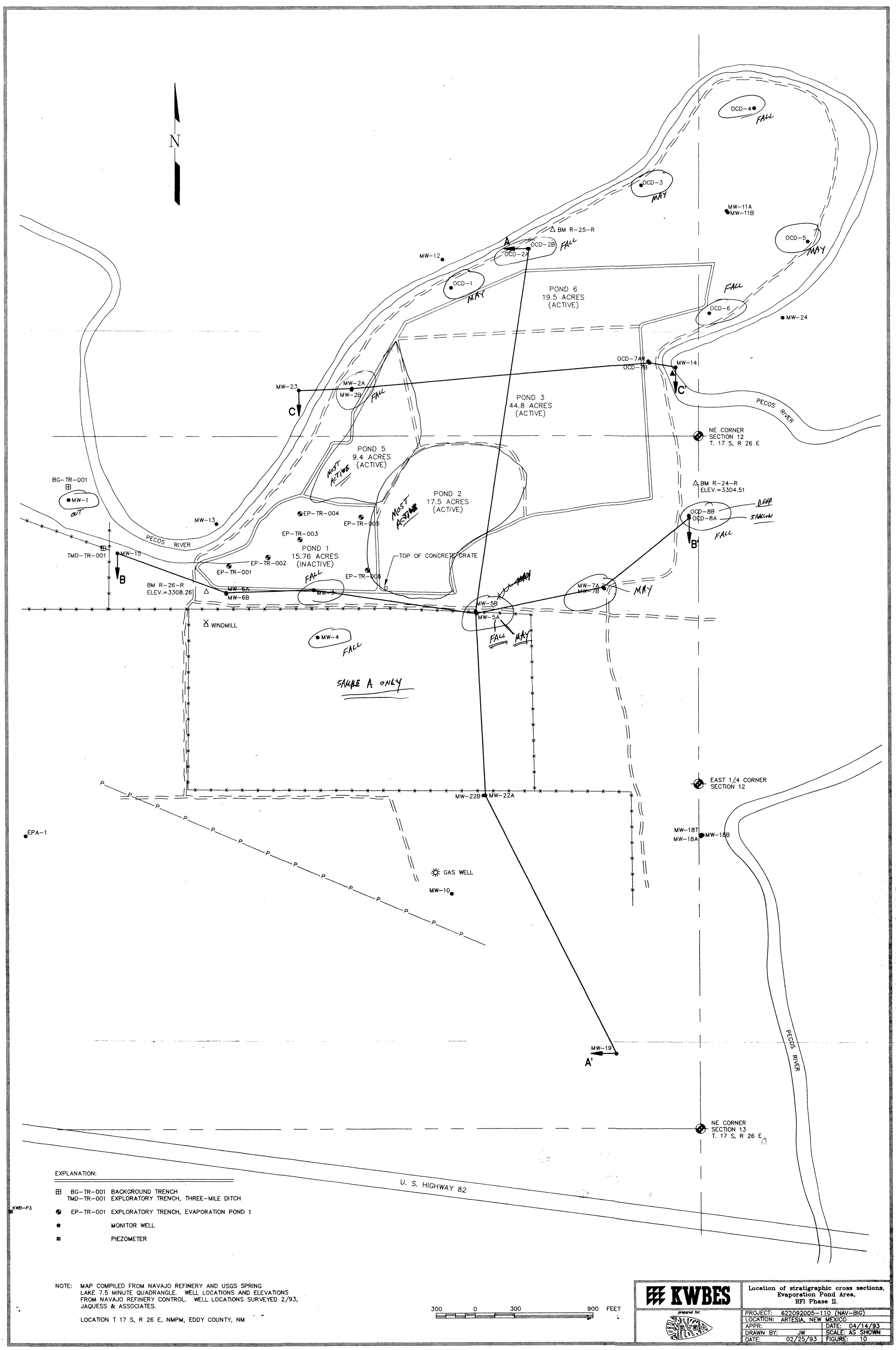
20. Certification: **Navajo Refining Company L.P.** by the officer whose signature appears below, accepts this and agrees to comply with all terms and conditions contained herein. **Navajo Refining Company L.P.** further acknowledges that these conditions and requirements of this may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Navajo Refining Company L.P.**

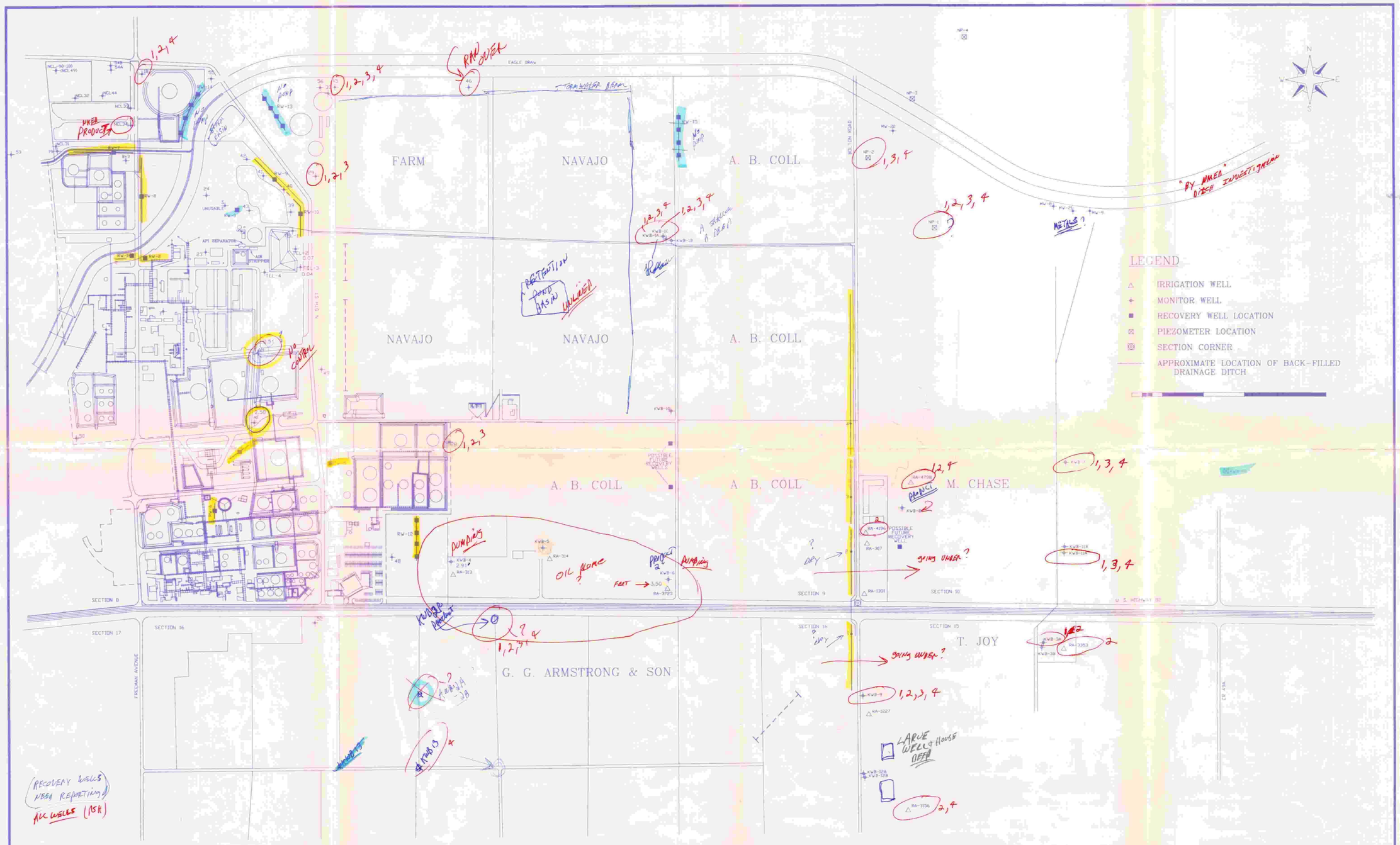
_____
Company Representative- print name

_____Date_____
Company Representative- Sign

Title_____


N
OCD-4
FALL
OCD-3
MAY
MW-11A
MW-11B
BM R-25-R
OCD-2B
OCD-2A
FALL
OCD-5
MAY
MW-12
OCD-1
MAY
POND 6
19.5 ACRES
(ACTIVE)
FALL
OCD-6
MW-24
OCD-7A
OCD-7B
MW-14
MW-23
MW-2A
MW-2B
FALL
C
C'
POND 3
44.8 ACRES
(ACTIVE)
PECOS RIVER
NE CORNER
SECTION 12
T. 17 S, R 26 E
POND 5
9.4 ACRES
(ACTIVE)
MOST ACTIVE
BG-TR-001
MW-1
OUT
POND 2
17.5 ACRES
(ACTIVE)
MOST ACTIVE
BM R-24-R
ELEV.=3304.51
OCD-8B
OCD-8A
DEEP
SHALLOW
FALL
MW-13
EP-TR-004
EP-TR-005
EP-TR-003
PECOS RIVER
TMD-TR-001
MW-15
B
B'
POND 1
15.76 ACRES
(INACTIVE)
EP-TR-002
EP-TR-001
TOP OF CONCRETE GRATE
EP-TR-006
BM R-26-R
ELEV.=3308.26
MW-6A
MW-6B
FALL
MW-3
MW-7A
MW-7B
MAY
MW-5B
MW-5A
FALL
MAY
WINDMILL
MW-4
FALL
SAMPLE A ONLY
EAST 1/4 CORNER
SECTION 12
MW-22B
MW-22A
EPA-1
MW-18T
MW-18A
MW-18B
GAS WELL
MW-10
MW-19
A'
PECOS RIVER
NE CORNER
SECTION 13
T. 17 S, R 26 E
U. S. HIGHWAY 82
EXPLANATION:
BG-TR-001 BACKGROUND TRENCH
TMD-TR-001 EXPLORATORY TRENCH, THREE-MILE DITCH
EP-TR-001 EXPLORATORY TRENCH, EVAPORATION POND 1
MONITOR WELL
KWB-P3
PIEZOMETER
NOTE: MAP COMPILED FROM NAVAJO REFINERY AND USGS SPRING LAKE 7.5 MINUTE QUADRANGLE. WELL LOCATIONS AND ELEVATIONS FROM NAVAJO REFINERY CONTROL. WELL LOCATIONS SURVEYED 2/93, JAQUESS & ASSOCIATES.
LOCATION T 17 S, R 26 E, NMPM, EDDY COUNTY, NM
300 0 300 900 FEET
KWBES
prepared for:
Navajo
Location of stratigraphic cross sections, Evaporation Pond Area, RFI Phase II.
PROJECT: 622092005-110 (NAV-BIG)
LOCATION: ARTESIA, NEW MEXICO
APPR:
DATE: 04/14/93
DRAWN BY: JW
SCALE: AS SHOWN
DATE: 02/25/93
FIGURE: 10

DWG.	REV
07-81-D-01	0
09-120-D	2
09-121-D	2
10-767-D-1	4
11-23-D	0
12-18-D	2
13-241-D	1
44-100-D-1	1
44-100-D-2	1
70-04-D	C
80-1-D-1	2
80-1-D-2	2
90-07-D-1	3
90-07-D-2	1
90-15-D-1	3
90-15-D-2	3
90-15-D-3	1
90-15-D-4	1
90-34-D-1	0
90-58-D	2
09-Z-103-D	0
55-BOX-A	A
55-134-A	
558100-5-5	2



NOTES

TRENCHES ————————

POSSIBLE FUTURE TRENCHES - - - - - - - - - - -

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK	DATE	APPR	APPR
17	2001 READINGS	DEC	DGJ	02/26/02	DGM	DGJ
16	2000 READINGS	BHR	DGM	02/26/01	DGM	
15	'95-'99 READINGS	LGR	DGM	02/26/00	DGM	DGJ
14	SEPT. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
13	JUN. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
12	MAR. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
11	JAN. 1999 READINGS	LGR	DGM	02/26/00	DGM	DGJ
10	SEPT. 1998 READINGS	LGR	DGM	02/26/99	DGM	DGJ
9	JUN. 1998 READINGS	LGR	DGM	02/26/99	DGM	DGJ

NO.	REVISIONS	BY	CHK	DATE	APPR	APPR
8	MAR. 1998 READINGS	LGR	DGM	02/26/98	DGM	DGJ
7	JAN. 1998 READINGS	LGR	DGM	02/26/98	DGM	DGJ
6	OCT. , 1996 READINGS	DLW	DGJ	10/26/96	DGM	DGJ
5	AUGUST, 1996 READINGS	DLW	DGJ	9/11/96	DGM	DGJ
4	MAY, 1996 READINGS	DLW	DGJ	02/26/96	DGM	DGJ
3	JANUARY, 1996 READINGS	DLW	DGJ	01-10-96	DGM	DGJ
2	SEPTEMBER, 1995 READINGS	PETE	DGJ	10-17-95	DGM	DGJ
1	JUNE, 1995 READINGS	PETE	DGJ	7-18-95	DGM	ILS
0	ISSUED WITH MARCH, 1995 READINGS	PETE	DGJ	3-31-95	DGM	ILS

DRAWING TITLE

PRODUCT THICKNESS MAP
NAVAJO REFINING
4TH QTR

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHKD BY	SCALE	
DLW	DGM	AS SHOWN	
DATE	APPR BY	DRAWING NUMBER	REV.
3-17-95	ILS	90-45-D	17

FEB 26 2002

188678-87

Page ____ of ____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0201107

Company Name: Navajo Refining Co.
Phone #:
Address: (Street, City, Zip)
Fax #:
Contact Person:
Invoice to: (If different from above)
Project #:
Project Name: QtRLY OFF
Project Location: Artesia
Sampler Signature: QtRLY OFF

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	See List					Turn Around Time if different from standard	Hold
188678	KWB 11A	2	40mL	X				X				X		1/10	0915																X						
79	~~KWB 11B~~ No Sample KWB 2R													1/10	~~0916~~ 13:20																X						
80	RWB 7													1/10	0900																X						
81	NP2													1/9	1510																X						
82	NP1													1/9	1500																X						
83	MW-45 1 VOA Broken	1												1/9	1035																X						
84	RWB 13													1/10	1000																X						
85	MW-18	2	40mL	X				X				X		1/10	1430																X						
86	MW-28														1520																X						
87	MW-29														1500																X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	1/10/02	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Hensley	1-11-02	9:00 AM

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3 °
Log-in Review MS

REMARKS:

FYP 1/25/02

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: April 18, 2001

Order ID Number: A01040408

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
168294	RA313	Water	4/3/01	14:20	4/4/01
168295	RA4196	Water	4/3/01	10:55	4/4/01
168296	RA4798	Water	4/3/01	11:00	4/4/01
168297	Larue Well	Water	4/3/01	10:45	4/4/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 168294 - RA313

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10495	Date Analyzed:	4/13/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09022	Date Prepared:	4/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 168294 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.36	μg/L	1	50	98	89 - 110
Toluene-d8		53.57	μg/L	1	50	107	95 - 107
4-Bromofluorobenzene		46.49	μg/L	1	50	92	81 - 105

Sample: 168295 - RA4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10495	Date Analyzed:	4/13/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09022	Date Prepared:	4/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 168295 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.16	μg/L	1	50	98	89 - 110
Toluene-d8		53.30	μg/L	1	50	106	95 - 107
4-Bromofluorobenzene		46.34	μg/L	1	50	92	81 - 105

Sample: 168296 - RA4798

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10495	Date Analyzed:	4/13/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09022	Date Prepared:	4/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.20	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... Continued Sample: 168296 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.84	μg/L	1	50	99	89 - 110
Toluene-d8		52.56	μg/L	1	50	105	95 - 107
4-Bromofluorobenzene		47.26	μg/L	1	50	94	81 - 105

Sample: 168297 - Larue Well

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10495	Date Analyzed:	4/13/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09022	Date Prepared:	4/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 168297 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 168297 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.30	μg/L	1	50	98	89 - 110
Toluene-d8		53.03	μg/L	1	50	106	95 - 107
4-Bromofluorobenzene		46.87	μg/L	1	50	93	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC10495

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)		<1.00	μg/L	1
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)		<1.00	μg/L	1
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.01	µg/L	1	50	98	89 - 110
Toluene-d8		53.05	µg/L	1	50	106	95 - 107
4-Bromofluorobenzene		47.10	µg/L	1	50	94	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC10495

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	97	98	µg/L	1	100	<1.00	97	1	71 - 132	20
Benzene	102	103	µg/L	1	100	<1.00	102	0	81 - 114	20
Trichloroethene (TCE)	85	86	µg/L	1	100	<1.00	85	1	79 - 111	20
Toluene	100	101	µg/L	1	100	<1.00	100	0	81 - 110	20
Chlorobenzene	100	101	µg/L	1	100	<1.00	100	0	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	49.26	49.50	µg/L	1	50	98	99	89 - 110
Toluene-d8	51.57	51.55	µg/L	1	50	103	103	95 - 107
4-Bromofluorobenzene	47.13	47.47	µg/L	1	50	94	94	81 - 105

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC10495

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	91	91	80 - 120	4/13/01
1,1-Dichloroethene		µg/L	100	90	90	80 - 120	4/13/01
Chloroform		µg/L	100	93	93	80 - 120	4/13/01
1,2-Dichloropropane		µg/L	100	100	100	80 - 120	4/13/01
Toluene		µg/L	100	98	98	80 - 120	4/13/01
Chlorobenzene		µg/L	100	100	100	80 - 120	4/13/01
Ethylbenzene		µg/L	100	103	103	80 - 120	4/13/01
Dibromofluoromethane		µg/L	50	49.78	99	80 - 120	4/13/01
Toluene-d8		µg/L	50	50.92	101	80 - 120	4/13/01
4-Bromofluorobenzene		µg/L	50	50.94	101	80 - 120	4/13/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: April 18, 2001

Order ID Number: A01040408

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
168294	RA313	Water	4/3/01	14:20	4/4/01
168295	RA4196	Water	4/3/01	10:55	4/4/01
168296	RA4798	Water	4/3/01	11:00	4/4/01
168297	Larue Well	Water	4/3/01	10:45	4/4/01

This report consists of a total of 7 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 168294 - RA313

Param	Flag	Result	Units
624			
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L

Continued on next page . . .

Sample 168294 continued ...

Param	Flag	Result	Units
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168295 - RA4196

Param	Flag	Result	Units
624			
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L

Continued on next page ...

Sample 168295 continued . . .

Param	Flag	Result	Units
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L

Continued on next page . . .

Sample 168295 continued . . .

Param	Flag	Result	Units
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168296 - RA4798

Param	Flag	Result	Units
624			
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		2.20	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L

Continued on next page . . .

Sample 168296 continued . . .

Param	Flag	Result	Units
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168297 - Larue Well

Param	Flag	Result	Units
624			
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L

Continued on next page . . .

Sample 168297 continued ...

Param	Flag	Result	Units
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L

Continued on next page ...

Sample 168297 continued ...

Param	Flag	Result	Units
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

168294-97

Page____of____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01040408

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Darrell Moore
Invoice to: (If different from above)
Project #:
Project Name: Monthly offsite
Project Location: Artesia
Sampler Signature: [signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Gold					Turn Around Time if different from standard	Hold
168294	RA313	2	40ml	X				X				X		4/3/01	1420				See List												✓						
95	RA4196	2	40ml	X				X				X		4/3/01	1055																✓						
96	RA4798	2	40ml	X				X				X		4/3/01	1100																✓						
97	Larue well	2	40ml	X				X				X		4/3/01	1045																✓						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/3/01	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	4.4.01	10:00

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 2°
Log-in Review ONS

REMARKS:
4/18/01

☐ Check If Special Reporting Limits Are Needed

Carrier # fedex 3(7-7348 474

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 9, 2001

Order ID Number: A01041113

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
168731	KWB 2R	Water	4/10/01	9:00	4/11/01
168732	RA 3156	Water	4/10/01	9:10	4/11/01
168733	KWB 11A	Water	4/10/01	10:17	4/11/01
168734	KWB 7	Water	4/10/01	10:30	4/11/01
168735	KWB 3A	Water	4/10/01	10:55	4/11/01
168736	RA 3353	Water	4/10/01	9:50	4/11/01
168737	KWB 1A	Water	4/10/01	9:50	4/11/01
168738	KWB 1C	Water	4/10/01	10:55	4/11/01
168739	KWB 9	Water	4/10/01	11:05	4/11/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 168731 - KWB 2R

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<50.0	µg/L	50	1
Dichlorodifluoromethane		<50.0	µg/L	50	1
Chloromethane (methyl chloride)		<50.0	µg/L	50	1
Vinyl Chloride		<50.0	µg/L	50	1
Bromomethane (methyl bromide)		<50.0	µg/L	50	1
Chloroethane		<50.0	µg/L	50	1
Trichlorofluoromethane		<50.0	µg/L	50	1
Acetone		<500	µg/L	50	10
Iodomethane (methyl iodide)		<50.0	µg/L	50	1
Carbon Disulfide		<50.0	µg/L	50	1
Acrylonitrile		<50.0	µg/L	50	1
2-Butanone (MEK)		<250	µg/L	50	5
4-methyl-2-pentanone (MIBK)		<250	µg/L	50	5
2-hexanone		<250	µg/L	50	5
trans 1,4-Dichloro-2-butene		<500	µg/L	50	10
1,1-Dichloroethene		<50.0	µg/L	50	1
Methylene chloride		<250	µg/L	50	5
MTBE		<50.0	µg/L	50	1
trans-1,2-Dichloroethene		<50.0	µg/L	50	1
1,1-Dichloroethane		<50.0	µg/L	50	1
cis-1,2-Dichloroethene		<50.0	µg/L	50	1
2,2-Dichloropropane		<50.0	µg/L	50	1
1,2-Dichloroethane (EDC)		<50.0	µg/L	50	1
Chloroform		<50.0	µg/L	50	1
1,1,1-Trichloroethane		<50.0	µg/L	50	1
1,1-Dichloropropene		<50.0	µg/L	50	1
Benzene		1341	µg/L	50	1
Carbon Tetrachloride		<50.0	µg/L	50	1
1,2-Dichloropropane		<50.0	µg/L	50	1
Trichloroethene (TCE)		<50.0	µg/L	50	1
Dibromomethane (methylene bromide)		<50.0	µg/L	50	1
Bromodichloromethane		<50.0	µg/L	50	1
2-Chloroethyl vinyl ether		<250	µg/L	50	5
cis-1,3-Dichloropropene		<50.0	µg/L	50	1
trans-1,3-Dichloropropene		<50.0	µg/L	50	1
Toluene		<50.0	µg/L	50	1
1,1,2-Trichloroethane		<50.0	µg/L	50	1
1,3-Dichloropropane		<50.0	µg/L	50	1
Dibromochloromethane		<50.0	µg/L	50	1
1,2-Dibromoethane (EDB)		<50.0	µg/L	50	1
Tetrachloroethene (PCE)		<50.0	µg/L	50	1
Chlorobenzene		<50.0	µg/L	50	1
1,1,1,2-Tetrachloroethane		<50.0	µg/L	50	1
Ethylbenzene		888	µg/L	50	1
m,p-Xylene		61.1	µg/L	50	1
Bromoform		<50.0	µg/L	50	1
Styrene		<50.0	µg/L	50	1
o-Xylene		<50.0	µg/L	50	1

Continued . . .

... *Continued* Sample: 168731 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<50.0	μg/L	50	1
2-Chlorotoluene		<50.0	μg/L	50	1
1,2,3-Trichloropropane		<50.0	μg/L	50	1
Isopropylbenzene		70.7	μg/L	50	1
Bromobenzene		<50.0	μg/L	50	1
n-Propylbenzene		148	μg/L	50	1
1,3,5-Trimethylbenzene		<50.0	μg/L	50	1
tert-Butylbenzene		<50.0	μg/L	50	1
1,2,4-Trimethylbenzene		434	μg/L	50	1
1,4-Dichlorobenzene (para)		<50.0	μg/L	50	1
sec-Butylbenzene		<50.0	μg/L	50	1
1,3-Dichlorobenzene		<50.0	μg/L	50	1
p-Isopropyltoluene		<50.0	μg/L	50	1
4-Chlorotoluene		<50.0	μg/L	50	1
1,2-Dichlorobenzene (ortho)		<50.0	μg/L	50	1
n-Butylbenzene		<50.0	μg/L	50	1
1,2-Dibromo-3-chloropropane		<250	μg/L	50	5
1,2,3-Trichlorobenzene		<250	μg/L	50	5
1,2,4-Trichlorobenzene		<250	μg/L	50	5
Naphthalene		<250	μg/L	50	1
Hexachlorobutadiene		<250	μg/L	50	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.82	μg/L	1	50	97	89 - 110
Toluene-d8		51.39	μg/L	1	50	102	95 - 107
4-Bromofluorobenzene		46.08	μg/L	1	50	92	81 - 105

Sample: 168732 - RA 3156

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<5.00	μg/L	5	1
Dichlorodifluoromethane		<5.00	μg/L	5	1
Chloromethane (methyl chloride)		<5.00	μg/L	5	1
Vinyl Chloride		<5.00	μg/L	5	1
Bromomethane (methyl bromide)		<5.00	μg/L	5	1
Chloroethane		<5.00	μg/L	5	1
Trichlorofluoromethane		<5.00	μg/L	5	1
Acetone		<50.0	μg/L	5	10
Iodomethane (methyl iodide)		<5.00	μg/L	5	1
Carbon Disulfide		<5.00	μg/L	5	1
Acrylonitrile		<5.00	μg/L	5	1
2-Butanone (MEK)		<25.0	μg/L	5	5
4-methyl-2-pentanone (MIBK)		<25.0	μg/L	5	5
2-hexanone		<25.0	μg/L	5	5
trans 1,4-Dichloro-2-butene		<50.0	μg/L	5	10
1,1-Dichloroethene		<5.00	μg/L	5	1
Methylene chloride		<25.0	μg/L	5	5
MTBE		<5.00	μg/L	5	1

Continued ...

... *Continued* Sample: 168732 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<5.00	μg/L	5	1
1,1-Dichloroethane		<5.00	μg/L	5	1
cis-1,2-Dichloroethene		<5.00	μg/L	5	1
2,2-Dichloropropane		<5.00	μg/L	5	1
1,2-Dichloroethane (EDC)		<5.00	μg/L	5	1
Chloroform		<5.00	μg/L	5	1
1,1,1-Trichloroethane		<5.00	μg/L	5	1
1,1-Dichloropropene		<5.00	μg/L	5	1
Benzene		<5.00	μg/L	5	1
Carbon Tetrachloride		<5.00	μg/L	5	1
1,2-Dichloropropane		<5.00	μg/L	5	1
Trichloroethene (TCE)		<5.00	μg/L	5	1
Dibromomethane (methylene bromide)		<5.00	μg/L	5	1
Bromodichloromethane		<5.00	μg/L	5	1
2-Chloroethyl vinyl ether		<25.0	μg/L	5	5
cis-1,3-Dichloropropene		<5.00	μg/L	5	1
trans-1,3-Dichloropropene		<5.00	μg/L	5	1
Toluene		<5.00	μg/L	5	1
1,1,2-Trichloroethane		<5.00	μg/L	5	1
1,3-Dichloropropane		<5.00	μg/L	5	1
Dibromochloromethane		<5.00	μg/L	5	1
1,2-Dibromoethane (EDB)		<5.00	μg/L	5	1
Tetrachloroethene (PCE)		<5.00	μg/L	5	1
Chlorobenzene		<5.00	μg/L	5	1
1,1,1,2-Tetrachloroethane		<5.00	μg/L	5	1
Ethylbenzene		<5.00	μg/L	5	1
m,p-Xylene		<5.00	μg/L	5	1
Bromoform		<5.00	μg/L	5	1
Styrene		<5.00	μg/L	5	1
o-Xylene		<5.00	μg/L	5	1
1,1,2,2-Tetrachloroethane		<5.00	μg/L	5	1
2-Chlorotoluene		<5.00	μg/L	5	1
1,2,3-Trichloropropane		<5.00	μg/L	5	1
Isopropylbenzene		<5.00	μg/L	5	1
Bromobenzene		<5.00	μg/L	5	1
n-Propylbenzene		<5.00	μg/L	5	1
1,3,5-Trimethylbenzene		<5.00	μg/L	5	1
tert-Butylbenzene		<5.00	μg/L	5	1
1,2,4-Trimethylbenzene		<5.00	μg/L	5	1
1,4-Dichlorobenzene (para)		<5.00	μg/L	5	1
sec-Butylbenzene		<5.00	μg/L	5	1
1,3-Dichlorobenzene		<5.00	μg/L	5	1
p-Isopropyltoluene		<5.00	μg/L	5	1
4-Chlorotoluene		<5.00	μg/L	5	1
1,2-Dichlorobenzene (ortho)		<5.00	μg/L	5	1
n-Butylbenzene		<5.00	μg/L	5	1
1,2-Dibromo-3-chloropropane		<25.0	μg/L	5	5
1,2,3-Trichlorobenzene		<25.0	μg/L	5	5
1,2,4-Trichlorobenzene		<25.0	μg/L	5	5
Naphthalene		<25.0	μg/L	5	1
Hexachlorobutadiene		<25.0	μg/L	5	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.44	μg/L	1	50	96	89 - 110
Toluene-d8		50.31	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		45.98	μg/L	1	50	91	81 - 105

Sample: 168733 - KWB 11A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		3.14	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		6.57	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 168733 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		5.67	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		1.51	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.87	μg/L	1	50	97	89 - 110
Toluene-d8		51.94	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		45.40	μg/L	1	50	90	81 - 105

Sample: 168734 - KWB 7

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 168734 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		32.5	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		3.39	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		3.98	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		1.23	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 168734 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.13	μg/L	1	50	100	89 - 110
Toluene-d8		50.82	μg/L	1	50	101	95 - 107
4-Bromofluorobenzene		44.42	μg/L	1	50	88	81 - 105

Sample: 168735 - KWB 3A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		1.23	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 168735 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.61	μg/L	1	50	99	89 - 110
Toluene-d8		51.82	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		44.97	μg/L	1	50	89	81 - 105

Sample: 168736 - RA 3353

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 168736 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 168736 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.24	μg/L	1	50	100	89 - 110
Toluene-d8		51.93	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		44.27	μg/L	1	50	88	81 - 105

Sample: 168737 - KWB 1A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		18.2	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		2.71	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 168737 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		3.15	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.34	µg/L	1	50	100	89 - 110
Toluene-d8		51.95	µg/L	1	50	103	95 - 107
4-Bromofluorobenzene		44.39	µg/L	1	50	88	81 - 105

Sample: 168738 - KWB 1C

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10619	Date Analyzed:	4/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09118	Date Prepared:	4/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 168738 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		22.7	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		1.73	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		2.30	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 168738 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.80	μg/L	1	50	101	89 - 110
Toluene-d8		51.42	μg/L	1	50	102	95 - 107
4-Bromofluorobenzene		44.90	μg/L	1	50	89	81 - 105

Sample: 168739 - KWB 9

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10708	Date Analyzed:	4/23/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09182	Date Prepared:	4/23/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<5.00	μg/L	5	1
Dichlorodifluoromethane		<5.00	μg/L	5	1
Chloromethane (methyl chloride)		<5.00	μg/L	5	1
Vinyl Chloride		<5.00	μg/L	5	1
Bromomethane (methyl bromide)		<5.00	μg/L	5	1
Chloroethane		<5.00	μg/L	5	1
Trichlorofluoromethane		<5.00	μg/L	5	1
Acetone		<50.0	μg/L	5	10
Iodomethane (methyl iodide)		<25.0	μg/L	5	1
Carbon Disulfide		<5.00	μg/L	5	1
Acrylonitrile		<5.00	μg/L	5	1
2-Butanone (MEK)		<25.0	μg/L	5	5
4-methyl-2-pentanone (MIBK)		<25.0	μg/L	5	5
2-hexanone		<25.0	μg/L	5	5
trans 1,4-Dichloro-2-butene		<50.0	μg/L	5	10
1,1-Dichloroethene		<5.00	μg/L	5	1
Methylene chloride		<25.0	μg/L	5	5
MTBE		<5.00	μg/L	5	1
trans-1,2-Dichloroethene		<5.00	μg/L	5	1
1,1-Dichloroethane		<5.00	μg/L	5	1
cis-1,2-Dichloroethene		<5.00	μg/L	5	1
2,2-Dichloropropane		<5.00	μg/L	5	1
1,2-Dichloroethane (EDC)		<5.00	μg/L	5	1
Chloroform		<5.00	μg/L	5	1
1,1,1-Trichloroethane		<5.00	μg/L	5	1

Continued ...

... *Continued* Sample: 168739 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1-Dichloropropene		<5.00	μg/L	5	1
Benzene		33.6	μg/L	5	1
Carbon Tetrachloride		<5.00	μg/L	5	1
1,2-Dichloropropane		<5.00	μg/L	5	1
Trichloroethene (TCE)		<5.00	μg/L	5	1
Dibromomethane (methylene bromide)		<5.00	μg/L	5	1
Bromodichloromethane		<5.00	μg/L	5	1
2-Chloroethyl vinyl ether		<25.0	μg/L	5	5
cis-1,3-Dichloropropene		<5.00	μg/L	5	1
trans-1,3-Dichloropropene		<5.00	μg/L	5	1
Toluene		<5.00	μg/L	5	1
1,1,2-Trichloroethane		<5.00	μg/L	5	1
1,3-Dichloropropane		<5.00	μg/L	5	1
Dibromochloromethane		<5.00	μg/L	5	1
1,2-Dibromoethane (EDB)		<5.00	μg/L	5	1
Tetrachloroethene (PCE)		<5.00	μg/L	5	1
Chlorobenzene		<5.00	μg/L	5	1
1,1,1,2-Tetrachloroethane		<5.00	μg/L	5	1
Ethylbenzene		11.7	μg/L	5	1
m,p-Xylene		<5.00	μg/L	5	1
Bromoform		<5.00	μg/L	5	1
Styrene		<5.00	μg/L	5	1
o-Xylene		<5.00	μg/L	5	1
1,1,2,2-Tetrachloroethane		<5.00	μg/L	5	1
2-Chlorotoluene		<5.00	μg/L	5	1
1,2,3-Trichloropropane		<5.00	μg/L	5	1
Isopropylbenzene		<5.00	μg/L	5	1
Bromobenzene		<5.00	μg/L	5	1
n-Propylbenzene		<5.00	μg/L	5	1
1,3,5-Trimethylbenzene		<5.00	μg/L	5	1
tert-Butylbenzene		<5.00	μg/L	5	1
1,2,4-Trimethylbenzene		<5.00	μg/L	5	1
1,4-Dichlorobenzene (para)		<5.00	μg/L	5	1
sec-Butylbenzene		<5.00	μg/L	5	1
1,3-Dichlorobenzene		<5.00	μg/L	5	1
p-Isopropyltoluene		<5.00	μg/L	5	1
4-Chlorotoluene		<5.00	μg/L	5	1
1,2-Dichlorobenzene (ortho)		<5.00	μg/L	5	1
n-Butylbenzene		<5.00	μg/L	5	1
1,2-Dibromo-3-chloropropane		<25.0	μg/L	5	5
1,2,3-Trichlorobenzene		<25.0	μg/L	5	5
1,2,4-Trichlorobenzene		<25.0	μg/L	5	5
Naphthalene		<25.0	μg/L	5	1
Hexachlorobutadiene		<25.0	μg/L	5	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.85	μg/L	1	50	101	89 - 110
Toluene-d8		49.82	μg/L	1	50	99	95 - 107
4-Bromofluorobenzene		47.22	μg/L	1	50	94	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC10619

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.89	µg/L	1	50	97	89 - 110
Toluene-d8		49.89	µg/L	1	50	99	95 - 107
4-Bromofluorobenzene		46.75	µg/L	1	50	93	81 - 105

Method Blank

QCBatch: QC10708

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.48	μg/L	1	50	100	89 - 110
Toluene-d8		49.98	μg/L	1	50	99	95 - 107
4-Bromofluorobenzene		46.89	μg/L	1	50	93	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC10619

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	113	114	μg/L	1	100	<1.00	113	0	71 - 132	20
Benzene	100	99	μg/L	1	100	<1.00	100	1	81 - 114	20
Trichloroethene (TCE)	93	93	μg/L	1	100	<1.00	93	0	79 - 111	20
Toluene	96	96	μg/L	1	100	<1.00	96	0	81 - 110	20
Chlorobenzene	97	97	μg/L	1	100	<1.00	97	0	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.07	49.26	μg/L	1	50	100	98	89 - 110
Toluene-d8	49.41	49.95	μg/L	1	50	98	99	95 - 107
4-Bromofluorobenzene	46.58	46.02	μg/L	1	50	93	92	81 - 105

Laboratory Control Spikes QCBatch: QC10708

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	118	120	μg/L	1	100	<1.00	118	1	71 - 132	20
Benzene	102	104	μg/L	1	100	<1.00	102	1	81 - 114	20
Trichloroethene (TCE)	94	95	μg/L	1	100	<1.00	94	1	79 - 111	20
Toluene	103	102	μg/L	1	100	<1.00	103	0	81 - 110	20
Chlorobenzene	96	97	μg/L	1	100	<1.00	96	1	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.55	49.93	μg/L	1	50	101	99	89 - 110
Toluene-d8	48.31	48.59	μg/L	1	50	96	97	95 - 107
4-Bromofluorobenzene	47.93	47.35	μg/L	1	50	95	94	81 - 105

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC10619

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	101	101	80 - 120	4/19/01
1,1-Dichloroethene		µg/L	100	109	109	80 - 120	4/19/01
Chloroform		µg/L	100	101	101	80 - 120	4/19/01
1,2-Dichloropropane		µg/L	100	97	97	80 - 120	4/19/01
Toluene		µg/L	100	97	97	80 - 120	4/19/01
Chlorobenzene		µg/L	100	100	100	80 - 120	4/19/01
Ethylbenzene		µg/L	100	101	101	80 - 120	4/19/01
Dibromofluoromethane		µg/L	50	49.00	98	80 - 120	4/19/01
Toluene-d8		µg/L	50	48.88	97	80 - 120	4/19/01
4-Bromofluorobenzene		µg/L	50	50.47	100	80 - 120	4/19/01

CCV (1) QCBatch: QC10708

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	100	100	80 - 120	4/23/01
1,1-Dichloroethene		µg/L	100	111	111	80 - 120	4/23/01
Chloroform		µg/L	100	104	104	80 - 120	4/23/01
1,2-Dichloropropane		µg/L	100	100	100	80 - 120	4/23/01
Toluene		µg/L	100	99	99	80 - 120	4/23/01
Chlorobenzene		µg/L	100	96	96	80 - 120	4/23/01
Ethylbenzene		µg/L	100	98	98	80 - 120	4/23/01
Dibromofluoromethane		µg/L	50	53.87	107	80 - 120	4/23/01
Toluene-d8		µg/L	50	48.05	96	80 - 120	4/23/01
4-Bromofluorobenzene		µg/L	50	50.62	101	80 - 120	4/23/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 9, 2001

Order ID Number: A01041113

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
168731	KWB 2R	Water	4/10/01	9:00	4/11/01
168732	RA 3156	Water	4/10/01	9:10	4/11/01
168733	KWB 11A	Water	4/10/01	10:17	4/11/01
168734	KWB 7	Water	4/10/01	10:30	4/11/01
168735	KWB 3A	Water	4/10/01	10:55	4/11/01
168736	RA 3353	Water	4/10/01	9:50	4/11/01
168737	KWB 1A	Water	4/10/01	9:50	4/11/01
168738	KWB 1C	Water	4/10/01	10:55	4/11/01
168739	KWB 9	Water	4/10/01	11:05	4/11/01

This report consists of a total of 14 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 168731 - KWB 2R

Param	Flag	Result	Units
Bromochloromethane		<50.0	μg/L
Dichlorodifluoromethane		<50.0	μg/L
Chloromethane (methyl chloride)		<50.0	μg/L
Vinyl Chloride		<50.0	μg/L
Bromomethane (methyl bromide)		<50.0	μg/L
Chloroethane		<50.0	μg/L
Trichlorofluoromethane		<50.0	μg/L
Acetone		<500	μg/L
Iodomethane (methyl iodide)		<50.0	μg/L
Carbon Disulfide		<50.0	μg/L
Acrylonitrile		<50.0	μg/L
2-Butanone (MEK)		<250	μg/L
4-methyl-2-pentanone (MIBK)		<250	μg/L
2-hexanone		<250	μg/L
trans 1,4-Dichloro-2-butene		<500	μg/L
1,1-Dichloroethene		<50.0	μg/L
Methylene chloride		<250	μg/L
MTBE		<50.0	μg/L
trans-1,2-Dichloroethene		<50.0	μg/L
1,1-Dichloroethane		<50.0	μg/L
cis-1,2-Dichloroethene		<50.0	μg/L
2,2-Dichloropropane		<50.0	μg/L
1,2-Dichloroethane (EDC)		<50.0	μg/L
Chloroform		<50.0	μg/L

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Sample 168731 continued ...

Param	Flag	Result	Units
1,1,1-Trichloroethane		<50.0	μg/L
1,1-Dichloropropene		<50.0	μg/L
Benzene		1341	μg/L
Carbon Tetrachloride		<50.0	μg/L
1,2-Dichloropropane		<50.0	μg/L
Trichloroethene (TCE)		<50.0	μg/L
Dibromomethane (methylene bromide)		<50.0	μg/L
Bromodichloromethane		<50.0	μg/L
2-Chloroethyl vinyl ether		<250	μg/L
cis-1,3-Dichloropropene		<50.0	μg/L
trans-1,3-Dichloropropene		<50.0	μg/L
Toluene		<50.0	μg/L
1,1,2-Trichloroethane		<50.0	μg/L
1,3-Dichloropropane		<50.0	μg/L
Dibromochloromethane		<50.0	μg/L
1,2-Dibromoethane (EDB)		<50.0	μg/L
Tetrachloroethene (PCE)		<50.0	μg/L
Chlorobenzene		<50.0	μg/L
1,1,1,2-Tetrachloroethane		<50.0	μg/L
Ethylbenzene		888	μg/L
m,p-Xylene		61.1	μg/L
Bromoform		<50.0	μg/L
Styrene		<50.0	μg/L
o-Xylene		<50.0	μg/L
1,1,2,2-Tetrachloroethane		<50.0	μg/L
2-Chlorotoluene		<50.0	μg/L
1,2,3-Trichloropropane		<50.0	μg/L
Isopropylbenzene		70.7	μg/L
Bromobenzene		<50.0	μg/L
n-Propylbenzene		148	μg/L
1,3,5-Trimethylbenzene		<50.0	μg/L
tert-Butylbenzene		<50.0	μg/L
1,2,4-Trimethylbenzene		434	μg/L
1,4-Dichlorobenzene (para)		<50.0	μg/L
sec-Butylbenzene		<50.0	μg/L
1,3-Dichlorobenzene		<50.0	μg/L
p-Isopropyltoluene		<50.0	μg/L
4-Chlorotoluene		<50.0	μg/L
1,2-Dichlorobenzene (ortho)		<50.0	μg/L
n-Butylbenzene		<50.0	μg/L
1,2-Dibromo-3-chloropropane		<250	μg/L
1,2,3-Trichlorobenzene		<250	μg/L
1,2,4-Trichlorobenzene		<250	μg/L
Naphthalene		<250	μg/L
Hexachlorobutadiene		<250	μg/L

Sample: 168732 - RA 3156

Param	Flag	Result	Units
Bromochloromethane		<5.00	μg/L
Dichlorodifluoromethane		<5.00	μg/L
Chloromethane (methyl chloride)		<5.00	μg/L

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Sample 168732 continued ...

Param	Flag	Result	Units
Vinyl Chloride		<5.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<5.00	μg/L
Trichlorofluoromethane		<5.00	μg/L
Acetone		<50.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<5.00	μg/L
Acrylonitrile		<5.00	μg/L
2-Butanone (MEK)		<25.0	μg/L
4-methyl-2-pentanone (MIBK)		<25.0	μg/L
2-hexanone		<25.0	μg/L
trans 1,4-Dichloro-2-butene		<50.0	μg/L
1,1-Dichloroethene		<5.00	μg/L
Methylene chloride		<25.0	μg/L
MTBE		<5.00	μg/L
trans-1,2-Dichloroethene		<5.00	μg/L
1,1-Dichloroethane		<5.00	μg/L
cis-1,2-Dichloroethene		<5.00	μg/L
2,2-Dichloropropane		<5.00	μg/L
1,2-Dichloroethane (EDC)		<5.00	μg/L
Chloroform		<5.00	μg/L
1,1,1-Trichloroethane		<5.00	μg/L
1,1-Dichloropropene		<5.00	μg/L
Benzene		<5.00	μg/L
Carbon Tetrachloride		<5.00	μg/L
1,2-Dichloropropane		<5.00	μg/L
Trichloroethene (TCE)		<5.00	μg/L
Dibromomethane (methylene bromide)		<5.00	μg/L
Bromodichloromethane		<5.00	μg/L
2-Chloroethyl vinyl ether		<25.0	μg/L
cis-1,3-Dichloropropene		<5.00	μg/L
trans-1,3-Dichloropropene		<5.00	μg/L
Toluene		<5.00	μg/L
1,1,2-Trichloroethane		<5.00	μg/L
1,3-Dichloropropane		<5.00	μg/L
Dibromochloromethane		<5.00	μg/L
1,2-Dibromoethane (EDB)		<5.00	μg/L
Tetrachloroethene (PCE)		<5.00	μg/L
Chlorobenzene		<5.00	μg/L
1,1,1,2-Tetrachloroethane		<5.00	μg/L
Ethylbenzene		<5.00	μg/L
m,p-Xylene		<5.00	μg/L
Bromoform		<5.00	μg/L
Styrene		<5.00	μg/L
o-Xylene		<5.00	μg/L
1,1,2,2-Tetrachloroethane		<5.00	μg/L
2-Chlorotoluene		<5.00	μg/L
1,2,3-Trichloropropane		<5.00	μg/L
Isopropylbenzene		<5.00	μg/L
Bromobenzene		<5.00	μg/L
n-Propylbenzene		<5.00	μg/L
1,3,5-Trimethylbenzene		<5.00	μg/L
tert-Butylbenzene		<5.00	μg/L

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Sample 168732 continued ...

Param	Flag	Result	Units
1,2,4-Trimethylbenzene		<5.00	μg/L
1,4-Dichlorobenzene (para)		<5.00	μg/L
sec-Butylbenzene		<5.00	μg/L
1,3-Dichlorobenzene		<5.00	μg/L
p-Isopropyltoluene		<5.00	μg/L
4-Chlorotoluene		<5.00	μg/L
1,2-Dichlorobenzene (ortho)		<5.00	μg/L
n-Butylbenzene		<5.00	μg/L
1,2-Dibromo-3-chloropropane		<25.0	μg/L
1,2,3-Trichlorobenzene		<25.0	μg/L
1,2,4-Trichlorobenzene		<25.0	μg/L
Naphthalene		<25.0	μg/L
Hexachlorobutadiene		<25.0	μg/L

Sample: 168733 - KWB 11A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		3.14	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		6.57	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L

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Sample 168733 continued ...

Param	Flag	Result	Units
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		5.67	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		1.51	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168734 - KWB 7

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L

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Sample 168734 continued ...

Param	Flag	Result	Units
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		32.5	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		3.39	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		3.98	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		1.23	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L

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Sample 168734 continued ...

Param	Flag	Result	Units
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168735 - KWB 3A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		1.23	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L

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Sample 168735 continued ...

Param	Flag	Result	Units
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168736 - RA 3353

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L

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Sample 168736 continued . . .

Param	Flag	Result	Units
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168737 - KWB 1A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L

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Sample 168737 continued ...

Param	Flag	Result	Units
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		18.2	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		2.71	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		3.15	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L

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Sample 168737 continued . . .

Param	Flag	Result	Units
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168738 - KWB 1C

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		22.7	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		1.73	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L

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Sample 168738 continued ...

Param	Flag	Result	Units
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		2.30	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 168739 - KWB 9

Param	Flag	Result	Units
Bromochloromethane		<5.00	μg/L
Dichlorodifluoromethane		<5.00	μg/L
Chloromethane (methyl chloride)		<5.00	μg/L
Vinyl Chloride		<5.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<5.00	μg/L
Trichlorofluoromethane		<5.00	μg/L
Acetone		<50.0	μg/L
Iodomethane (methyl iodide)		<25.0	μg/L
Carbon Disulfide		<5.00	μg/L
Acrylonitrile		<5.00	μg/L
2-Butanone (MEK)		<25.0	μg/L
4-methyl-2-pentanone (MIBK)		<25.0	μg/L
2-hexanone		<25.0	μg/L
trans 1,4-Dichloro-2-butene		<50.0	μg/L

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Sample 168739 continued ...

Param	Flag	Result	Units
1,1-Dichloroethene		<5.00	μg/L
Methylene chloride		<25.0	μg/L
MTBE		<5.00	μg/L
trans-1,2-Dichloroethene		<5.00	μg/L
1,1-Dichloroethane		<5.00	μg/L
cis-1,2-Dichloroethene		<5.00	μg/L
2,2-Dichloropropane		<5.00	μg/L
1,2-Dichloroethane (EDC)		<5.00	μg/L
Chloroform		<5.00	μg/L
1,1,1-Trichloroethane		<5.00	μg/L
1,1-Dichloropropene		<5.00	μg/L
Benzene		33.6	μg/L
Carbon Tetrachloride		<5.00	μg/L
1,2-Dichloropropane		<5.00	μg/L
Trichloroethene (TCE)		<5.00	μg/L
Dibromomethane (methylene bromide)		<5.00	μg/L
Bromodichloromethane		<5.00	μg/L
2-Chloroethyl vinyl ether		<25.0	μg/L
cis-1,3-Dichloropropene		<5.00	μg/L
trans-1,3-Dichloropropene		<5.00	μg/L
Toluene		<5.00	μg/L
1,1,2-Trichloroethane		<5.00	μg/L
1,3-Dichloropropane		<5.00	μg/L
Dibromochloromethane		<5.00	μg/L
1,2-Dibromoethane (EDB)		<5.00	μg/L
Tetrachloroethene (PCE)		<5.00	μg/L
Chlorobenzene		<5.00	μg/L
1,1,1,2-Tetrachloroethane		<5.00	μg/L
Ethylbenzene		11.7	μg/L
m,p-Xylene		<5.00	μg/L
Bromoform		<5.00	μg/L
Styrene		<5.00	μg/L
o-Xylene		<5.00	μg/L
1,1,2,2-Tetrachloroethane		<5.00	μg/L
2-Chlorotoluene		<5.00	μg/L
1,2,3-Trichloropropane		<5.00	μg/L
Isopropylbenzene		<5.00	μg/L
Bromobenzene		<5.00	μg/L
n-Propylbenzene		<5.00	μg/L
1,3,5-Trimethylbenzene		<5.00	μg/L
tert-Butylbenzene		<5.00	μg/L
1,2,4-Trimethylbenzene		<5.00	μg/L
1,4-Dichlorobenzene (para)		<5.00	μg/L
sec-Butylbenzene		<5.00	μg/L
1,3-Dichlorobenzene		<5.00	μg/L
p-Isopropyltoluene		<5.00	μg/L
4-Chlorotoluene		<5.00	μg/L
1,2-Dichlorobenzene (ortho)		<5.00	μg/L
n-Butylbenzene		<5.00	μg/L
1,2-Dibromo-3-chloropropane		<25.0	μg/L
1,2,3-Trichlorobenzene		<25.0	μg/L
1,2,4-Trichlorobenzene		<25.0	μg/L
Naphthalene		<25.0	μg/L

Continued on next page ...

Sample 168739 continued ...

Param	Flag	Result	Units
Hexachlorobutadiene		<25.0	μg/L

168731-39

Page____of____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # AD1041113

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Parrell Moore
Invoice to: (If different from above)
Project #:
Project Name: Qtrly off
Project Location: Artesia
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	624				Turn Around Time if different from standard	Hold
168731	Kwb 2R	2	40ml						X						9:00																•					
	Kwb 12A *	2	40ml						X						915																•					
168732	RA 3156	2	40ml						X						910																•					
	RA 1227 *	2	40ml						X						920																•					
168733	Kwb 11A	2	40ml						X						~~1010~~ 1017																•					
168734	Kwb 7	2	40ml						X						1030																•					
35	Kwb 3A	2	40ml						X						1055																•					
36	RA 3353	2	40ml						X						950																•					
37	Kwb 1A	2	40ml						X						1055																•					
38	Kwb 1C	2	40ml						X						1105																•					
39	KW39																														•					

See list

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/10/01	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Dunaway	4-11-01	10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 5° °
Log-in Review MA

REMARKS:
* no sample
5/9/01

Carrier # Fedex 323-9865-1693

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 3, 2001

Order ID Number: A01041912

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
169305	MW-28	Water	4/18/01	14:50	4/19/01
169306	MW-29	Water	4/18/01	14:45	4/19/01
169307	MW-45	Water	4/18/01	14:30	4/19/01
169308	MW-18	Water	4/18/01	14:15	4/19/01
169309	NP-1	Water	4/18/01	9:50	4/19/01
169310	NP-2	Water	4/18/01	10:20	4/19/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 169305 - MW-28

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10754	Date Analyzed:	4/26/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09229	Date Prepared:	4/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<5.00	µg/L	5	1
Dichlorodifluoromethane		<5.00	µg/L	5	1
Chloromethane (methyl chloride)		<5.00	µg/L	5	1
Vinyl Chloride		<5.00	µg/L	5	1
Bromomethane (methyl bromide)		<5.00	µg/L	5	1
Chloroethane		<5.00	µg/L	5	1
Trichlorofluoromethane		<5.00	µg/L	5	1
Acetone		<50.0	µg/L	5	10
Iodomethane (methyl iodide)		<5.00	µg/L	5	1
Carbon Disulfide		<5.00	µg/L	5	1
Acrylonitrile		<5.00	µg/L	5	1
2-Butanone (MEK)		<25.0	µg/L	5	5
4-methyl-2-pentanone (MIBK)		<25.0	µg/L	5	5
2-hexanone		<25.0	µg/L	5	5
trans 1,4-Dichloro-2-butene		<50.0	µg/L	5	10
1,1-Dichloroethene		<5.00	µg/L	5	1
Methylene chloride		<25.0	µg/L	5	5
MTBE		847	µg/L	5	1
trans-1,2-Dichloroethene		<5.00	µg/L	5	1
1,1-Dichloroethane		<5.00	µg/L	5	1
cis-1,2-Dichloroethene		<5.00	µg/L	5	1
2,2-Dichloropropane		<5.00	µg/L	5	1
1,2-Dichloroethane (EDC)		<5.00	µg/L	5	1
Chloroform		<5.00	µg/L	5	1
1,1,1-Trichloroethane		<5.00	µg/L	5	1
1,1-Dichloropropene		<5.00	µg/L	5	1
Benzene		8.10	µg/L	5	1
Carbon Tetrachloride		<5.00	µg/L	5	1
1,2-Dichloropropane		<5.00	µg/L	5	1
Trichloroethene (TCE)		<5.00	µg/L	5	1
Dibromomethane (methylene bromide)		<5.00	µg/L	5	1
Bromodichloromethane		<5.00	µg/L	5	1
2-Chloroethyl vinyl ether		<25.0	µg/L	5	5
cis-1,3-Dichloropropene		<5.00	µg/L	5	1
trans-1,3-Dichloropropene		<5.00	µg/L	5	1
Toluene		<5.00	µg/L	5	1
1,1,2-Trichloroethane		<5.00	µg/L	5	1
1,3-Dichloropropane		<5.00	µg/L	5	1
Dibromochloromethane		<5.00	µg/L	5	1
1,2-Dibromoethane (EDB)		<5.00	µg/L	5	1
Tetrachloroethene (PCE)		<5.00	µg/L	5	1
Chlorobenzene		<5.00	µg/L	5	1
1,1,1,2-Tetrachloroethane		<5.00	µg/L	5	1
Ethylbenzene		<5.00	µg/L	5	1
m,p-Xylene		<5.00	µg/L	5	1
Bromoform		<5.00	µg/L	5	1
Styrene		<5.00	µg/L	5	1
o-Xylene		<5.00	µg/L	5	1

Continued ...

... *Continued* Sample: 169305 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<5.00	µg/L	5	1
2-Chlorotoluene		<5.00	µg/L	5	1
1,2,3-Trichloropropane		<5.00	µg/L	5	1
Isopropylbenzene		<5.00	µg/L	5	1
Bromobenzene		<5.00	µg/L	5	1
n-Propylbenzene		<5.00	µg/L	5	1
1,3,5-Trimethylbenzene		<5.00	µg/L	5	1
tert-Butylbenzene		<5.00	µg/L	5	1
1,2,4-Trimethylbenzene		<5.00	µg/L	5	1
1,4-Dichlorobenzene (para)		<5.00	µg/L	5	1
sec-Butylbenzene		<5.00	µg/L	5	1
1,3-Dichlorobenzene		<5.00	µg/L	5	1
p-Isopropyltoluene		<5.00	µg/L	5	1
4-Chlorotoluene		<5.00	µg/L	5	1
1,2-Dichlorobenzene (ortho)		<5.00	µg/L	5	1
n-Butylbenzene		<5.00	µg/L	5	1
1,2-Dibromo-3-chloropropane		<25.0	µg/L	5	5
1,2,3-Trichlorobenzene		<25.0	µg/L	5	5
1,2,4-Trichlorobenzene		<25.0	µg/L	5	5
Naphthalene		<25.0	µg/L	5	1
Hexachlorobutadiene		<25.0	µg/L	5	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.45	µg/L	1	50	104	89 - 110
Toluene-d8		52.20	µg/L	1	50	104	95 - 107
4-Bromofluorobenzene		43.91	µg/L	1	50	87	81 - 105

Sample: 169306 - MW-29

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10795	Date Analyzed:	4/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09257	Date Prepared:	4/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		2.43	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 169306 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		19.5	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		9.92	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.01	μg/L	1	50	96	89 - 110
Toluene-d8		51.55	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		48.08	μg/L	1	50	96	81 - 105

Sample: 169307 - MW-45

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10795	Date Analyzed:	4/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09257	Date Prepared:	4/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		5.83	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		1.64	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 169307 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		1.80	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		6.68	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.72	μg/L	1	50	95	89 - 110
Toluene-d8		51.81	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		47.99	μg/L	1	50	95	81 - 105

Sample: 169308 - MW-18

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10795	Date Analyzed:	4/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09257	Date Prepared:	4/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 169308 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		1.04	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 169308 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.08	μg/L	1	50	102	89 - 110
Toluene-d8		52.60	μg/L	1	50	105	95 - 107
4-Bromofluorobenzene		43.35	μg/L	1	50	86	81 - 105

Sample: 169309 - NP-1

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10795	Date Analyzed:	4/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09257	Date Prepared:	4/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		5.43	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 169309 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.18	μg/L	1	50	106	89 - 110
Toluene-d8	1	53.88	μg/L	1	50	107	95 - 107
4-Bromofluorobenzene		42.25	μg/L	1	50	84	81 - 105

Sample: 169310 - NP-2

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10795	Date Analyzed:	4/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09257	Date Prepared:	4/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1

Continued ...

[1]surrogate out of control limits. All other surrogates were within range for all samples in batch

... *Continued* Sample: 169310 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<1.00	μg/L	1	1
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		2.34	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		1.45	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 169310 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.81	μg/L	1	50	105	89 - 110
Toluene-d8		52.61	μg/L	1	50	105	95 - 107
4-Bromofluorobenzene		43.59	μg/L	1	50	87	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC10754

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.15	µg/L	1	50	102	89 - 110
Toluene-d8		52.26	µg/L	1	50	104	95 - 107
4-Bromofluorobenzene		43.67	µg/L	1	50	87	81 - 105

Method Blank QCBatch: QC10795

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.95	µg/L	1	50	105	89 - 110
Toluene-d8		52.63	µg/L	1	50	105	95 - 107
4-Bromofluorobenzene		44.45	µg/L	1	50	88	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC10754

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	116	117	µg/L	1	100	<1.00	116	0	71 - 132	20
Benzene	101	98	µg/L	1	100	<1.00	101	3	81 - 114	20
Trichloroethene (TCE)	91	89	µg/L	1	100	<1.00	91	2	79 - 111	20
Toluene	98	95	µg/L	1	100	<1.00	98	3	81 - 110	20
Chlorobenzene	98	95	µg/L	1	100	<1.00	98	3	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	51.34	51.64	µg/L	1	50	102	103	89 - 110
Toluene-d8	50.58	50.75	µg/L	1	50	101	101	95 - 107
4-Bromofluorobenzene	47.27	45.58	µg/L	1	50	94	91	81 - 105

Laboratory Control Spikes QCBatch: QC10795

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	121	119	µg/L	1	100	<1.00	121	1	71 - 132	20
Benzene	102	101	µg/L	1	100	<1.00	102	0	81 - 114	20
Trichloroethene (TCE)	91	89	µg/L	1	100	<1.00	91	2	79 - 111	20
Toluene	99	98	µg/L	1	100	<1.00	99	1	81 - 110	20
Chlorobenzene	98	97	µg/L	1	100	<1.00	98	1	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	51.05	53.01	µg/L	1	50	102	106	89 - 110
Toluene-d8	50.94	51.16	µg/L	1	50	101	102	95 - 107
4-Bromofluorobenzene	45.19	45.30	µg/L	1	50	90	90	81 - 105

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC10754

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	96	96	80 - 120	4/26/01
1,1-Dichloroethene		µg/L	100	105	105	80 - 120	4/26/01
Chloroform		µg/L	100	97	97	80 - 120	4/26/01
1,2-Dichloropropane		µg/L	100	96	96	80 - 120	4/26/01
Toluene		µg/L	100	95	95	80 - 120	4/26/01
Chlorobenzene		µg/L	100	94	94	80 - 120	4/26/01
Ethylbenzene		µg/L	100	98	98	80 - 120	4/26/01
Dibromofluoromethane		µg/L	50	49.11	98	80 - 120	4/26/01
Toluene-d8		µg/L	50	49.31	98	80 - 120	4/26/01
4-Bromofluorobenzene		µg/L	50	50.49	100	80 - 120	4/26/01

CCV (1) QCBatch: QC10795

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	100	100	80 - 120	4/25/01
1,1-Dichloroethene		µg/L	100	112	112	80 - 120	4/25/01
Chloroform		µg/L	100	104	104	80 - 120	4/25/01
1,2-Dichloropropane		µg/L	100	101	101	80 - 120	4/25/01
Toluene		µg/L	100	98	98	80 - 120	4/25/01
Chlorobenzene		µg/L	100	98	98	80 - 120	4/25/01
Ethylbenzene		µg/L	100	101	101	80 - 120	4/25/01
Dibromofluoromethane		µg/L	50	52.09	104	80 - 120	4/25/01
Toluene-d8		µg/L	50	49.98	99	80 - 120	4/25/01
4-Bromofluorobenzene		µg/L	50	51.31	102	80 - 120	4/25/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 3, 2001

Order ID Number: A01041912

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
169305	MW-28	Water	4/18/01	14:50	4/19/01
169306	MW-29	Water	4/18/01	14:45	4/19/01
169307	MW-45	Water	4/18/01	14:30	4/19/01
169308	MW-18	Water	4/18/01	14:15	4/19/01
169309	NP-1	Water	4/18/01	9:50	4/19/01
169310	NP-2	Water	4/18/01	10:20	4/19/01

This report consists of a total of 9 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 169305 - MW-28

Param	Flag	Result	Units
Bromochloromethane		<5.00	μg/L
Dichlorodifluoromethane		<5.00	μg/L
Chloromethane (methyl chloride)		<5.00	μg/L
Vinyl Chloride		<5.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<5.00	μg/L
Trichlorofluoromethane		<5.00	μg/L
Acetone		<50.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<5.00	μg/L
Acrylonitrile		<5.00	μg/L
2-Butanone (MEK)		<25.0	μg/L
4-methyl-2-pentanone (MIBK)		<25.0	μg/L
2-hexanone		<25.0	μg/L
trans 1,4-Dichloro-2-butene		<50.0	μg/L
1,1-Dichloroethene		<5.00	μg/L
Methylene chloride		<25.0	μg/L
MTBE		847	μg/L
trans-1,2-Dichloroethene		<5.00	μg/L
1,1-Dichloroethane		<5.00	μg/L
cis-1,2-Dichloroethene		<5.00	μg/L
2,2-Dichloropropane		<5.00	μg/L
1,2-Dichloroethane (EDC)		<5.00	μg/L
Chloroform		<5.00	μg/L
1,1,1-Trichloroethane		<5.00	μg/L
1,1-Dichloropropene		<5.00	μg/L
Benzene		8.10	μg/L

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Sample 169305 continued . . .

Param	Flag	Result	Units
Carbon Tetrachloride		<5.00	μg/L
1,2-Dichloropropane		<5.00	μg/L
Trichloroethene (TCE)		<5.00	μg/L
Dibromomethane (methylene bromide)		<5.00	μg/L
Bromodichloromethane		<5.00	μg/L
2-Chloroethyl vinyl ether		<25.0	μg/L
cis-1,3-Dichloropropene		<5.00	μg/L
trans-1,3-Dichloropropene		<5.00	μg/L
Toluene		<5.00	μg/L
1,1,2-Trichloroethane		<5.00	μg/L
1,3-Dichloropropane		<5.00	μg/L
Dibromochloromethane		<5.00	μg/L
1,2-Dibromoethane (EDB)		<5.00	μg/L
Tetrachloroethene (PCE)		<5.00	μg/L
Chlorobenzene		<5.00	μg/L
1,1,1,2-Tetrachloroethane		<5.00	μg/L
Ethylbenzene		<5.00	μg/L
m,p-Xylene		<5.00	μg/L
Bromoform		<5.00	μg/L
Styrene		<5.00	μg/L
o-Xylene		<5.00	μg/L
1,1,2,2-Tetrachloroethane		<5.00	μg/L
2-Chlorotoluene		<5.00	μg/L
1,2,3-Trichloropropane		<5.00	μg/L
Isopropylbenzene		<5.00	μg/L
Bromobenzene		<5.00	μg/L
n-Propylbenzene		<5.00	μg/L
1,3,5-Trimethylbenzene		<5.00	μg/L
tert-Butylbenzene		<5.00	μg/L
1,2,4-Trimethylbenzene		<5.00	μg/L
1,4-Dichlorobenzene (para)		<5.00	μg/L
sec-Butylbenzene		<5.00	μg/L
1,3-Dichlorobenzene		<5.00	μg/L
p-Isopropyltoluene		<5.00	μg/L
4-Chlorotoluene		<5.00	μg/L
1,2-Dichlorobenzene (ortho)		<5.00	μg/L
n-Butylbenzene		<5.00	μg/L
1,2-Dibromo-3-chloropropane		<25.0	μg/L
1,2,3-Trichlorobenzene		<25.0	μg/L
1,2,4-Trichlorobenzene		<25.0	μg/L
Naphthalene		<25.0	μg/L
Hexachlorobutadiene		<25.0	μg/L

Sample: 169306 - MW-29

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L

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Sample 169306 continued ...

Param	Flag	Result	Units
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		2.43	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		19.5	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		9.92	μg/L

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Sample 169306 continued . . .

Param	Flag	Result	Units
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 169307 - MW-45

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		5.83	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		1.64	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L

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Sample 169307 continued ...

Param	Flag	Result	Units
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		1.80	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		6.68	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 169308 - MW-18

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L

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Sample 169308 continued . . .

Param	Flag	Result	Units
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		1.04	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 169309 - NP-1

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		5.43	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L

Continued on next page ...

Sample 169309 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 169310 - NP-2

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<1.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		2.34	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		1.45	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L

Continued on next page ...

Sample 169310 continued ...

Param	Flag	Result	Units
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

169305-10

Page____of____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # AD1041912

Company Name: NAVAJO
Phone #: 5057483311
Address: (Street, City, Zip) 501 E Main
Fax #: 5057465421
Contact Person: Darrell Moore
Invoice to: (If different from above)
Project #:
Project Name: Qtrly offsite
Project Location: Artesia
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	624					Turn Around Time if different from standard	Hold
169305	MW28	2	40ml	X				X				X		4/18/01	1450																X						
06	MW29	2	40ml	X				X				X		4/18/01	1445																X						
07	MW45	2	40ml	X				X				X		4/18/01	1430																X						
08	MW18	2	40ml	X				X				X		4/18/01	1415																X						
09	NP1	2	40ml	X				X				X		4/18/01	950																X						
10	NP2	2	40ml	X				X				X		4/18/01	1020																X						

See list

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/18/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	4-19-01	10:00

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 2°
Log-in Review MB

REMARKS:
5/4/01

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 324-5452-576

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 25, 2001

Order ID Number: A01050212

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170348	RA1227	Water	5/1/01	10:45	5/2/01
170349	RA4798	Water	5/1/01	11:10	5/2/01
170350	RA4196	Water	5/1/01	11:00	5/2/01
170351	RA314	Water	5/1/01	11:20	5/2/01
170352	RA313	Water	5/1/01	11:30	5/2/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 170348 - RA1227

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10966	Date Analyzed:	5/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09400	Date Prepared:	5/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 170348 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.19	μg/L	1	50	104	89 - 110
Toluene-d8		50.73	μg/L	1	50	101	95 - 107
4-Bromofluorobenzene		44.22	μg/L	1	50	88	81 - 105

Sample: 170349 - RA4798

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC10966	Date Analyzed:	5/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09400	Date Prepared:	5/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 170349 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.19	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.61	µg/L	1	50	105	89 - 110
Toluene-d8		51.94	µg/L	1	50	103	95 - 107
4-Bromofluorobenzene		42.96	µg/L	1	50	85	81 - 105

Sample: 170350 - RA4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11105	Date Analyzed:	5/10/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09517	Date Prepared:	5/10/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 170350 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.47	μg/L	1	50	92	89 - 110
Toluene-d8		51.11	μg/L	1	50	102	95 - 107
4-Bromofluorobenzene		46.13	μg/L	1	50	92	81 - 105

Sample: 170351 - RA314

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11105	Date Analyzed:	5/10/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09517	Date Prepared:	5/10/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 170351 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 170351 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.91	μg/L	1	50	93	89 - 110
Toluene-d8		51.02	μg/L	1	50	102	95 - 107
4-Bromofluorobenzene		45.36	μg/L	1	50	90	81 - 105

Sample: 170352 - RA313

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11105	Date Analyzed:	5/10/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09517	Date Prepared:	5/10/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 170352 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.12	μg/L	1	50	96	89 - 110
Toluene-d8		52.40	μg/L	1	50	104	95 - 107
4-Bromofluorobenzene		44.38	μg/L	1	50	88	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC10966

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.75	µg/L	1	50	101	89 - 110
Toluene-d8		49.11	µg/L	1	50	98	95 - 107
4-Bromofluorobenzene		46.24	µg/L	1	50	92	81 - 105

Method Blank QCBatch: QC11105

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.76	µg/L	1	50	97	89 - 110
Toluene-d8		50.95	µg/L	1	50	101	95 - 107
4-Bromofluorobenzene		45.81	µg/L	1	50	91	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC10966

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	101	100	µg/L	1	100	<1.00	101	0	71 - 132	20
Benzene	108	107	µg/L	1	100	<1.00	108	0	81 - 114	20
Trichloroethene (TCE)	96	96	µg/L	1	100	<1.00	96	0	79 - 111	20
Toluene	107	105	µg/L	1	100	<1.00	107	1	81 - 110	20
Chlorobenzene	105	104	µg/L	1	100	<1.00	105	0	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.84	50.17	µg/L	1	50	101	100	89 - 110
Toluene-d8	48.11	49.60	µg/L	1	50	96	99	95 - 107
4-Bromofluorobenzene	46.56	42.60	µg/L	1	50	93	85	81 - 105

Laboratory Control Spikes QCBatch: QC11105

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	101	99	µg/L	1	100	<1.00	101	2	71 - 132	20
Benzene	102	101	µg/L	1	100	<1.00	102	0	81 - 114	20
Trichloroethene (TCE)	90	89	µg/L	1	100	<1.00	90	1	79 - 111	20
Toluene	100	99	µg/L	1	100	<1.00	100	1	81 - 110	20
Chlorobenzene	99	98	µg/L	1	100	<1.00	99	1	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	49.35	49.20	µg/L	1	50	98	98	89 - 110
Toluene-d8	49.71	50.44	µg/L	1	50	99	100	95 - 107
4-Bromofluorobenzene	46.65	46.58	µg/L	1	50	93	93	81 - 105

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC10966

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	95	95	80 - 120	5/5/01
1,1-Dichloroethene		µg/L	100	91	91	80 - 120	5/5/01
Chloroform		µg/L	100	104	104	80 - 120	5/5/01
1,2-Dichloropropane		µg/L	100	108	108	80 - 120	5/5/01
Toluene		µg/L	100	103	103	80 - 120	5/5/01
Chlorobenzene		µg/L	100	102	102	80 - 120	5/5/01
Ethylbenzene		µg/L	100	106	106	80 - 120	5/5/01
Dibromofluoromethane		µg/L	50	47.42	94	80 - 120	5/5/01
Toluene-d8		µg/L	50	47.68	95	80 - 120	5/5/01
4-Bromofluorobenzene		µg/L	50	51.58	103	80 - 120	5/5/01

CCV (1) QCBatch: QC11105

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	100	100	80 - 120	5/10/01
1,1-Dichloroethene		µg/L	100	93	93	80 - 120	5/10/01
Chloroform		µg/L	100	94	94	80 - 120	5/10/01
1,2-Dichloropropane		µg/L	100	100	100	80 - 120	5/10/01
Toluene		µg/L	100	99	99	80 - 120	5/10/01
Chlorobenzene		µg/L	100	97	97	80 - 120	5/10/01
Ethylbenzene		µg/L	100	101	101	80 - 120	5/10/01
Dibromofluoromethane		µg/L	50	44.38	88	80 - 120	5/10/01
Toluene-d8		µg/L	50	50.08	100	80 - 120	5/10/01
4-Bromofluorobenzene		µg/L	50	53.40	106	80 - 120	5/10/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 25, 2001

Order ID Number: A01050212

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
170348	RA1227	Water	5/1/01	10:45	5/2/01
170349	RA4798	Water	5/1/01	11:10	5/2/01
170350	RA4196	Water	5/1/01	11:00	5/2/01
170351	RA314	Water	5/1/01	11:20	5/2/01
170352	RA313	Water	5/1/01	11:30	5/2/01

This report consists of a total of 8 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 170348 - RA1227

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L

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Sample 170348 continued ...

Param	Flag	Result	Units
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 170349 - RA4798

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L

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Sample 170349 continued ...

Param	Flag	Result	Units
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		2.19	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L

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Sample 170349 continued ...

Param	Flag	Result	Units
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 170350 - RA4196

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L

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Sample 170350 continued ...

Param	Flag	Result	Units
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 170351 - RA314

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<1.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L

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Sample 170351 continued ...

Param	Flag	Result	Units
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 170352 - RA313

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<1.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L

Continued on next page ...

Sample 170352 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

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Lubbock, Texas 79424
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Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0105021 2

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Parrell Moore
Invoice to: (If different from above)
Project #: A
Project Name: Monthly offsite
Project Location: Artesia
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	624					Turn Around Time if different from standard	Hold
170348	RA 1227	2	40ml	X				X				X		5/1/01	10:45																X						
49	RA 4798	2	40ml	X				X				X		5/1/01	11:10	NA				See list											X						
50	RA 4196	2	40ml	X				X				X		5/1/01	1100																X						
51	RA 314	2	40ml	X				X				X		5/1/01	1120																X						
52	RA 313	2	40ml	X				X				X		5/1/01	1130																X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	5/1/01	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	5-2-01	10:00

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 4 °
Log-in Review NA

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 324 1372 714

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 30, 2001

Order ID Number: A01052313

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171757	RA 313	Water	5/22/01	13:40	5/23/01
171758	RA 4196	Water	5/22/01	13:50	5/23/01
171759	RA 4798	Water	5/22/01	13:45	5/23/01
171760	RA 1331	Water	5/22/01	14:00	5/23/01
171761	RA 307	Water	5/22/01	13:55	5/23/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 171757 - RA 313

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11504	Date Analyzed:	5/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09839	Date Prepared:	5/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 171757 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.02	µg/L	1	50	90	89 - 110
Toluene-d8		49.91	µg/L	1	50	99	95 - 107
4-Bromofluorobenzene		47.05	µg/L	1	50	94	81 - 105

Sample: 171758 - RA 4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11504	Date Analyzed:	5/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09839	Date Prepared:	5/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 171758 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.32	μg/L	1	50	96	89 - 110
Toluene-d8		50.41	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		48.14	μg/L	1	50	96	81 - 105

Sample: 171759 - RA 4798

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11504	Date Analyzed:	5/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09839	Date Prepared:	5/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.33	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 171759 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.76	µg/L	1	50	95	89 - 110
Toluene-d8		51.03	µg/L	1	50	102	95 - 107
4-Bromofluorobenzene		47.62	µg/L	1	50	95	81 - 105

Sample: 171760 - RA 1331

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11504	Date Analyzed:	5/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09839	Date Prepared:	5/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5

Continued ...

... *Continued* Sample: 171760 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 171760 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.41	μg/L	1	50	98	89 - 110
Toluene-d8		50.32	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		46.96	μg/L	1	50	93	81 - 105

Sample: 171761 - RA 307

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC11504	Date Analyzed:	5/25/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB09839	Date Prepared:	5/25/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 171761 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.03	μg/L	1	50	100	89 - 110
Toluene-d8		50.65	μg/L	1	50	101	95 - 107
4-Bromofluorobenzene		47.68	μg/L	1	50	95	81 - 105

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: May 30, 2001

Order ID Number: A01052313

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171757	RA 313	Water	5/22/01	13:40	5/23/01
171758	RA 4196	Water	5/22/01	13:50	5/23/01
171759	RA 4798	Water	5/22/01	13:45	5/23/01
171760	RA 1331	Water	5/22/01	14:00	5/23/01
171761	RA 307	Water	5/22/01	13:55	5/23/01

This report consists of a total of 8 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 171757 - RA 313

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L

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Sample 171757 continued . . .

Param	Flag	Result	Units
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 171758 - RA 4196

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L

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Sample 171758 continued ...

Param	Flag	Result	Units
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L

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Sample 171758 continued . . .

Param	Flag	Result	Units
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 171759 - RA 4798

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		2.33	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L

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Sample 171759 continued ...

Param	Flag	Result	Units
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 171760 - RA 1331

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L

Continued on next page ...

Sample 171760 continued ...

Param	Flag	Result	Units
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

~~Sample: 171761 - RA 307~~

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L

Continued on next page ...

Sample 171761 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Quality Control Report
Method Blank

Method Blank QCBatch: QC11504

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.61	µg/L	1	50	99	89 - 110
Toluene-d8		50.43	µg/L	1	50	100	95 - 107
4-Bromofluorobenzene		48.81	µg/L	1	50	97	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC11504

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	101	104	µg/L	1	100	<1.00	101	2	71 - 132	20
Benzene	100	104	µg/L	1	100	<1.00	100	3	81 - 114	20
Trichloroethene (TCE)	88	92	µg/L	1	100	<1.00	88	4	79 - 111	20
Toluene	102	106	µg/L	1	100	<1.00	102	3	81 - 110	20
Chlorobenzene	98	102	µg/L	1	100	<1.00	98	4	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.17	49.21	µg/L	1	50	100	98	89 - 110
Toluene-d8	48.52	48.76	µg/L	1	50	97	97	95 - 107
4-Bromofluorobenzene	48.05	48.19	µg/L	1	50	96	96	81 - 105

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC11504

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	89	89	80 - 120	5/25/01
1,1-Dichloroethene		µg/L	100	95	95	80 - 120	5/25/01
Chloroform		µg/L	100	99	99	80 - 120	5/25/01
1,2-Dichloropropane		µg/L	100	103	103	80 - 120	5/25/01
Toluene		µg/L	100	103	103	80 - 120	5/25/01
Chlorobenzene		µg/L	100	101	101	80 - 120	5/25/01
Ethylbenzene		µg/L	100	107	107	80 - 120	5/25/01
Dibromofluoromethane		µg/L	50	48.06	96	80 - 120	5/25/01
Toluene-d8		µg/L	50	48.79	97	80 - 120	5/25/01
4-Bromofluorobenzene		µg/L	50	50.84	101	80 - 120	5/25/01

171757-61

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6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0105 2313

Company Name: NAVAJO

Phone #: 5057483311

Address: (Street, City, Zip) 501 E Main

Fax #:

Contact Person: Parrell Moore

Invoice to:
(If different from above)

Project #:

Project Name: Mo. offsite

Project Location: Aztecsda

Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
171757	RA313	2	40	X				X				X			1340																	
58	RA4196	2	40	X				X				X			1350				See list													
59	RA4798	2	40	X				X				X			1345																	
60	RA1331	2	40	X				X				X			1400																	
61	RA307	2	40	X				X				X			1355																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	9/22/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Chesley	5-23-01	Time:

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp / °

Log-in Review NA

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 327 8205 9105

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: July 9, 2001

Order ID Number: A01062914

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
174464	RA 313	Water	6/28/01	14:30	6/29/01
174465	RA 314	Water	6/28/01	14:35	6/29/01
174466	RA 4196	Water	6/28/01	14:48	6/29/01
174467	RA 4798	Water	6/28/01	14:55	6/29/01
174468	RA 1331	Water	6/28/01	14:45	6/29/01
174469	RA 1227	Water	6/28/01	14:40	6/29/01
174470	RA 307	Water	6/28/01	14:43	6/29/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 174464 - RA 313

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 174464 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.09	μg/L	1	50	106	89 - 110
Toluene-d8		51.73	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		48.33	μg/L	1	50	96	81 - 105

Sample: 174465 - RA 314

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 174465 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.21	μg/L	1	50	104	89 - 110
Toluene-d8		51.55	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		48.30	μg/L	1	50	96	81 - 105

Sample: 174466 - RA 4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		3.50	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 174466 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.97	μg/L	1	50	105	89 - 110
Toluene-d8		51.42	μg/L	1	50	102	95 - 107
4-Bromofluorobenzene		47.89	μg/L	1	50	95	81 - 105

Sample: 174467 - RA 4798

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 174467 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.67	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 174467 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.05	μg/L	1	50	108	89 - 110
Toluene-d8		51.56	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		47.71	μg/L	1	50	95	81 - 105

Sample: 174468 - RA 1331

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 174468 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.77	μg/L	1	50	109	89 - 110
Toluene-d8		51.55	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		47.74	μg/L	1	50	95	81 - 105

Sample: 174469 - RA 1227

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 174469 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 174469 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.45	μg/L	1	50	108	89 - 110
Toluene-d8		51.69	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		47.71	μg/L	1	50	95	81 - 105

Sample: 174470 - RA 307

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12426	Date Analyzed:	7/5/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10626	Date Prepared:	7/5/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<1.00	μg/L	1	1
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 174470 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.87	μg/L	1	50	107	89 - 110
Toluene-d8		51.79	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		48.03	μg/L	1	50	96	81 - 105

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: July 9, 2001

Order ID Number: A01062914

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
174464	RA 313	Water	6/28/01	14:30	6/29/01
174465	RA 314	Water	6/28/01	14:35	6/29/01
174466	RA 4196	Water	6/28/01	14:48	6/29/01
174467	RA 4798	Water	6/28/01	14:55	6/29/01
174468	RA 1331	Water	6/28/01	14:45	6/29/01
174469	RA 1227	Water	6/28/01	14:40	6/29/01
174470	RA 307	Water	6/28/01	14:43	6/29/01

This report consists of a total of 11 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 174464 - RA 313

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L

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Sample 174464 continued ...

Param	Flag	Result	Units
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 174465 - RA 314

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L

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Sample 174465 continued ...

Param	Flag	Result	Units
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L

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Sample 174465 continued . . .

Param	Flag	Result	Units
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 174466 - RA 4196

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		3.50	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L

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Sample 174466 continued ...

Param	Flag	Result	Units
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 174467 - RA 4798

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L

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Sample 174467 continued ...

Param	Flag	Result	Units
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		2.67	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 174468 - RA 1331

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L

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Sample 174468 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 174469 - RA 1227

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L

Continued on next page ...

Sample 174469 continued ...

Param	Flag	Result	Units
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 174470 - RA 307

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<1.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L

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Sample 174470 continued ...

Param	Flag	Result	Units
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L

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Sample 174470 continued ...

Param	Flag	Result	Units
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Page_____of_____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01062914

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Darrell Moore
Invoice to: (If different from above)
Project #:
Project Name: Monthly offsite
Project Location:
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
174464	RA313	2	40ml	X				X				X		6/28/01	1430			See list														
65	RA314	2	40ml	X				X				X		6/28/01	1435																	
66	RA4196	2	40ml	X				X				X		6/28/01	1448																	
67	RA4798	2	40ml	X				X				X		6/28/01	1455																	
68	RA1331	2	40ml	X				X				X		6/28/01	1445																	
69	RA1227	2	40ml	X				X				X		6/28/01	1440																	
70	RA307	2	40ml	X				X				X		6/28/01	1443																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	6/28/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Lemsley	6-29-01	10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3 °
Log-in Review MA

REMARKS:
7/9/01

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 329 7060 882

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: July 26, 2001

Order ID Number: A01071804

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175341	RA 3156	Water	7/17/01	10:35	7/18/01
175342	RA 1227	Water	7/17/01	10:45	7/18/01
175343	RA 4196	Water	7/17/01	11:00	7/18/01
175344	RA 4798	Water	7/17/01	11:05	7/18/01
175345	RA 307	Water	7/17/01	10:55	7/18/01
175346	RA 1331	Water	7/17/01	10:55	7/18/01
175347	RA 313	Water	7/17/01	11:10	7/18/01
175348	Larue Well	Water	7/17/01	10:40	7/18/01
175349	RA 314	Water	7/17/01	10:20	7/18/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 175341 - RA 3156

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		1.19	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175341 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.40	µg/L	1	50	94	89 - 110
Toluene-d8		50.94	µg/L	1	50	101	95 - 107
4-Bromofluorobenzene		48.25	µg/L	1	50	96	81 - 105

Sample: 175342 - RA 1227

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175342 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.05	µg/L	1	50	96	89 - 110
Toluene-d8		50.80	µg/L	1	50	101	95 - 107
4-Bromofluorobenzene		47.41	µg/L	1	50	94	81 - 105

Sample: 175343 - RA 4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175343 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.11	μg/L	1	50	94	89 - 110
Toluene-d8		51.71	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		48.25	μg/L	1	50	96	81 - 105

Sample: 175344 - RA 4798

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 175344 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		1.01	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.43	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... Continued Sample: 175344 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.23	μg/L	1	50	96	89 - 110
Toluene-d8		51.55	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		47.69	μg/L	1	50	95	81 - 105

Sample: 175345 - RA 307

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175345 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.34	μg/L	1	50	96	89 - 110
Toluene-d8		51.65	μg/L	1	50	103	95 - 107
4-Bromofluorobenzene		47.31	μg/L	1	50	94	81 - 105

Sample: 175346 - RA 1331

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175346 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175346 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.34	μg/L	1	50	98	89 - 110
Toluene-d8		50.77	μg/L	1	50	101	95 - 107
4-Bromofluorobenzene		47.28	μg/L	1	50	94	81 - 105

Sample: 175347 - RA 313

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175347 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.05	µg/L	1	50	100	89 - 110
Toluene-d8		51.26	µg/L	1	50	102	95 - 107
4-Bromofluorobenzene		47.46	µg/L	1	50	94	81 - 105

Sample: 175348 - Larue Well

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12814	Date Analyzed:	7/23/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10957	Date Prepared:	7/23/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<100	µg/L	100	1

Continued ...

... *Continued* Sample: 175348 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Dichlorodifluoromethane		<100	μg/L	100	1
Chloromethane (methyl chloride)		<100	μg/L	100	1
Vinyl Chloride		<100	μg/L	100	1
Bromomethane (methyl bromide)		<500	μg/L	100	5
Chloroethane		<100	μg/L	100	1
Trichlorofluoromethane		<100	μg/L	100	1
Acetone	1	18259	μg/L	100	10
Iodomethane (methyl iodide)		<500	μg/L	100	5
Carbon Disulfide		<100	μg/L	100	1
Acrylonitrile		<100	μg/L	100	1
2-Butanone (MEK)		12346	μg/L	100	5
4-methyl-2-pentanone (MIBK)		<500	μg/L	100	5
2-hexanone		<500	μg/L	100	5
trans 1,4-Dichloro-2-butene		<1000	μg/L	100	10
1,1-Dichloroethene		<100	μg/L	100	1
Methylene chloride		<500	μg/L	100	5
MTBE		<100	μg/L	100	1
trans-1,2-Dichloroethene		<100	μg/L	100	1
1,1-Dichloroethane		<100	μg/L	100	1
cis-1,2-Dichloroethene		<100	μg/L	100	1
2,2-Dichloropropane		<100	μg/L	100	1
1,2-Dichloroethane (EDC)		<100	μg/L	100	1
Chloroform		<100	μg/L	100	1
1,1,1-Trichloroethane		<100	μg/L	100	1
1,1-Dichloropropene		<100	μg/L	100	1
Benzene		<100	μg/L	100	1
Carbon Tetrachloride		<100	μg/L	100	1
1,2-Dichloropropane		<100	μg/L	100	1
Trichloroethene (TCE)		<100	μg/L	100	1
Dibromomethane (methylene bromide)		<100	μg/L	100	1
Bromodichloromethane		<100	μg/L	100	1
2-Chloroethyl vinyl ether		<500	μg/L	100	5
cis-1,3-Dichloropropene		<100	μg/L	100	1
trans-1,3-Dichloropropene		<100	μg/L	100	1
Toluene		<100	μg/L	100	1
1,1,2-Trichloroethane		<100	μg/L	100	1
1,3-Dichloropropane		<100	μg/L	100	1
Dibromochloromethane		<100	μg/L	100	1
1,2-Dibromoethane (EDB)		<100	μg/L	100	1
Tetrachloroethene (PCE)		<100	μg/L	100	1
Chlorobenzene		<100	μg/L	100	1
1,1,1,2-Tetrachloroethane		<100	μg/L	100	1
Ethylbenzene		<100	μg/L	100	1
m,p-Xylene		<100	μg/L	100	1
Bromoform		<100	μg/L	100	1
Styrene		<100	μg/L	100	1
o-Xylene		<100	μg/L	100	1
1,1,2,2-Tetrachloroethane		<100	μg/L	100	1
2-Chlorotoluene		<100	μg/L	100	1
1,2,3-Trichloropropane		<100	μg/L	100	1
Isopropylbenzene		<100	μg/L	100	1
Bromobenzene		<100	μg/L	100	1
n-Propylbenzene		<100	μg/L	100	1

Continued ...

[1]estimated concentration, RSD value above 15% on intial calibration

... *Continued* Sample: 175348 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3,5-Trimethylbenzene		<100	μg/L	100	1
tert-Butylbenzene		<100	μg/L	100	1
1,2,4-Trimethylbenzene		<100	μg/L	100	1
1,4-Dichlorobenzene (para)		<100	μg/L	100	1
sec-Butylbenzene		<100	μg/L	100	1
1,3-Dichlorobenzene		<100	μg/L	100	1
p-Isopropyltoluene		<100	μg/L	100	1
4-Chlorotoluene		<100	μg/L	100	1
1,2-Dichlorobenzene (ortho)		<100	μg/L	100	1
n-Butylbenzene		<100	μg/L	100	1
1,2-Dibromo-3-chloropropane		<500	μg/L	100	5
1,2,3-Trichlorobenzene		<500	μg/L	100	5
1,2,4-Trichlorobenzene		<500	μg/L	100	5
Naphthalene		<500	μg/L	100	1
Hexachlorobutadiene		<500	μg/L	100	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.63	μg/L	100	50	101	89 - 110
Toluene-d8		50.90	μg/L	100	50	101	95 - 107
4-Bromofluorobenzene		46.95	μg/L	100	50	93	81 - 105

Sample: 175349 - RA 314

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12711	Date Analyzed:	7/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB10868	Date Prepared:	7/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175349 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.43	μg/L	1	50	98	89 - 110
Toluene-d8		50.78	μg/L	1	50	101	95 - 107
4-Bromofluorobenzene		47.42	μg/L	1	50	94	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC12711

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.63	µg/L	1	50	95	89 - 110
Toluene-d8		50.90	µg/L	1	50	101	95 - 107
4-Bromofluorobenzene		47.82	µg/L	1	50	95	81 - 105

Method Blank

QCBatch: QC12814

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.48	µg/L	1	50	104	89 - 110
Toluene-d8		51.12	µg/L	1	50	102	95 - 107
4-Bromofluorobenzene		46.84	µg/L	1	50	93	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12711

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	90	95	µg/L	1	100	<1.00	90	5	71 - 132	20
Benzene	99	105	µg/L	1	100	<1.00	99	5	81 - 114	20
Trichloroethene (TCE)	86	90	µg/L	1	100	<1.00	86	4	79 - 111	20
Toluene	98	105	µg/L	1	100	<1.00	98	6	81 - 110	20
Chlorobenzene	99	104	µg/L	1	100	<1.00	99	4	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	47.33	45.39	µg/L	1	50	94	90	89 - 110
Toluene-d8	48.52	49.35	µg/L	1	50	97	98	95 - 107
4-Bromofluorobenzene	48.23	48.23	µg/L	1	50	96	96	81 - 105

Laboratory Control Spikes QCBatch: QC12814

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	97	97	µg/L	1	100	<1.00	97	0	71 - 132	20
Benzene	97	98	µg/L	1	100	<1.00	97	1	81 - 114	20
Trichloroethene (TCE)	82	81	µg/L	1	100	<1.00	82	1	79 - 111	20
Toluene	97	97	µg/L	1	100	<1.00	97	0	81 - 110	20
Chlorobenzene	95	97	µg/L	1	100	<1.00	95	2	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	51.05	51.46	µg/L	1	50	102	102	89 - 110
Toluene-d8	49.41	49.46	µg/L	1	50	98	98	95 - 107
4-Bromofluorobenzene	47.15	47.49	µg/L	1	50	94	94	81 - 105

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12711

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	97	97	80 - 120	7/19/01
1,1-Dichloroethene		µg/L	100	94	94	80 - 120	7/19/01
Chloroform		µg/L	100	98	98	80 - 120	7/19/01
1,2-Dichloropropane		µg/L	100	106	106	80 - 120	7/19/01
Toluene		µg/L	100	101	101	80 - 120	7/19/01
Chlorobenzene		µg/L	100	100	100	80 - 120	7/19/01
Ethylbenzene		µg/L	100	104	104	80 - 120	7/19/01
Dibromofluoromethane		µg/L	50	41.48	82	80 - 120	7/19/01
Toluene-d8		µg/L	50	49.44	98	80 - 120	7/19/01
4-Bromofluorobenzene		µg/L	50	50.80	101	80 - 120	7/19/01

CCV (1) QCBatch: QC12814

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	89	89	80 - 120	7/23/01
1,1-Dichloroethene		µg/L	100	88	88	80 - 120	7/23/01
Chloroform		µg/L	100	101	101	80 - 120	7/23/01
1,2-Dichloropropane		µg/L	100	110	110	80 - 120	7/23/01
Toluene		µg/L	100	102	102	80 - 120	7/23/01
Chlorobenzene		µg/L	100	100	100	80 - 120	7/23/01
Ethylbenzene		µg/L	100	106	106	80 - 120	7/23/01
Dibromofluoromethane		µg/L	50	51.64	103	80 - 120	7/23/01
Toluene-d8		µg/L	50	49.33	98	80 - 120	7/23/01
4-Bromofluorobenzene		µg/L	50	50.85	101	80 - 120	7/23/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: July 26, 2001

Order ID Number: A01071804

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175341	RA 3156	Water	7/17/01	10:35	7/18/01
175342	RA 1227	Water	7/17/01	10:45	7/18/01
175343	RA 4196	Water	7/17/01	11:00	7/18/01
175344	RA 4798	Water	7/17/01	11:05	7/18/01
175345	RA 307	Water	7/17/01	10:55	7/18/01
175346	RA 1331	Water	7/17/01	10:55	7/18/01
175347	RA 313	Water	7/17/01	11:10	7/18/01
175348	Larue Well	Water	7/17/01	10:40	7/18/01
175349	RA 314	Water	7/17/01	10:20	7/18/01

This report consists of a total of 14 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 175341 - RA 3156

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		1.19	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L

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Sample 175341 continued ...

Param	Flag	Result	Units
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175342 - RA 1227

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L

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Sample 175342 continued ...

Param	Flag	Result	Units
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L

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Sample 175342 continued ...

Param	Flag	Result	Units
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175343 - RA 4196

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L

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Sample 175343 continued ...

Param	Flag	Result	Units
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 175344 - RA 4798

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L

Continued on next page ...

Sample 175344 continued ...

Param	Flag	Result	Units
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		1.01	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		2.43	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L

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Sample 175344 continued ...

Param	Flag	Result	Units
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175345 - RA 307

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L

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Sample 175345 continued ...

Param	Flag	Result	Units
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175346 - RA 1331

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L

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Sample 175346 continued ...

Param	Flag	Result	Units
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175347 - RA 313

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L

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Sample 175347 continued ...

Param	Flag	Result	Units
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L

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Sample 175347 continued ...

Param	Flag	Result	Units
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175348 - Larue Well

Param	Flag	Result	Units
Bromochloromethane		<100	μg/L
Dichlorodifluoromethane		<100	μg/L
Chloromethane (methyl chloride)		<100	μg/L
Vinyl Chloride		<100	μg/L
Bromomethane (methyl bromide)		<500	μg/L
Chloroethane		<100	μg/L
Trichlorofluoromethane		<100	μg/L
Acetone	1	18259	μg/L
Iodomethane (methyl iodide)		<500	μg/L
Carbon Disulfide		<100	μg/L
Acrylonitrile		<100	μg/L
2-Butanone (MEK)		12346	μg/L
4-methyl-2-pentanone (MIBK)		<500	μg/L
2-hexanone		<500	μg/L
trans 1,4-Dichloro-2-butene		<1000	μg/L
1,1-Dichloroethene		<100	μg/L
Methylene chloride		<500	μg/L
MTBE		<100	μg/L
trans-1,2-Dichloroethene		<100	μg/L
1,1-Dichloroethane		<100	μg/L
cis-1,2-Dichloroethene		<100	μg/L
2,2-Dichloropropane		<100	μg/L
1,2-Dichloroethane (EDC)		<100	μg/L
Chloroform		<100	μg/L
1,1,1-Trichloroethane		<100	μg/L
1,1-Dichloropropene		<100	μg/L
Benzene		<100	μg/L
Carbon Tetrachloride		<100	μg/L
1,2-Dichloropropane		<100	μg/L
Trichloroethene (TCE)		<100	μg/L
Dibromomethane (methylene bromide)		<100	μg/L
Bromodichloromethane		<100	μg/L
2-Chloroethyl vinyl ether		<500	μg/L
cis-1,3-Dichloropropene		<100	μg/L

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[1]estimated concentration, RSD value above 15% on intial calibration

Sample 175348 continued ...

Param	Flag	Result	Units
trans-1,3-Dichloropropene		<100	µg/L
Toluene		<100	µg/L
1,1,2-Trichloroethane		<100	µg/L
1,3-Dichloropropane		<100	µg/L
Dibromochloromethane		<100	µg/L
1,2-Dibromoethane (EDB)		<100	µg/L
Tetrachloroethene (PCE)		<100	µg/L
Chlorobenzene		<100	µg/L
1,1,1,2-Tetrachloroethane		<100	µg/L
Ethylbenzene		<100	µg/L
m,p-Xylene		<100	µg/L
Bromoform		<100	µg/L
Styrene		<100	µg/L
o-Xylene		<100	µg/L
1,1,2,2-Tetrachloroethane		<100	µg/L
2-Chlorotoluene		<100	µg/L
1,2,3-Trichloropropane		<100	µg/L
Isopropylbenzene		<100	µg/L
Bromobenzene		<100	µg/L
n-Propylbenzene		<100	µg/L
1,3,5-Trimethylbenzene		<100	µg/L
tert-Butylbenzene		<100	µg/L
1,2,4-Trimethylbenzene		<100	µg/L
1,4-Dichlorobenzene (para)		<100	µg/L
sec-Butylbenzene		<100	µg/L
1,3-Dichlorobenzene		<100	µg/L
p-Isopropyltoluene		<100	µg/L
4-Chlorotoluene		<100	µg/L
1,2-Dichlorobenzene (ortho)		<100	µg/L
n-Butylbenzene		<100	µg/L
1,2-Dibromo-3-chloropropane		<500	µg/L
1,2,3-Trichlorobenzene		<500	µg/L
1,2,4-Trichlorobenzene		<500	µg/L
Naphthalene		<500	µg/L
Hexachlorobutadiene		<500	µg/L

Sample: 175349 - RA 314

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L

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Sample 175349 continued ...

Param	Flag	Result	Units
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L

Continued on next page ...

Sample 175349 continued ...

Param	Flag	Result	Units
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

175341 -49

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6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
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Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01071804

Company Name: NAVAJO
Phone #: 5057483311
Address: (Street, City, Zip) 501 E. Main
Fax #: 5057465421
Contact Person: Darrell Moore or Charlie Phymate
Invoice to: (If different from above)
Project #:
Project Name: Qtrly offsite
Project Location:
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH						Turn Around Time if different from standard	Hold
175341	RA 3156	2	40ml	X										7/17/01	1035																						
42	RA 1227	2	40ml	X										7/17/01	1045																						
43	RA 4196	2	40ml	X										7/17/01	1100																						
44	RA 4798	2	40ml	X										7/17/01	1105																						
45	RA 307	2	40ml	X										7/17/01	1055																						
46	RA 1331	2	40ml	X										7/17/01	1050																						
47	RA313	2	40ml	X										7/17/01	1110																						
48	large well	2	40ml	X										7/17/01	1040																						
49	RA 314	2		✓										7/17/01	1020																						

Seal list.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	7/17/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	Date: 7-18-01	Time: 10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2 °
Log-in Review [initials]

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 3303141 931

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: August 14, 2001

Order ID Number: A01080115

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
176118	KWB 13	Water	7/31/01	11:00	8/1/01
176119	NP 1	Water	7/31/01	10:40	8/1/01
176120	WP 2	Water	7/31/01	10:15	8/1/01
176121	MW 18	Water	7/31/01	13:50	8/1/01
176122	MW 45	Water	7/31/01	14:00	8/1/01
176123	29	Water	7/31/01	14:10	8/1/01
176124	28	Water	7/31/01	14:25	8/1/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 176118 - KWB 13

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13266	Date Analyzed:	8/8/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11317	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 176118 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.81	µg/L	1	50	97	89 - 110
Toluene-d8		49.61	µg/L	1	50	99	95 - 107
4-Bromofluorobenzene		47.74	µg/L	1	50	95	81 - 105

Sample: 176119 - NP 1

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13266	Date Analyzed:	8/8/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11317	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		24.7	µg/L	1	1

Continued ...

... *Continued* Sample: 176119 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.69	µg/L	1	50	91	89 - 110
Toluene-d8		49.42	µg/L	1	50	98	95 - 107
4-Bromofluorobenzene		47.56	µg/L	1	50	95	81 - 105

Sample: 176120 - WP 2

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13270	Date Analyzed:	8/10/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11321	Date Prepared:	8/10/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)	1	6.23	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		3.55	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1

Continued ...

[1]concentration reported in method blank=8.89 µg/l

... *Continued* Sample: 176120 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		45.12	μg/L	1	50	90	89 - 110
Toluene-d8		49.24	μg/L	1	50	98	95 - 107
4-Bromofluorobenzene		49.75	μg/L	1	50	99	81 - 105

Sample: 176121 - MW 18

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13270	Date Analyzed:	8/10/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11321	Date Prepared:	8/10/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)	2	6.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1

Continued ...

[2]concentration reported in method blank=8.89 μg/l

... *Continued* Sample: 176121 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 176121 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.2	μg/L	1	50	92	89 - 110
Toluene-d8		48.85	μg/L	1	50	97	95 - 107
4-Bromofluorobenzene		49.34	μg/L	1	50	98	81 - 105

Sample: 176122 - MW 45

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13266	Date Analyzed:	8/8/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11317	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		7.92	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 176122 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Toluene		1.45	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		2.59	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.12	µg/L	1	50	94	89 - 110
Toluene-d8		49.53	µg/L	1	50	99	95 - 107
4-Bromofluorobenzene		48.32	µg/L	1	50	96	81 - 105

Sample: 176123 - 29

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13266	Date Analyzed:	8/8/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11317	Date Prepared:	8/8/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 176123 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		7.65	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		1.73	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		13.4	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		6.89	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 176123 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.84	μg/L	1	50	105	89 - 110
Toluene-d8		49.44	μg/L	1	50	98	95 - 107
4-Bromofluorobenzene		47.86	μg/L	1	50	95	81 - 105

Sample: 176124 - 28

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13270	Date Analyzed:	8/10/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11321	Date Prepared:	8/10/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<50.0	μg/L	50	1
Dichlorodifluoromethane		<50.0	μg/L	50	1
Chloromethane (methyl chloride)		<50.0	μg/L	50	1
Vinyl Chloride		<50.0	μg/L	50	1
Bromomethane (methyl bromide)		<250	μg/L	50	5
Chloroethane		<50.0	μg/L	50	1
Trichlorofluoromethane		<50.0	μg/L	50	1
Acetone		<500	μg/L	50	10
Iodomethane (methyl iodide)	[3]	263	μg/L	50	5
Carbon Disulfide		<50.0	μg/L	50	1
Acrylonitrile		<50.0	μg/L	50	1
2-Butanone (MEK)		<250	μg/L	50	5
4-methyl-2-pentanone (MIBK)		<250	μg/L	50	5
2-hexanone		<250	μg/L	50	5
trans 1,4-Dichloro-2-butene		<500	μg/L	50	10
1,1-Dichloroethene		<50.0	μg/L	50	1
Methylene chloride		<250	μg/L	50	5
MTBE		3131	μg/L	50	1
trans-1,2-Dichloroethene		<50.0	μg/L	50	1
1,1-Dichloroethane		<50.0	μg/L	50	1
cis-1,2-Dichloroethene		<50.0	μg/L	50	1
2,2-Dichloropropane		<50.0	μg/L	50	1
1,2-Dichloroethane (EDC)		<50.0	μg/L	50	1
Chloroform		<50.0	μg/L	50	1
1,1,1-Trichloroethane		<50.0	μg/L	50	1
1,1-Dichloropropene		<50.0	μg/L	50	1
Benzene		67.2	μg/L	50	1
Carbon Tetrachloride		<50.0	μg/L	50	1
1,2-Dichloropropane		<50.0	μg/L	50	1

Continued ...

[3]concentration reported in method blank = 444 μg/l

... *Continued* Sample: 176124 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Trichloroethene (TCE)		<50.0	μg/L	50	1
Dibromomethane (methylene bromide)		<50.0	μg/L	50	1
Bromodichloromethane		<50.0	μg/L	50	1
2-Chloroethyl vinyl ether		<250	μg/L	50	5
cis-1,3-Dichloropropene		<50.0	μg/L	50	1
trans-1,3-Dichloropropene		<50.0	μg/L	50	1
Toluene		<50.0	μg/L	50	1
1,1,2-Trichloroethane		<50.0	μg/L	50	1
1,3-Dichloropropane		<50.0	μg/L	50	1
Dibromochloromethane		<50.0	μg/L	50	1
1,2-Dibromoethane (EDB)		<50.0	μg/L	50	1
Tetrachloroethene (PCE)		<50.0	μg/L	50	1
Chlorobenzene		<50.0	μg/L	50	1
1,1,1,2-Tetrachloroethane		<50.0	μg/L	50	1
Ethylbenzene		<50.0	μg/L	50	1
m,p-Xylene		<50.0	μg/L	50	1
Bromoform		<50.0	μg/L	50	1
Styrene		<50.0	μg/L	50	1
o-Xylene		<50.0	μg/L	50	1
1,1,2,2-Tetrachloroethane		<50.0	μg/L	50	1
2-Chlorotoluene		<50.0	μg/L	50	1
1,2,3-Trichloropropane		<50.0	μg/L	50	1
Isopropylbenzene		<50.0	μg/L	50	1
Bromobenzene		<50.0	μg/L	50	1
n-Propylbenzene		<50.0	μg/L	50	1
1,3,5-Trimethylbenzene		<50.0	μg/L	50	1
tert-Butylbenzene		<50.0	μg/L	50	1
1,2,4-Trimethylbenzene		<50.0	μg/L	50	1
1,4-Dichlorobenzene (para)		<50.0	μg/L	50	1
sec-Butylbenzene		<50.0	μg/L	50	1
1,3-Dichlorobenzene		<50.0	μg/L	50	1
p-Isopropyltoluene		<50.0	μg/L	50	1
4-Chlorotoluene		<50.0	μg/L	50	1
1,2-Dichlorobenzene (ortho)		<50.0	μg/L	50	1
n-Butylbenzene		<50.0	μg/L	50	1
1,2-Dibromo-3-chloropropane		<250	μg/L	50	5
1,2,3-Trichlorobenzene		<250	μg/L	50	5
1,2,4-Trichlorobenzene		<250	μg/L	50	5
Naphthalene		<250	μg/L	50	1
Hexachlorobutadiene		<250	μg/L	50	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.06	μg/L	1	50	92	89 - 110
Toluene-d8		49.21	μg/L	1	50	98	95 - 107
4-Bromofluorobenzene		49.55	μg/L	1	50	99	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC13266

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)		<5.00	μg/L	5
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)		<5.00	μg/L	5
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		43.99	μg/L	1	50	87	89 - 110
Toluene-d8		49.49	μg/L	1	50	98	95 - 107
4-Bromofluorobenzene		48.09	μg/L	1	50	96	81 - 105

Method Blank QCBatch: QC13270

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)	[4]	5.92	μg/L	5
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)	[5]	8.89	μg/L	5
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1

Continued ...

[4]concentration due to lab contamination
[5]concentration due to lab contamination

... Continued

Param	Flag	Results	Units	Reporting Limit
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		44.9	µg/L	1	50	89	89 - 110
Toluene-d8		49.12	µg/L	1	50	98	95 - 107
4-Bromofluorobenzene		49.34	µg/L	1	50	98	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC13266

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	92	90	µg/L	1	100	<1.00	92	2	71 - 132	20
Benzene	101	99	µg/L	1	100	<1.00	101	2	81 - 114	20
Trichloroethene (TCE)	84	81	µg/L	1	100	<1.00	84	3	79 - 111	20
Toluene	97	93	µg/L	1	100	<1.00	97	4	81 - 110	20
Chlorobenzene	96	95	µg/L	1	100	<1.00	96	1	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.28	50.84	µg/L	1	50	100	101	89 - 110
Toluene-d8	49.24	50.88	µg/L	1	50	98	101	95 - 107
4-Bromofluorobenzene	49.41	47.72	µg/L	1	50	98	95	81 - 105

Laboratory Control Spikes QCBatch: QC13270

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	97	99	µg/L	1	100	<1.00	97	2	71 - 132	20
Benzene	97	99	µg/L	1	100	<1.00	97	2	81 - 114	20
Trichloroethene (TCE)	89	89	µg/L	1	100	<1.00	89	0	79 - 111	20
Toluene	94	95	µg/L	1	100	<1.00	94	1	81 - 110	20
Chlorobenzene	97	98	µg/L	1	100	<1.00	97	1	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	45.65	45.15	µg/L	1	50	91	90	89 - 110
Toluene-d8	49.52	49.56	µg/L	1	50	99	99	95 - 107
4-Bromofluorobenzene	49.19	49.03	µg/L	1	50	98	98	81 - 105

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC13266

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	98	98	80 - 120	8/8/01
1,1-Dichloroethene		µg/L	100	101	101	80 - 120	8/8/01
Chloroform		µg/L	100	96	96	80 - 120	8/8/01
1,2-Dichloropropane		µg/L	100	87	87	80 - 120	8/8/01
Toluene		µg/L	100	92	92	80 - 120	8/8/01
Chlorobenzene		µg/L	100	93	93	80 - 120	8/8/01
Ethylbenzene		µg/L	100	91	91	80 - 120	8/8/01
Dibromofluoromethane		µg/L	50	51.70	103	80 - 120	8/8/01
Toluene-d8		µg/L	50	49.62	99	80 - 120	8/8/01
4-Bromofluorobenzene		µg/L	50	48.98	97	80 - 120	8/8/01

CCV (1) QCBatch: QC13270

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	97	97	80 - 120	8/10/01
1,1-Dichloroethene		µg/L	100	110	110	80 - 120	8/10/01
Chloroform		µg/L	100	104	104	80 - 120	8/10/01
1,2-Dichloropropane		µg/L	100	96	96	80 - 120	8/10/01
Toluene		µg/L	100	90	90	80 - 120	8/10/01
Chlorobenzene		µg/L	100	96	96	80 - 120	8/10/01
Ethylbenzene		µg/L	100	94	94	80 - 120	8/10/01
Dibromofluoromethane		µg/L	50	51.39	102	80 - 120	8/10/01
Toluene-d8		µg/L	50	50.07	100	80 - 120	8/10/01
4-Bromofluorobenzene		µg/L	50	50.08	100	80 - 120	8/10/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: August 14, 2001

Order ID Number: A01080115

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
176118	KWB 13	Water	7/31/01	11:00	8/1/01
176119	NP 1	Water	7/31/01	10:40	8/1/01
176120	WP 2	Water	7/31/01	10:15	8/1/01
176121	MW 18	Water	7/31/01	13:50	8/1/01
176122	MW 45	Water	7/31/01	14:00	8/1/01
176123	29	Water	7/31/01	14:10	8/1/01
176124	28	Water	7/31/01	14:25	8/1/01

This report consists of a total of 11 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 176118 - KWB 13

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L

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Sample 176118 continued ...

Param	Flag	Result	Units
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 176119 - NP 1

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L

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Sample 176119 continued ...

Param	Flag	Result	Units
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		24.7	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L

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Sample 176119 continued ...

Param	Flag	Result	Units
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 176120 - WP 2

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)	1	6.23	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		3.55	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L

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[1]concentration reported in method blank=8.89 μg/l

Sample 176120 continued ...

Param	Flag	Result	Units
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 176121 - MW 18

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)	[2]	6.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L

Continued on next page ...

[2]concentration reported in method blank=8.89 μg/l

Sample 176121 continued ...

Param	Flag	Result	Units
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L

Continued on next page ...

Sample 176121 continued ...

Param	Flag	Result	Units
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 176122 - MW 45

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		7.92	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		1.45	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L

Continued on next page ...

Sample 176122 continued ...

Param	Flag	Result	Units
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		2.59	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L

Sample: 176123 - 29

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		7.65	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		1.73	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L

Continued on next page ...

Sample 176123 continued ...

Param	Flag	Result	Units
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		13.4	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		6.89	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 176124 - 28

Param	Flag	Result	Units
Bromochloromethane		<50.0	μg/L
Dichlorodifluoromethane		<50.0	μg/L
Chloromethane (methyl chloride)		<50.0	μg/L

Continued on next page ...

Sample 176124 continued ...

Param	Flag	Result	Units
Vinyl Chloride		<50.0	μg/L
Bromomethane (methyl bromide)		<250	μg/L
Chloroethane		<50.0	μg/L
Trichlorofluoromethane		<50.0	μg/L
Acetone		<500	μg/L
Iodomethane (methyl iodide)	[3]	263	μg/L
Carbon Disulfide		<50.0	μg/L
Acrylonitrile		<50.0	μg/L
2-Butanone (MEK)		<250	μg/L
4-methyl-2-pentanone (MIBK)		<250	μg/L
2-hexanone		<250	μg/L
trans 1,4-Dichloro-2-butene		<500	μg/L
1,1-Dichloroethene		<50.0	μg/L
Methylene chloride		<250	μg/L
MTBE		3131	μg/L
trans-1,2-Dichloroethene		<50.0	μg/L
1,1-Dichloroethane		<50.0	μg/L
cis-1,2-Dichloroethene		<50.0	μg/L
2,2-Dichloropropane		<50.0	μg/L
1,2-Dichloroethane (EDC)		<50.0	μg/L
Chloroform		<50.0	μg/L
1,1,1-Trichloroethane		<50.0	μg/L
1,1-Dichloropropene		<50.0	μg/L
Benzene		67.2	μg/L
Carbon Tetrachloride		<50.0	μg/L
1,2-Dichloropropane		<50.0	μg/L
Trichloroethene (TCE)		<50.0	μg/L
Dibromomethane (methylene bromide)		<50.0	μg/L
Bromodichloromethane		<50.0	μg/L
2-Chloroethyl vinyl ether		<250	μg/L
cis-1,3-Dichloropropene		<50.0	μg/L
trans-1,3-Dichloropropene		<50.0	μg/L
Toluene		<50.0	μg/L
1,1,2-Trichloroethane		<50.0	μg/L
1,3-Dichloropropane		<50.0	μg/L
Dibromochloromethane		<50.0	μg/L
1,2-Dibromoethane (EDB)		<50.0	μg/L
Tetrachloroethene (PCE)		<50.0	μg/L
Chlorobenzene		<50.0	μg/L
1,1,1,2-Tetrachloroethane		<50.0	μg/L
Ethylbenzene		<50.0	μg/L
m,p-Xylene		<50.0	μg/L
Bromoform		<50.0	μg/L
Styrene		<50.0	μg/L
o-Xylene		<50.0	μg/L
1,1,2,2-Tetrachloroethane		<50.0	μg/L
2-Chlorotoluene		<50.0	μg/L
1,2,3-Trichloropropane		<50.0	μg/L
Isopropylbenzene		<50.0	μg/L
Bromobenzene		<50.0	μg/L
n-Propylbenzene		<50.0	μg/L
1,3,5-Trimethylbenzene		<50.0	μg/L

Continued on next page ...

[3]concentration reported in method blank = 444 μg/l

Sample 176124 continued ...

Param	Flag	Result	Units
tert-Butylbenzene		<50.0	μg/L
1,2,4-Trimethylbenzene		<50.0	μg/L
1,4-Dichlorobenzene (para)		<50.0	μg/L
sec-Butylbenzene		<50.0	μg/L
1,3-Dichlorobenzene		<50.0	μg/L
p-Isopropyltoluene		<50.0	μg/L
4-Chlorotoluene		<50.0	μg/L
1,2-Dichlorobenzene (ortho)		<50.0	μg/L
n-Butylbenzene		<50.0	μg/L
1,2-Dibromo-3-chloropropane		<250	μg/L
1,2,3-Trichlorobenzene		<250	μg/L
1,2,4-Trichlorobenzene		<250	μg/L
Naphthalene		<250	μg/L
Hexachlorobutadiene		<250	μg/L

176118-124

Page_____of_____

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TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: A01080115

Company Name: NAVA50 Phone #: 505 748 3311

Address: (Street, City, Zip) 501 E. Main Fax #: 505 746 5241

Contact Person: Charlie Plymale

Invoice to: (If different from above)

Project #: Project Name: Artesia

Project Location: Artesia Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
176118	KWB 13	2	40ml	X						X		X		7/31/01	1100
119	NP1	2	40ml	X						X		X		7/31/01	1040
120	NP2	2	40ml	X						X		X		7/31/01	1015
121	MW 18	2	40ml	X						X		X		7/31/01	1350
122	MW 45	2	40ml	X						X		X		7/31/01	1400
123	29	2	40ml	X						X		X		7/31/01	1410
124	28	2	40ml	X						X		X		7/31/01	1425

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
176118											X						
119											X						
120											X						
121											X						
122											X						
123											X						
124											X						

Seal 1 of 1

Relinquished by: Date: 7/31/01 Time: 1615 Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: 8/1/01 Time: 10:00

LAB USE ONLY
Intact: Y / N
Headspace: Y / N
Temp: °
Log-in Review: MS

REMARKS:

8/15

☐ Check If Special Reporting Limits Are Needed

Carrier # FEDEX 324 9042 512

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: August 7, 2001

Order ID Number: A01072007

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175509	KWB 1A	Water	7/19/01	10:10	7/20/01
175510	KWB 1C	Water	7/19/01	10:15	7/20/01
175511	KWB 2R	Water	7/19/01	9:03	7/20/01
175512	KWB 3A	Water	7/19/01	9:50	7/20/01
175513	KEB 9	Water	7/19/01	9:20	7/20/01
175514	RA 3353	Water	7/19/01	9:40	7/20/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 175509 - KWB 1A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12911	Date Analyzed:	7/26/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11044	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		22.8	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		7.60	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 175509 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.32	μg/L	1	50	106	89 - 110
Toluene-d8		50.72	μg/L	1	50	101	95 - 107
4-Bromofluorobenzene		47.89	μg/L	1	50	95	81 - 105

Sample: 175510 - KWB 1C

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12911	Date Analyzed:	7/26/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11044	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		19.7	μg/L	1	1

Continued ...

... *Continued* Sample: 175510 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		3.16	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		1.01	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.62	μg/L	1	50	103	89 - 110
Toluene-d8		50.31	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		47.15	μg/L	1	50	94	81 - 105

Sample: 175511 - KWB 2R

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13072	Date Analyzed:	8/2/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11165	Date Prepared:	8/2/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<50.0	μg/L	50	1
Dichlorodifluoromethane		<50.0	μg/L	50	1
Chloromethane (methyl chloride)		<50.0	μg/L	50	1
Vinyl Chloride		<50.0	μg/L	50	1
Bromomethane (methyl bromide)		<250	μg/L	50	5
Chloroethane		<50.0	μg/L	50	1
Trichlorofluoromethane		<50.0	μg/L	50	1
Acetone		<500	μg/L	50	10
Iodomethane (methyl iodide)		<250	μg/L	50	5
Carbon Disulfide		<50.0	μg/L	50	1
Acrylonitrile		<50.0	μg/L	50	1
2-Butanone (MEK)		<250	μg/L	50	5
4-methyl-2-pentanone (MIBK)		<250	μg/L	50	5
2-hexanone		<250	μg/L	50	5
trans 1,4-Dichloro-2-butene		<500	μg/L	50	10
1,1-Dichloroethene		<50.0	μg/L	50	1
Methylene chloride		<250	μg/L	50	5
MTBE		<50.0	μg/L	50	1
trans-1,2-Dichloroethene		<50.0	μg/L	50	1
1,1-Dichloroethane		<50.0	μg/L	50	1
cis-1,2-Dichloroethene		<50.0	μg/L	50	1
2,2-Dichloropropane		<50.0	μg/L	50	1
1,2-Dichloroethane (EDC)		<50.0	μg/L	50	1
Chloroform		<50.0	μg/L	50	1
1,1,1-Trichloroethane		<50.0	μg/L	50	1
1,1-Dichloropropene		<50.0	μg/L	50	1
Benzene		2464	μg/L	50	1
Carbon Tetrachloride		<50.0	μg/L	50	1
1,2-Dichloropropane		<50.0	μg/L	50	1
Trichloroethene (TCE)		<50.0	μg/L	50	1
Dibromomethane (methylene bromide)		<50.0	μg/L	50	1
Bromodichloromethane		<50.0	μg/L	50	1
2-Chloroethyl vinyl ether		<250	μg/L	50	5
cis-1,3-Dichloropropene		<50.0	μg/L	50	1
trans-1,3-Dichloropropene		<50.0	μg/L	50	1
Toluene		<50.0	μg/L	50	1
1,1,2-Trichloroethane		<50.0	μg/L	50	1
1,3-Dichloropropane		<50.0	μg/L	50	1
Dibromochloromethane		<50.0	μg/L	50	1
1,2-Dibromoethane (EDB)		<50.0	μg/L	50	1
Tetrachloroethene (PCE)		<50.0	μg/L	50	1
Chlorobenzene		<50.0	μg/L	50	1
1,1,1,2-Tetrachloroethane		<50.0	μg/L	50	1

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... *Continued* Sample: 175511 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		668	µg/L	50	1
m,p-Xylene		67.3	µg/L	50	1
Bromoform		<50.0	µg/L	50	1
Styrene		<50.0	µg/L	50	1
o-Xylene		<50.0	µg/L	50	1
1,1,2,2-Tetrachloroethane		<50.0	µg/L	50	1
2-Chlorotoluene		<50.0	µg/L	50	1
1,2,3-Trichloropropane		<50.0	µg/L	50	1
Isopropylbenzene		<50.0	µg/L	50	1
Bromobenzene		<50.0	µg/L	50	1
n-Propylbenzene		84.5	µg/L	50	1
1,3,5-Trimethylbenzene		<50.0	µg/L	50	1
tert-Butylbenzene		<50.0	µg/L	50	1
1,2,4-Trimethylbenzene		223	µg/L	50	1
1,4-Dichlorobenzene (para)		<50.0	µg/L	50	1
sec-Butylbenzene		<50.0	µg/L	50	1
1,3-Dichlorobenzene		<50.0	µg/L	50	1
p-Isopropyltoluene		<50.0	µg/L	50	1
4-Chlorotoluene		<50.0	µg/L	50	1
1,2-Dichlorobenzene (ortho)		<50.0	µg/L	50	1
n-Butylbenzene		<50.0	µg/L	50	1
1,2-Dibromo-3-chloropropane		<250	µg/L	50	5
1,2,3-Trichlorobenzene		<250	µg/L	50	5
1,2,4-Trichlorobenzene		<250	µg/L	50	5
Naphthalene		<250	µg/L	50	1
Hexachlorobutadiene		<250	µg/L	50	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.44	µg/L	1	50	96	89 - 110
Toluene-d8		49.71	µg/L	1	50	99	95 - 107
4-Bromofluorobenzene		48.14	µg/L	1	50	96	81 - 105

Sample: 175512 - KWB 3A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13022	Date Analyzed:	7/27/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11128	Date Prepared:	7/27/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5

Continued ...

... *Continued* Sample: 175512 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		14.5	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		5.06	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 175512 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.85	μg/L	1	50	95	89 - 110
Toluene-d8		49.67	μg/L	1	50	99	95 - 107
4-Bromofluorobenzene		49.58	μg/L	1	50	99	81 - 105

Sample: 175513 - KEB 9

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12911	Date Analyzed:	7/26/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11044	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.17	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		28.9	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175513 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		9.48	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		1.58	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.54	μg/L	1	50	95	89 - 110
Toluene-d8		50.26	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		49.58	μg/L	1	50	99	81 - 105

Sample: 175514 - RA 3353

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC12911	Date Analyzed:	7/26/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11044	Date Prepared:	7/26/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175514 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		1.17	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		2.48	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 175514 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.83	μg/L	1	50	93	89 - 110
Toluene-d8		50.10	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		48.51	μg/L	1	50	97	81 - 105

Quality Control Report
Method Blank

Method Blank QCBatch: QC12911

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)		<5.00	μg/L	5
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)		<5.00	μg/L	5
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.65	µg/L	1	50	103	89 - 110
Toluene-d8		50.71	µg/L	1	50	101	95 - 107
4-Bromofluorobenzene		46.55	µg/L	1	50	93	81 - 105

Method Blank QCBatch: QC13022

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.05	µg/L	1	50	94	89 - 110
Toluene-d8		49.38	µg/L	1	50	98	95 - 107
4-Bromofluorobenzene		49.37	µg/L	1	50	98	81 - 105

Method Blank QCBatch: QC13072

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.64	μg/L	1	50	103	89 - 110
Toluene-d8		50.15	μg/L	1	50	100	95 - 107
4-Bromofluorobenzene		47.18	μg/L	1	50	94	81 - 105

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC12911

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	116	118	μg/L	1	100	<1.00	116	1	71 - 132	20
Benzene	101	103	μg/L	1	100	<1.00	101	1	81 - 114	20
Trichloroethene (TCE)	92	92	μg/L	1	100	<1.00	92	0	79 - 111	20
Toluene	100	102	μg/L	1	100	<1.00	100	1	81 - 110	20
Chlorobenzene	98	101	μg/L	1	100	<1.00	98	3	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	51.73	52.58	μg/L	1	50	103	105	89 - 110

Continued ...

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Toluene-d8	48.22	49.05	μg/L	1	50	96	98	95 - 107
4-Bromofluorobenzene	47.14	47.16	μg/L	1	50	94	94	81 - 105

Laboratory Control Spikes

QCBatch: QC13022

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	99	101	μg/L	1	100	<1.00	99	2	71 - 132	20
Benzene	95	96	μg/L	1	100	<1.00	95	1	81 - 114	20
Trichloroethene (TCE)	90	91	μg/L	1	100	<1.00	90	1	79 - 111	20
Toluene	94	95	μg/L	1	100	<1.00	94	1	81 - 110	20
Chlorobenzene	93	95	μg/L	1	100	<1.00	93	2	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	47.42	47.26	μg/L	1	50	94	94	89 - 110
Toluene-d8	48.03	48.10	μg/L	1	50	96	96	95 - 107
4-Bromofluorobenzene	49.42	48.83	μg/L	1	50	98	97	81 - 105

Laboratory Control Spikes

QCBatch: QC13072

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	83	84	μg/L	1	100	<1.00	83	1	71 - 132	20
Benzene	107	108	μg/L	1	100	<1.00	107	0	81 - 114	20
Trichloroethene (TCE)	91	91	μg/L	1	100	<1.00	91	0	79 - 111	20
Toluene	102	103	μg/L	1	100	<1.00	102	0	81 - 110	20
Chlorobenzene	106	106	μg/L	1	100	<1.00	106	0	88 - 112	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	46.13	45.88	μg/L	1	50	92	91	89 - 110
Toluene-d8	49.76	49.85	μg/L	1	50	99	99	95 - 107
4-Bromofluorobenzene	48.10	47.82	μg/L	1	50	96	95	81 - 105

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC12911

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		μg/L	100	95	95	80 - 120	7/26/01

Continued ...

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,1-Dichloroethene		µg/L	100	101	101	80 - 120	7/26/01
Chloroform		µg/L	100	103	103	80 - 120	7/26/01
1,2-Dichloropropane		µg/L	100	104	104	80 - 120	7/26/01
Toluene		µg/L	100	104	104	80 - 120	7/26/01
Chlorobenzene		µg/L	100	100	100	80 - 120	7/26/01
Ethylbenzene		µg/L	100	108	108	80 - 120	7/26/01
Dibromofluoromethane		µg/L	50	50.81	101	80 - 120	7/26/01
Toluene-d8		µg/L	50	49.09	98	80 - 120	7/26/01
4-Bromofluorobenzene		µg/L	50	51.74	103	80 - 120	7/26/01

CCV (1) QCBatch: QC13022

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	82	82	80 - 120	7/27/01
1,1-Dichloroethene		µg/L	100	95	95	80 - 120	7/27/01
Chloroform		µg/L	100	94	94	80 - 120	7/27/01
1,2-Dichloropropane		µg/L	100	97	97	80 - 120	7/27/01
Toluene		µg/L	100	99	99	80 - 120	7/27/01
Chlorobenzene		µg/L	100	99	99	80 - 120	7/27/01
Ethylbenzene		µg/L	100	104	104	80 - 120	7/27/01
Dibromofluoromethane		µg/L	50	45.98	91	80 - 120	7/27/01
Toluene-d8		µg/L	50	48.14	96	80 - 120	7/27/01
4-Bromofluorobenzene		µg/L	50	51.17	102	80 - 120	7/27/01

CCV (1) QCBatch: QC13072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	93	93	80 - 120	8/2/01
1,1-Dichloroethene		µg/L	100	85	85	80 - 120	8/2/01
Chloroform		µg/L	100	94	94	80 - 120	8/2/01
1,2-Dichloropropane		µg/L	100	106	106	80 - 120	8/2/01
Toluene		µg/L	100	98	98	80 - 120	8/2/01
Chlorobenzene		µg/L	100	101	101	80 - 120	8/2/01
Ethylbenzene		µg/L	100	106	106	80 - 120	8/2/01
Dibromofluoromethane		µg/L	50	50.70	101	80 - 120	8/2/01
Toluene-d8		µg/L	50	49.97	99	80 - 120	8/2/01
4-Bromofluorobenzene		µg/L	50	50.35	100	80 - 120	8/2/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: August 7, 2001

Order ID Number: A01072007

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
175509	KWB 1A	Water	7/19/01	10:10	7/20/01
175510	KWB 1C	Water	7/19/01	10:15	7/20/01
175511	KWB 2R	Water	7/19/01	9:03	7/20/01
175512	KWB 3A	Water	7/19/01	9:50	7/20/01
175513	KEB 9	Water	7/19/01	9:20	7/20/01
175514	RA 3353	Water	7/19/01	9:40	7/20/01

This report consists of a total of 9 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 175509 - KWB 1A

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		22.8	µg/L

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Sample 175509 continued ...

Param	Flag	Result	Units
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		7.60	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 175510 - KWB 1C

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L

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Sample 175510 continued ...

Param	Flag	Result	Units
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		19.7	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		3.16	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		1.01	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L

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Sample 175510 continued ...

Param	Flag	Result	Units
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 175511 - KWB 2R

Param	Flag	Result	Units
Bromochloromethane		<50.0	µg/L
Dichlorodifluoromethane		<50.0	µg/L
Chloromethane (methyl chloride)		<50.0	µg/L
Vinyl Chloride		<50.0	µg/L
Bromomethane (methyl bromide)		<250	µg/L
Chloroethane		<50.0	µg/L
Trichlorofluoromethane		<50.0	µg/L
Acetone		<500	µg/L
Iodomethane (methyl iodide)		<250	µg/L
Carbon Disulfide		<50.0	µg/L
Acrylonitrile		<50.0	µg/L
2-Butanone (MEK)		<250	µg/L
4-methyl-2-pentanone (MIBK)		<250	µg/L
2-hexanone		<250	µg/L
trans 1,4-Dichloro-2-butene		<500	µg/L
1,1-Dichloroethene		<50.0	µg/L
Methylene chloride		<250	µg/L
MTBE		<50.0	µg/L
trans-1,2-Dichloroethene		<50.0	µg/L
1,1-Dichloroethane		<50.0	µg/L
cis-1,2-Dichloroethene		<50.0	µg/L
2,2-Dichloropropane		<50.0	µg/L
1,2-Dichloroethane (EDC)		<50.0	µg/L
Chloroform		<50.0	µg/L
1,1,1-Trichloroethane		<50.0	µg/L
1,1-Dichloropropene		<50.0	µg/L
Benzene		2464	µg/L
Carbon Tetrachloride		<50.0	µg/L
1,2-Dichloropropane		<50.0	µg/L
Trichloroethene (TCE)		<50.0	µg/L
Dibromomethane (methylene bromide)		<50.0	µg/L
Bromodichloromethane		<50.0	µg/L
2-Chloroethyl vinyl ether		<250	µg/L
cis-1,3-Dichloropropene		<50.0	µg/L
trans-1,3-Dichloropropene		<50.0	µg/L
Toluene		<50.0	µg/L
1,1,2-Trichloroethane		<50.0	µg/L
1,3-Dichloropropane		<50.0	µg/L

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Sample 175511 continued ...

Param	Flag	Result	Units
Dibromochloromethane		<50.0	µg/L
1,2-Dibromoethane (EDB)		<50.0	µg/L
Tetrachloroethene (PCE)		<50.0	µg/L
Chlorobenzene		<50.0	µg/L
1,1,1,2-Tetrachloroethane		<50.0	µg/L
Ethylbenzene		668	µg/L
m,p-Xylene		67.3	µg/L
Bromoform		<50.0	µg/L
Styrene		<50.0	µg/L
o-Xylene		<50.0	µg/L
1,1,2,2-Tetrachloroethane		<50.0	µg/L
2-Chlorotoluene		<50.0	µg/L
1,2,3-Trichloropropane		<50.0	µg/L
Isopropylbenzene		<50.0	µg/L
Bromobenzene		<50.0	µg/L
n-Propylbenzene		84.5	µg/L
1,3,5-Trimethylbenzene		<50.0	µg/L
tert-Butylbenzene		<50.0	µg/L
1,2,4-Trimethylbenzene		223	µg/L
1,4-Dichlorobenzene (para)		<50.0	µg/L
sec-Butylbenzene		<50.0	µg/L
1,3-Dichlorobenzene		<50.0	µg/L
p-Isopropyltoluene		<50.0	µg/L
4-Chlorotoluene		<50.0	µg/L
1,2-Dichlorobenzene (ortho)		<50.0	µg/L
n-Butylbenzene		<50.0	µg/L
1,2-Dibromo-3-chloropropane		<250	µg/L
1,2,3-Trichlorobenzene		<250	µg/L
1,2,4-Trichlorobenzene		<250	µg/L
Naphthalene		<250	µg/L
Hexachlorobutadiene		<250	µg/L

Sample: 175512 - KWB 3A

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L

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Sample 175512 continued ...

Param	Flag	Result	Units
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		14.5	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		5.06	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

~~Sample: 175513 - KEB 9~~

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		2.17	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		28.9	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		9.48	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L

Continued on next page ...

Sample 175513 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		1.58	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 175514 - RA 3353

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L

Continued on next page ...

Sample 175514 continued ...

Param	Flag	Result	Units
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		1.17	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		2.48	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

175509-14

Page ____ of ____

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Lubbock, Texas 79424
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Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01072007

Company Name: NAVASO
Phone #: 505 7483311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 7465421
Contact Person:
Invoice to: (If different from above)
Project #:
Project Name: Qarly offsite
Project Location:
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
175509	Kwb 1A	2	40ml	X				X				X		7/19/01	1010
10	Kwb 1C	2	40ml	X				X				X		7/19/01	1015
11	Kwb 2R	2	40ml	X				X				X		7/19/01	903
12	Kwb 3A	2	40ml	X				X				X		7/19/01	950
13	Kwb 9	2	40ml	X				X				X		7/19/01	920
14	RA 3353	2	40ml	X				X				X		7/19/01	940

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
175509											X						
10											X						
11											X						
12											X						
13											X						
14											X						

See list

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	7/19/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	Date: 7-20-01	Time:

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2 °
Log-in Review

REMARKS: 8/8/01

☐ Check If Special Reporting Limits Are Needed

8/8/01 web

Carrier # FedEx 328 2041 334

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: September 19, 2001

Order ID Number: A01082708

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
177943	RA 314	Water	8/24/01	7:45	8/25/01
177944	RA 4196	Water	8/24/01	8:05	8/25/01
177945	RA 1331	Water	8/24/01	7:55	8/25/01
177946	RA 307	Water	8/24/01	8:00	8/25/01
177947	Larne Well	Water	8/24/01	7:52	8/25/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 177943 - RA 314

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13724	Date Analyzed:	8/30/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11713	Date Prepared:	8/30/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 177943 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.16	µg/L	1	50	104	88 - 112
Toluene-d8		50.21	µg/L	1	50	100	90 - 109
4-Bromofluorobenzene		49.14	µg/L	1	50	98	84 - 103

Sample: 177944 - RA 4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13724	Date Analyzed:	8/30/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11713	Date Prepared:	8/30/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 177944 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.11	μg/L	1	50	104	88 - 112
Toluene-d8		50.42	μg/L	1	50	100	90 - 109
4-Bromofluorobenzene		48.42	μg/L	1	50	96	84 - 103

Sample: 177945 - RA 1331

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13725	Date Analyzed:	8/31/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11714	Date Prepared:	8/31/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 177945 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.21	μg/L	1	50	104	88 - 112
Toluene-d8		49.68	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		48.61	μg/L	1	50	97	84 - 103

Sample: 177946 - RA 307

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13725	Date Analyzed:	8/31/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11714	Date Prepared:	8/31/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 177946 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 177946 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.2	μg/L	1	50	106	88 - 112
Toluene-d8		49.81	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		48.64	μg/L	1	50	97	84 - 103

Sample: 177947 - Larne Well

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC13725	Date Analyzed:	8/31/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB11714	Date Prepared:	8/31/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 177947 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.59	μg/L	1	50	105	88 - 112
Toluene-d8		50.22	μg/L	1	50	100	90 - 109
4-Bromofluorobenzene		48.83	μg/L	1	50	97	84 - 103

Quality Control Report
Method Blank

Method Blank QCBatch: QC13724

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	μg/L	1
Dichlorodifluoromethane		<1.00	μg/L	1
Chloromethane (methyl chloride)		<1.00	μg/L	1
Vinyl Chloride		<1.00	μg/L	1
Bromomethane (methyl bromide)		<5.00	μg/L	5
Chloroethane		<1.00	μg/L	1
Trichlorofluoromethane		<1.00	μg/L	1
Acetone		<10.0	μg/L	10
Iodomethane (methyl iodide)		<5.00	μg/L	5
Carbon Disulfide		<1.00	μg/L	1
Acrylonitrile		<1.00	μg/L	1
2-Butanone (MEK)		<5.00	μg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	5
2-hexanone		<5.00	μg/L	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	10
1,1-Dichloroethene		<1.00	μg/L	1
Methylene chloride		<5.00	μg/L	5
MTBE		<1.00	μg/L	1
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.35	µg/L	1	50	98	88 - 112
Toluene-d8		49.32	µg/L	1	50	98	90 - 109
4-Bromofluorobenzene		49.25	µg/L	1	50	98	84 - 103

Method Blank QCBatch: QC13725

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.46	µg/L	1	50	104	88 - 112
Toluene-d8		49.93	µg/L	1	50	99	90 - 109
4-Bromofluorobenzene		48.62	µg/L	1	50	97	84 - 103

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC13724

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	97	101	µg/L	1	100	<1.00	97	4	80 - 120	20
Benzene	96	99	µg/L	1	100	<1.00	96	3	89 - 114	20
Trichloroethene (TCE)	88	91	µg/L	1	100	<1.00	88	3	77 - 102	20
Toluene	94	96	µg/L	1	100	<1.00	94	2	87 - 111	20
Chlorobenzene	96	99	µg/L	1	100	<1.00	96	3	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.66	50.47	µg/L	1	50	101	100	88 - 112
Toluene-d8	50.00	49.35	µg/L	1	50	100	98	90 - 109
4-Bromofluorobenzene	50.39	49.83	µg/L	1	50	100	99	84 - 103

Laboratory Control Spikes QCBatch: QC13725

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	105.03	109.61	µg/L	1	100	<1.00	105	4	80 - 120	20
Benzene	99.21	103.29	µg/L	1	100	<1.00	99	4	89 - 114	20
Trichloroethene (TCE)	89.26	92.44	µg/L	1	100	<1.00	89	3	77 - 102	20
Toluene	96.69	101.29	µg/L	1	100	<1.00	96	4	87 - 111	20
Chlorobenzene	97.72	101.81	µg/L	1	100	<1.00	97	4	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	52.35	51.90	µg/L	1	50	104	103	88 - 112
Toluene-d8	50.01	50.14	µg/L	1	50	100	100	90 - 109
4-Bromofluorobenzene	50.17	49.46	µg/L	1	50	100	98	84 - 103

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC13724

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	100	100	80 - 120	8/30/01
1,1-Dichloroethene		µg/L	100	105	105	80 - 120	8/30/01
Chloroform		µg/L	100	114	114	80 - 120	8/30/01
1,2-Dichloropropane		µg/L	100	102	102	80 - 120	8/30/01
Toluene		µg/L	100	98	98	80 - 120	8/30/01
Chlorobenzene		µg/L	100	101	101	80 - 120	8/30/01
Ethylbenzene		µg/L	100	101	101	80 - 120	8/30/01
Dibromofluoromethane		µg/L	50	49.12	98	80 - 120	8/30/01
Toluene-d8		µg/L	50	50.19	100	80 - 120	8/30/01
4-Bromofluorobenzene		µg/L	50	51.30	102	80 - 120	8/30/01

CCV (1) QCBatch: QC13725

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	106	106	80 - 120	8/31/01
1,1-Dichloroethene		µg/L	100	109	109	80 - 120	8/31/01
Chloroform		µg/L	100	118	118	80 - 120	8/31/01
1,2-Dichloropropane		µg/L	100	102	102	80 - 120	8/31/01
Toluene		µg/L	100	98	98	80 - 120	8/31/01
Chlorobenzene		µg/L	100	99	99	80 - 120	8/31/01
Ethylbenzene		µg/L	100	99	99	80 - 120	8/31/01
Dibromofluoromethane		µg/L	50	48.79	97	80 - 120	8/31/01
Toluene-d8		µg/L	50	50.65	101	80 - 120	8/31/01
4-Bromofluorobenzene		µg/L	50	52.10	104	80 - 120	8/31/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: September 19, 2001

Order ID Number: A01082708

Project Number: N/A
Project Name: Mo Off -Site
Project Location: Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
177943	RA 314	Water	8/24/01	7:45	8/25/01
177944	RA 4196	Water	8/24/01	8:05	8/25/01
177945	RA 1331	Water	8/24/01	7:55	8/25/01
177946	RA 307	Water	8/24/01	8:00	8/25/01
177947	Larne Well	Water	8/24/01	7:52	8/25/01

This report consists of a total of 8 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 177943 - RA 314

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L

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Sample 177943 continued ...

Param	Flag	Result	Units
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 177944 - RA 4196

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L

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Sample 177944 continued ...

Param	Flag	Result	Units
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L

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Sample 177944 continued ...

Param	Flag	Result	Units
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 177945 - RA 1331

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L

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Sample 177945 continued ...

Param	Flag	Result	Units
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 177946 - RA 307

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L

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Sample 177946 continued ...

Param	Flag	Result	Units
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 177947 - Larne Well

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L

Continued on next page ...

Sample 177947 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

177943-47

Page ____ of ____

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Lubbock, Texas 79424
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Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0108 2708

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Darrell Moore or Charlie Phymale
Invoice to: (If different from above)
Project #:
Project Name: Monthly offsite
Project Location: Artesia
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
177943	RA 314	2	40ml	X						X		X		8/24/01	745
44	RA 4196	2	40ml	X						X		X		8/24/01	805
45	RA 1331	2	40ml	X						X		X		8/24/01	755
46	RA 307	2	40ml	X						X		X		8/24/01	800
47	Larne Well	2	40ml	X						X		X		8/24/01	752

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
				See List						•						
										•						
										•						
										•						
										•						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	8/24/01	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				8.25.01	10:00

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 2 °
Log-in Review MA

REMARKS:

☐ Check If Special Reporting Limits Are Needed

9/20

Carrier # Fed Ex

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: October 19, 2001

Order ID Number: A01101110

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
181599	KWB2R	Water	10/10/01	9:27	10/11/01
181600	KWB12A	Water	10/10/01	9:45	10/11/01
181601	RA3156	Water	10/10/01	9:40	10/11/01
181602	KWB9	Water	10/10/01	10:00	10/11/01
181603	KWB11A	Water	10/10/01	10:40	10/11/01
181604	KWB7	Water	10/10/01	10:30	10/11/01
181605	KWB3A	Water	10/10/01	10:52	10/11/01
181606	RA3353	Water	10/10/01	10:55	10/11/01
181607	KWB1A	Water	10/10/01	14:15	10/11/01
181608	KWB1C	Water	10/10/01	14:20	10/11/01
181609	RA307	Water	10/10/01	10:18	10/11/01
181610	RA1331	Water	10/10/01	10:15	10/11/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 23 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 181599 - KWB2R

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<100	µg/L	100	1
Dichlorodifluoromethane		<100	µg/L	100	1
Chloromethane (methyl chloride)		<100	µg/L	100	1
Vinyl Chloride		<100	µg/L	100	1
Bromomethane (methyl bromide)		<500	µg/L	100	5
Chloroethane		<100	µg/L	100	1
Trichlorofluoromethane		<100	µg/L	100	1
Acetone		<1000	µg/L	100	10
Iodomethane (methyl iodide)		<500	µg/L	100	5
Carbon Disulfide		<100	µg/L	100	1
Acrylonitrile		<100	µg/L	100	1
2-Butanone (MEK)		<500	µg/L	100	5
4-methyl-2-pentanone (MIBK)		<500	µg/L	100	5
2-hexanone		<500	µg/L	100	5
trans 1,4-Dichloro-2-butene		<1000	µg/L	100	10
1,1-Dichloroethene		<100	µg/L	100	1
Methylene chloride		<500	µg/L	100	5
MTBE		<100	µg/L	100	1
trans-1,2-Dichloroethene		<100	µg/L	100	1
1,1-Dichloroethane		<100	µg/L	100	1
cis-1,2-Dichloroethene		<100	µg/L	100	1
2,2-Dichloropropane		<100	µg/L	100	1
1,2-Dichloroethane (EDC)		<100	µg/L	100	1
Chloroform		<100	µg/L	100	1
1,1,1-Trichloroethane		<100	µg/L	100	1
1,1-Dichloropropene		<100	µg/L	100	1
Benzene		1750	µg/L	100	1
Carbon Tetrachloride		<100	µg/L	100	1
1,2-Dichloropropane		<100	µg/L	100	1
Trichloroethene (TCE)		<100	µg/L	100	1
Dibromomethane (methylene bromide)		<100	µg/L	100	1
Bromodichloromethane		<100	µg/L	100	1
2-Chloroethyl vinyl ether		<500	µg/L	100	5
cis-1,3-Dichloropropene		<100	µg/L	100	1
trans-1,3-Dichloropropene		<100	µg/L	100	1
Toluene		<100	µg/L	100	1
1,1,2-Trichloroethane		<100	µg/L	100	1
1,3-Dichloropropane		<100	µg/L	100	1
Dibromochloromethane		<100	µg/L	100	1
1,2-Dibromoethane (EDB)		<100	µg/L	100	1
Tetrachloroethene (PCE)		<100	µg/L	100	1
Chlorobenzene		<100	µg/L	100	1
1,1,1,2-Tetrachloroethane		<100	µg/L	100	1
Ethylbenzene		1410	µg/L	100	1
m,p-Xylene		754	µg/L	100	1
Bromoform		<100	µg/L	100	1
Styrene		<100	µg/L	100	1
o-Xylene		<100	µg/L	100	1

Continued ...

... *Continued* Sample: 181599 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<100	μg/L	100	1
2-Chlorotoluene		<100	μg/L	100	1
1,2,3-Trichloropropane		<100	μg/L	100	1
Isopropylbenzene		106	μg/L	100	1
Bromobenzene		<100	μg/L	100	1
n-Propylbenzene		259	μg/L	100	1
1,3,5-Trimethylbenzene		155	μg/L	100	1
tert-Butylbenzene		<100	μg/L	100	1
1,2,4-Trimethylbenzene		864	μg/L	100	1
1,4-Dichlorobenzene (para)		<100	μg/L	100	1
sec-Butylbenzene		<100	μg/L	100	1
1,3-Dichlorobenzene		<100	μg/L	100	1
p-Isopropyltoluene		<100	μg/L	100	1
4-Chlorotoluene		<100	μg/L	100	1
1,2-Dichlorobenzene (ortho)		<100	μg/L	100	1
n-Butylbenzene		<100	μg/L	100	1
1,2-Dibromo-3-chloropropane		<500	μg/L	100	5
1,2,3-Trichlorobenzene		<500	μg/L	100	5
1,2,4-Trichlorobenzene		<500	μg/L	100	5
Naphthalene		<500	μg/L	100	1
Hexachlorobutadiene		<500	μg/L	100	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.5	μg/L	1	50	103	88 - 112
Toluene-d8		50.3	μg/L	1	50	100	90 - 109
4-Bromofluorobenzene		49.3	μg/L	1	50	98	84 - 103

Sample: 181600 - KWB12A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181600 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	µg/L	1	50	102	88 - 112
Toluene-d8		50.6	µg/L	1	50	101	90 - 109
4-Bromofluorobenzene		48.5	µg/L	1	50	97	84 - 103

Sample: 181601 - RA3156

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181601 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.7	μg/L	1	50	103	88 - 112
Toluene-d8		50.9	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.0	μg/L	1	50	98	84 - 103

Sample: 181602 - KWB9

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 181602 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		1.62	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 181602 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.4	μg/L	1	50	103	88 - 112
Toluene-d8		50.4	μg/L	1	50	101	90 - 109
4-Bromofluorobenzene		49.2	μg/L	1	50	98	84 - 103

Sample: 181603 - KWB11A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		5.76	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181603 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.8	μg/L	1	50	104	88 - 112
Toluene-d8		50.7	μg/L	1	50	101	90 - 109
4-Bromofluorobenzene		49.0	μg/L	1	50	98	84 - 103

Sample: 181604 - KWB7

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181604 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		9.64	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181604 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	μg/L	1	50	102	88 - 112
Toluene-d8		51.2	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		48.9	μg/L	1	50	98	84 - 103

Sample: 181605 - KWB3A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181605 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.4	μg/L	1	50	103	88 - 112
Toluene-d8		50.9	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.2	μg/L	1	50	98	84 - 103

Sample: 181606 - RA3353

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1

Continued ...

... Continued Sample: 181606 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181606 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.0	μg/L	1	50	104	88 - 112
Toluene-d8		50.6	μg/L	1	50	101	90 - 109
4-Bromofluorobenzene		48.7	μg/L	1	50	97	84 - 103

Sample: 181607 - KWB1A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		1.08	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181607 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.4	μg/L	1	50	103	88 - 112
Toluene-d8		50.8	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.0	μg/L	1	50	98	84 - 103

Sample: 181608 - KWB1C

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		21.5	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		1.03	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181608 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.2	μg/L	1	50	102	88 - 112
Toluene-d8		50.4	μg/L	1	50	101	90 - 109
4-Bromofluorobenzene		49.6	μg/L	1	50	99	84 - 103

Sample: 181609 - RA307

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181609 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	μg/L	1	50	102	88 - 112
Toluene-d8		50.9	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.5	μg/L	1	50	99	84 - 103

Sample: 181610 - RA1331

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181610 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.2	μg/L	1	50	102	88 - 112
Toluene-d8		51.2	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.3	μg/L	1	50	99	84 - 103

Quality Control Report
Method Blank

Method Blank QCBatch: QC14957

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

Continued ...

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	µg/L	1	50	102	88 - 112
Toluene-d8		51.1	µg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.3	µg/L	1	50	99	84 - 103

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC14957

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	111	112	µg/L	1	100	<1.00	111	1	80 - 120	20
Benzene	104	106	µg/L	1	100	<1.00	104	2	89 - 114	20
Trichloroethene (TCE)	97.9	98.9	µg/L	1	100	<1.00	98	1	77 - 102	20
Toluene	98.7	101	µg/L	1	100	<1.00	99	2	87 - 111	20
Chlorobenzene	102	103	µg/L	1	100	<1.00	102	1	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.0	50.9	µg/L	1	50	100	102	88 - 112
Toluene-d8	51.0	51.3	µg/L	1	50	102	103	90 - 109
4-Bromofluorobenzene	49.6	50.1	µg/L	1	50	99	100	84 - 103

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC14957

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	98.0	98	80 - 120	10/16/01
1,1-Dichloroethene		µg/L	100	100	100	80 - 120	10/16/01
Chloroform		µg/L	100	98.0	98	80 - 120	10/16/01
1,2-Dichloropropane		µg/L	100	98.0	98	80 - 120	10/16/01
Toluene		µg/L	100	95.0	95	80 - 120	10/16/01
Chlorobenzene		µg/L	100	97.0	97	80 - 120	10/16/01
Ethylbenzene		µg/L	100	100	100	80 - 120	10/16/01
Dibromofluoromethane		µg/L	50	49.8	100	80 - 120	10/16/01
Toluene-d8		µg/L	50	51.1	102	80 - 120	10/16/01
4-Bromofluorobenzene		µg/L	50	51.8	104	80 - 120	10/16/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: October 19, 2001

Order ID Number: A01101110

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
181599	KWB2R	Water	10/10/01	9:27	10/11/01
181600	KWB12A	Water	10/10/01	9:45	10/11/01
181601	RA3156	Water	10/10/01	9:40	10/11/01
181602	KWB9	Water	10/10/01	10:00	10/11/01
181603	KWB11A	Water	10/10/01	10:40	10/11/01
181604	KWB7	Water	10/10/01	10:30	10/11/01
181605	KWB3A	Water	10/10/01	10:52	10/11/01
181606	RA3353	Water	10/10/01	10:55	10/11/01
181607	KWB1A	Water	10/10/01	14:15	10/11/01
181608	KWB1C	Water	10/10/01	14:20	10/11/01
181609	RA307	Water	10/10/01	10:18	10/11/01
181610	RA1331	Water	10/10/01	10:15	10/11/01

This report consists of a total of 18 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 181599 - KWB2R

Param	Flag	Result	Units
Bromochloromethane		<100	μg/L
Dichlorodifluoromethane		<100	μg/L
Chloromethane (methyl chloride)		<100	μg/L
Vinyl Chloride		<100	μg/L
Bromomethane (methyl bromide)		<500	μg/L
Chloroethane		<100	μg/L
Trichlorofluoromethane		<100	μg/L
Acetone		<1000	μg/L
Iodomethane (methyl iodide)		<500	μg/L
Carbon Disulfide		<100	μg/L
Acrylonitrile		<100	μg/L
2-Butanone (MEK)		<500	μg/L
4-methyl-2-pentanone (MIBK)		<500	μg/L
2-hexanone		<500	μg/L
trans 1,4-Dichloro-2-butene		<1000	μg/L
1,1-Dichloroethene		<100	μg/L
Methylene chloride		<500	μg/L
MTBE		<100	μg/L
trans-1,2-Dichloroethene		<100	μg/L
1,1-Dichloroethane		<100	μg/L
cis-1,2-Dichloroethene		<100	μg/L

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Sample 181599 continued ...

Param	Flag	Result	Units
2,2-Dichloropropane		<100	μg/L
1,2-Dichloroethane (EDC)		<100	μg/L
Chloroform		<100	μg/L
1,1,1-Trichloroethane		<100	μg/L
1,1-Dichloropropene		<100	μg/L
Benzene		1750	μg/L
Carbon Tetrachloride		<100	μg/L
1,2-Dichloropropane		<100	μg/L
Trichloroethene (TCE)		<100	μg/L
Dibromomethane (methylene bromide)		<100	μg/L
Bromodichloromethane		<100	μg/L
2-Chloroethyl vinyl ether		<500	μg/L
cis-1,3-Dichloropropene		<100	μg/L
trans-1,3-Dichloropropene		<100	μg/L
Toluene		<100	μg/L
1,1,2-Trichloroethane		<100	μg/L
1,3-Dichloropropane		<100	μg/L
Dibromochloromethane		<100	μg/L
1,2-Dibromoethane (EDB)		<100	μg/L
Tetrachloroethene (PCE)		<100	μg/L
Chlorobenzene		<100	μg/L
1,1,1,2-Tetrachloroethane		<100	μg/L
Ethylbenzene		1410	μg/L
m,p-Xylene		754	μg/L
Bromoform		<100	μg/L
Styrene		<100	μg/L
o-Xylene		<100	μg/L
1,1,2,2-Tetrachloroethane		<100	μg/L
2-Chlorotoluene		<100	μg/L
1,2,3-Trichloropropane		<100	μg/L
Isopropylbenzene		106	μg/L
Bromobenzene		<100	μg/L
n-Propylbenzene		259	μg/L
1,3,5-Trimethylbenzene		155	μg/L
tert-Butylbenzene		<100	μg/L
1,2,4-Trimethylbenzene		864	μg/L
1,4-Dichlorobenzene (para)		<100	μg/L
sec-Butylbenzene		<100	μg/L
1,3-Dichlorobenzene		<100	μg/L
p-Isopropyltoluene		<100	μg/L
4-Chlorotoluene		<100	μg/L
1,2-Dichlorobenzene (ortho)		<100	μg/L
n-Butylbenzene		<100	μg/L
1,2-Dibromo-3-chloropropane		<500	μg/L
1,2,3-Trichlorobenzene		<500	μg/L
1,2,4-Trichlorobenzene		<500	μg/L
Naphthalene		<500	μg/L
Hexachlorobutadiene		<500	μg/L

Sample: 181600 - KWB12A

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L

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Sample 181600 continued ...

Param	Flag	Result	Units
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181601 - RA3156

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L

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Sample 181601 continued ...

Param	Flag	Result	Units
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181602 - KWB9

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L

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Sample 181602 continued ...

Param	Flag	Result	Units
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		1.62	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L

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Sample 181602 continued ...

Param	Flag	Result	Units
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 181603 - KWB11A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		5.76	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L

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Sample 181603 continued ...

Param	Flag	Result	Units
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181604 - KWB7

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		9.64	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L

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Sample 181604 continued ...

Param	Flag	Result	Units
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181605 - KWB3A

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L

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Sample 181605 continued ...

Param	Flag	Result	Units
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L

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Sample 181605 continued ...

Param	Flag	Result	Units
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181606 - RA3353

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L

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Sample 181606 continued ...

Param	Flag	Result	Units
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181607 - KWB1A

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L

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Sample 181607 continued ...

Param	Flag	Result	Units
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		1.08	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L

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Sample 181607 continued ...

Param	Flag	Result	Units
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 181608 - KWB1C

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		21.5	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		1.03	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L

Continued on next page ...

Sample 181608 continued ...

Param	Flag	Result	Units
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181609 - RA307

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L

Continued on next page ...

Sample 181609 continued ...

Param	Flag	Result	Units
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181610 - RA1331

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L

Continued on next page ...

Sample 181610 continued ...

Param	Flag	Result	Units
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L

Continued on next page ...

Sample 181610 continued ...

Param	Flag	Result	Units
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

181599-610

Page____of____

6701 Aberdeen Avenue, Ste. 9
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TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01101110

Company Name: NAVA50

Phone #: 5057483311

Address: (Street, City, Zip) 501 E. Main

Fax #: 5057465421

Contact Person: Darrell Moore or Charles Ryan

Invoice to: (If different from above)

Project #:

Project Name: Qtrly offsite

Project Location: Artesia

Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
181599	KWB 2R	2	40m	X				X				X		10/10	927																	
600	KWB 12A	2	40m	X				X				X		10/10	945																	
601	RA 3156	2	40m	X				X				X		10/10	940																	
602	KWB 9	2	40m	X				X				X		10/10	1000																	
	~~RA 1116~~ RA 1331 RA 1221	2	40m	X				X				X		10/10	~~955~~ ~~1015~~ 10:15																	
603	~~RA 1248~~ KWB 11A	2	40m	X				X				X		10/10	1040 ~~955~~																	
604	KWB 7	2	40m	X				X				X		10/10	1030																	
605	KWB 3A	2	40m	X				X				X		10/10	1032																	
606	RA 3353	2	40m	X				X				X		10/10	1055																	
607	KWB 1A	2	40m	X				X				X		10/10	1415																	
608	KWB 1C	2	40m	X				X				X		10/10	1420																	

See List

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	10/10/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[signature]	10-11-01	10:00

LAB USE ONLY

Intact: Y N

Headspace: Y / N

Temp: 4 °C

Log-in Review: MS

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # FedEx 3326 7033 293

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: _____

Company Name: NAVAJO
Phone #:
Address: (Street, City, Zip)
Fax #:
Contact Person:
Invoice to:
(If different from above)
Project #:
Project Name: Orphan
Project Location:
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE		SAMPLING: DATE	TIME
181609	RA 307	2	40ml	X					X				X			10/10	10:15
610	RA 1331	2	"	✓					✓				X			10/10	10:15

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
181609					See List												
610																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	10/10/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				10/10/01	10:00

LAB USE ONLY
Intact: Y / N
Headspace: Y / N
Temp: 4 °
Log-in Review:

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fedex 3316 7033 293

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TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: October 23, 2001

Order ID Number: A01101208

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
181700	NP 2	Water	10/11/01	8:35	10/12/01
181701	MW 18	Water	10/11/01	9:40	10/12/01
181702	MW 45	Water	10/11/01	10:00	10/12/01
181703	NP 1	Water	10/11/01	8:00	10/12/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 181700 - NP 2

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		4.21	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181700 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.3	µg/L	1	50	105	88 - 112
Toluene-d8		51.2	µg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.5	µg/L	1	50	99	84 - 103

Sample: 181701 - MW 18

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 181701 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.5	μg/L	1	50	105	88 - 112
Toluene-d8		51.1	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		48.9	μg/L	1	50	98	84 - 103

Sample: 181702 - MW 45

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC15040	Date Analyzed:	10/18/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12787	Date Prepared:	10/18/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<5.00	μg/L	5	1
Dichlorodifluoromethane		<5.00	μg/L	5	1
Chloromethane (methyl chloride)		<5.00	μg/L	5	1
Vinyl Chloride		<5.00	μg/L	5	1
Bromomethane (methyl bromide)		<25.0	μg/L	5	5
Chloroethane		<5.00	μg/L	5	1
Trichlorofluoromethane		<5.00	μg/L	5	1
Acetone		<50.0	μg/L	5	10
Iodomethane (methyl iodide)		<25.0	μg/L	5	5
Carbon Disulfide		7.33	μg/L	5	1
Acrylonitrile		<5.00	μg/L	5	1
2-Butanone (MEK)		<25.0	μg/L	5	5
4-methyl-2-pentanone (MIBK)		<25.0	μg/L	5	5
2-hexanone		<25.0	μg/L	5	5
trans 1,4-Dichloro-2-butene		<50.0	μg/L	5	10
1,1-Dichloroethene		<5.00	μg/L	5	1
Methylene chloride		<25.0	μg/L	5	5
MTBE		7.99	μg/L	5	1
trans-1,2-Dichloroethene		<5.00	μg/L	5	1
1,1-Dichloroethane		<5.00	μg/L	5	1
cis-1,2-Dichloroethene		<5.00	μg/L	5	1
2,2-Dichloropropane		<5.00	μg/L	5	1
1,2-Dichloroethane (EDC)		<5.00	μg/L	5	1
Chloroform		<5.00	μg/L	5	1
1,1,1-Trichloroethane		<5.00	μg/L	5	1
1,1-Dichloropropene		<5.00	μg/L	5	1
Benzene		<5.00	μg/L	5	1
Carbon Tetrachloride		<5.00	μg/L	5	1
1,2-Dichloropropane		<5.00	μg/L	5	1
Trichloroethene (TCE)		<5.00	μg/L	5	1
Dibromomethane (methylene bromide)		<5.00	μg/L	5	1
Bromodichloromethane		<5.00	μg/L	5	1
2-Chloroethyl vinyl ether		<25.0	μg/L	5	5
cis-1,3-Dichloropropene		<5.00	μg/L	5	1
trans-1,3-Dichloropropene		<5.00	μg/L	5	1
Toluene		<5.00	μg/L	5	1
1,1,2-Trichloroethane		<5.00	μg/L	5	1
1,3-Dichloropropane		<5.00	μg/L	5	1
Dibromochloromethane		<5.00	μg/L	5	1
1,2-Dibromoethane (EDB)		<5.00	μg/L	5	1
Tetrachloroethene (PCE)		<5.00	μg/L	5	1
Chlorobenzene		<5.00	μg/L	5	1
1,1,1,2-Tetrachloroethane		<5.00	μg/L	5	1

Continued ...

... *Continued* Sample: 181702 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<5.00	µg/L	5	1
m,p-Xylene		<5.00	µg/L	5	1
Bromoform		<5.00	µg/L	5	1
Styrene		<5.00	µg/L	5	1
o-Xylene		13.7	µg/L	5	1
1,1,2,2-Tetrachloroethane		<5.00	µg/L	5	1
2-Chlorotoluene		<5.00	µg/L	5	1
1,2,3-Trichloropropane		<5.00	µg/L	5	1
Isopropylbenzene		10.4	µg/L	5	1
Bromobenzene		<5.00	µg/L	5	1
n-Propylbenzene		<5.00	µg/L	5	1
1,3,5-Trimethylbenzene		<5.00	µg/L	5	1
tert-Butylbenzene		<5.00	µg/L	5	1
1,2,4-Trimethylbenzene		<5.00	µg/L	5	1
1,4-Dichlorobenzene (para)		<5.00	µg/L	5	1
sec-Butylbenzene		<5.00	µg/L	5	1
1,3-Dichlorobenzene		<5.00	µg/L	5	1
p-Isopropyltoluene		<5.00	µg/L	5	1
4-Chlorotoluene		<5.00	µg/L	5	1
1,2-Dichlorobenzene (ortho)		<5.00	µg/L	5	1
n-Butylbenzene		<5.00	µg/L	5	1
1,2-Dibromo-3-chloropropane		<25.0	µg/L	5	5
1,2,3-Trichlorobenzene		<25.0	µg/L	5	5
1,2,4-Trichlorobenzene		<25.0	µg/L	5	5
Naphthalene		<25.0	µg/L	5	1
Hexachlorobutadiene		<25.0	µg/L	5	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	µg/L	1	50	102	88 - 112
Toluene-d8		50.3	µg/L	1	50	100	90 - 109
4-Bromofluorobenzene		51.3	µg/L	1	50	102	84 - 103

Sample: 181703 - NP 1

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC14957	Date Analyzed:	10/16/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12725	Date Prepared:	10/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5

Continued ...

... *Continued* Sample: 181703 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		25.4	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 181703 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.4	μg/L	1	50	99	88 - 112
Toluene-d8		50.9	μg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.5	μg/L	1	50	99	84 - 103

Quality Control Report
Method Blank

Method Blank QCBatch: QC14957

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.0	µg/L	1	50	102	88 - 112
Toluene-d8		51.1	µg/L	1	50	102	90 - 109
4-Bromofluorobenzene		49.3	µg/L	1	50	99	84 - 103

Method Blank

QCBatch: QC15040

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.5	µg/L	1	50	97	88 - 112
Toluene-d8		49.8	µg/L	1	50	100	90 - 109
4-Bromofluorobenzene		49.4	µg/L	1	50	99	84 - 103

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC14957

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	111	112	µg/L	1	100	<1.00	111	1	80 - 120	20
Benzene	104	106	µg/L	1	100	<1.00	104	2	89 - 114	20
Trichloroethene (TCE)	97.9	98.9	µg/L	1	100	<1.00	98	1	77 - 102	20
Toluene	98.7	101	µg/L	1	100	<1.00	99	2	87 - 111	20
Chlorobenzene	102	103	µg/L	1	100	<1.00	102	1	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	50.0	50.9	µg/L	1	50	100	102	88 - 112
Toluene-d8	51.0	51.3	µg/L	1	50	102	103	90 - 109
4-Bromofluorobenzene	49.6	50.1	µg/L	1	50	99	100	84 - 103

Laboratory Control Spikes QCBatch: QC15040

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	106	109	µg/L	1	100	<1.00	106	3	80 - 120	20
Benzene	103	104	µg/L	1	100	<1.00	103	1	89 - 114	20
Trichloroethene (TCE)	97.2	98.0	µg/L	1	100	<1.00	97	1	77 - 102	20
Toluene	98.1	99.0	µg/L	1	100	<1.00	98	1	87 - 111	20
Chlorobenzene	100	101	µg/L	1	100	<1.00	100	1	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	48.7	49.0	µg/L	1	50	97	98	88 - 112
Toluene-d8	50.6	50.9	µg/L	1	50	101	102	90 - 109
4-Bromofluorobenzene	50.3	49.5	µg/L	1	50	101	99	84 - 103

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC14957

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	98.0	98	80 - 120	10/16/01
1,1-Dichloroethene		µg/L	100	100	100	80 - 120	10/16/01
Chloroform		µg/L	100	98.0	98	80 - 120	10/16/01
1,2-Dichloropropane		µg/L	100	98.0	98	80 - 120	10/16/01
Toluene		µg/L	100	95.0	95	80 - 120	10/16/01
Chlorobenzene		µg/L	100	97.0	97	80 - 120	10/16/01
Ethylbenzene		µg/L	100	100	100	80 - 120	10/16/01
Dibromofluoromethane		µg/L	50	49.8	100	80 - 120	10/16/01
Toluene-d8		µg/L	50	51.1	102	80 - 120	10/16/01
4-Bromofluorobenzene		µg/L	50	51.8	104	80 - 120	10/16/01

CCV (1) QCBatch: QC15040

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	109	109	80 - 120	10/18/01
1,1-Dichloroethene		µg/L	100	107	107	80 - 120	10/18/01
Chloroform		µg/L	100	103	103	80 - 120	10/18/01
1,2-Dichloropropane		µg/L	100	103	103	80 - 120	10/18/01
Toluene		µg/L	100	100	100	80 - 120	10/18/01
Chlorobenzene		µg/L	100	101	101	80 - 120	10/18/01
Ethylbenzene		µg/L	100	104	104	80 - 120	10/18/01
Dibromofluoromethane		µg/L	50	49.3	99	80 - 120	10/18/01
Toluene-d8		µg/L	50	50.6	101	80 - 120	10/18/01
4-Bromofluorobenzene		µg/L	50	51.4	103	80 - 120	10/18/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: October 23, 2001

Order ID Number: A01101208

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
181700	NP 2	Water	10/11/01	8:35	10/12/01
181701	MW 18	Water	10/11/01	9:40	10/12/01
181702	MW 45	Water	10/11/01	10:00	10/12/01
181703	NP 1	Water	10/11/01	8:00	10/12/01

This report consists of a total of 6 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 181700 - NP 2

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		4.21	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L

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Sample 181700 continued ...

Param	Flag	Result	Units
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181701 - MW 18

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L

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Sample 181701 continued ...

Param	Flag	Result	Units
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L

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Sample 181701 continued ...

Param	Flag	Result	Units
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181702 - MW 45

Param	Flag	Result	Units
Bromochloromethane		<5.00	µg/L
Dichlorodifluoromethane		<5.00	µg/L
Chloromethane (methyl chloride)		<5.00	µg/L
Vinyl Chloride		<5.00	µg/L
Bromomethane (methyl bromide)		<25.0	µg/L
Chloroethane		<5.00	µg/L
Trichlorofluoromethane		<5.00	µg/L
Acetone		<50.0	µg/L
Iodomethane (methyl iodide)		<25.0	µg/L
Carbon Disulfide		7.33	µg/L
Acrylonitrile		<5.00	µg/L
2-Butanone (MEK)		<25.0	µg/L
4-methyl-2-pentanone (MIBK)		<25.0	µg/L
2-hexanone		<25.0	µg/L
trans 1,4-Dichloro-2-butene		<50.0	µg/L
1,1-Dichloroethene		<5.00	µg/L
Methylene chloride		<25.0	µg/L
MTBE		7.99	µg/L
trans-1,2-Dichloroethene		<5.00	µg/L
1,1-Dichloroethane		<5.00	µg/L
cis-1,2-Dichloroethene		<5.00	µg/L
2,2-Dichloropropane		<5.00	µg/L
1,2-Dichloroethane (EDC)		<5.00	µg/L
Chloroform		<5.00	µg/L
1,1,1-Trichloroethane		<5.00	µg/L
1,1-Dichloropropene		<5.00	µg/L
Benzene		<5.00	µg/L
Carbon Tetrachloride		<5.00	µg/L
1,2-Dichloropropane		<5.00	µg/L
Trichloroethene (TCE)		<5.00	µg/L
Dibromomethane (methylene bromide)		<5.00	µg/L
Bromodichloromethane		<5.00	µg/L
2-Chloroethyl vinyl ether		<25.0	µg/L
cis-1,3-Dichloropropene		<5.00	µg/L
trans-1,3-Dichloropropene		<5.00	µg/L
Toluene		<5.00	µg/L
1,1,2-Trichloroethane		<5.00	µg/L
1,3-Dichloropropane		<5.00	µg/L
Dibromochloromethane		<5.00	µg/L
1,2-Dibromoethane (EDB)		<5.00	µg/L

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Sample 181702 continued ...

Param	Flag	Result	Units
Tetrachloroethene (PCE)		<5.00	µg/L
Chlorobenzene		<5.00	µg/L
1,1,1,2-Tetrachloroethane		<5.00	µg/L
Ethylbenzene		<5.00	µg/L
m,p-Xylene		<5.00	µg/L
Bromoform		<5.00	µg/L
Styrene		<5.00	µg/L
o-Xylene		13.7	µg/L
1,1,2,2-Tetrachloroethane		<5.00	µg/L
2-Chlorotoluene		<5.00	µg/L
1,2,3-Trichloropropane		<5.00	µg/L
Isopropylbenzene		10.4	µg/L
Bromobenzene		<5.00	µg/L
n-Propylbenzene		<5.00	µg/L
1,3,5-Trimethylbenzene		<5.00	µg/L
tert-Butylbenzene		<5.00	µg/L
1,2,4-Trimethylbenzene		<5.00	µg/L
1,4-Dichlorobenzene (para)		<5.00	µg/L
sec-Butylbenzene		<5.00	µg/L
1,3-Dichlorobenzene		<5.00	µg/L
p-Isopropyltoluene		<5.00	µg/L
4-Chlorotoluene		<5.00	µg/L
1,2-Dichlorobenzene (ortho)		<5.00	µg/L
n-Butylbenzene		<5.00	µg/L
1,2-Dibromo-3-chloropropane		<25.0	µg/L
1,2,3-Trichlorobenzene		<25.0	µg/L
1,2,4-Trichlorobenzene		<25.0	µg/L
Naphthalene		<25.0	µg/L
Hexachlorobutadiene		<25.0	µg/L

Sample: 181703 - NP 1

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		25.4	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L

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Sample 181703 continued ...

Param	Flag	Result	Units
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

181700 - 703

Page____of____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # AD1101208

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Darrell Moore or Charlie Plymale
Invoice to: (If different from above)
Project #:
Project Name: City offsite
Project Location:
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
181700	NP 2	2	40ml	X				X				X		10/11/01	835
701	MW 18	2	40ml	X				X				X		10/11/01	940
702	MW 45	2	40ml	X				X				X		10/11/01	1000
703	NP 1	2	40ml	X				X				X		10/11/01	800

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
			See List													

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	10/11/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Crosby	10-12-01	10:00

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 4 °
Log-in Review MS

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # FedEx 3339142475

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: October 24, 2001

Order ID Number: A01101608

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
181856	MW-28	Water	10/15/01	10:20	10/16/01
181857	MW-29	Water	10/15/01	10:30	10/16/01
181858	KWB 13	Water	10/15/01	10:00	10/16/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 181856 - MW-28

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC15043	Date Analyzed:	10/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12790	Date Prepared:	10/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<50.0	µg/L	50	1
Dichlorodifluoromethane		<50.0	µg/L	50	1
Chloromethane (methyl chloride)		<50.0	µg/L	50	1
Vinyl Chloride		<50.0	µg/L	50	1
Bromomethane (methyl bromide)		<250	µg/L	50	5
Chloroethane		<50.0	µg/L	50	1
Trichlorofluoromethane		<50.0	µg/L	50	1
Acetone		<500	µg/L	50	10
Iodomethane (methyl iodide)		<250	µg/L	50	5
Carbon Disulfide		<50.0	µg/L	50	1
Acrylonitrile		<50.0	µg/L	50	1
2-Butanone (MEK)		<250	µg/L	50	5
4-methyl-2-pentanone (MIBK)		<250	µg/L	50	5
2-hexanone		<250	µg/L	50	5
trans 1,4-Dichloro-2-butene		<500	µg/L	50	10
1,1-Dichloroethene		<50.0	µg/L	50	1
Methylene chloride		<250	µg/L	50	5
MTBE		4840	µg/L	50	1
trans-1,2-Dichloroethene		<50.0	µg/L	50	1
1,1-Dichloroethane		<50.0	µg/L	50	1
cis-1,2-Dichloroethene		<50.0	µg/L	50	1
2,2-Dichloropropane		<50.0	µg/L	50	1
1,2-Dichloroethane (EDC)		<50.0	µg/L	50	1
Chloroform		<50.0	µg/L	50	1
1,1,1-Trichloroethane		<50.0	µg/L	50	1
1,1-Dichloropropene		<50.0	µg/L	50	1
Benzene		114	µg/L	50	1
Carbon Tetrachloride		<50.0	µg/L	50	1
1,2-Dichloropropane		<50.0	µg/L	50	1
Trichloroethene (TCE)		<50.0	µg/L	50	1
Dibromomethane (methylene bromide)		<50.0	µg/L	50	1
Bromodichloromethane		<50.0	µg/L	50	1
2-Chloroethyl vinyl ether		<250	µg/L	50	5
cis-1,3-Dichloropropene		<50.0	µg/L	50	1
trans-1,3-Dichloropropene		<50.0	µg/L	50	1
Toluene		<50.0	µg/L	50	1
1,1,2-Trichloroethane		<50.0	µg/L	50	1
1,3-Dichloropropane		<50.0	µg/L	50	1
Dibromochloromethane		<50.0	µg/L	50	1
1,2-Dibromoethane (EDB)		<50.0	µg/L	50	1
Tetrachloroethene (PCE)		<50.0	µg/L	50	1
Chlorobenzene		<50.0	µg/L	50	1
1,1,1,2-Tetrachloroethane		<50.0	µg/L	50	1
Ethylbenzene		<50.0	µg/L	50	1
m,p-Xylene		<50.0	µg/L	50	1
Bromoform		<50.0	µg/L	50	1
Styrene		<50.0	µg/L	50	1
o-Xylene		<50.0	µg/L	50	1

Continued ...

... *Continued* Sample: 181856 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<50.0	µg/L	50	1
2-Chlorotoluene		<50.0	µg/L	50	1
1,2,3-Trichloropropane		<50.0	µg/L	50	1
Isopropylbenzene		<50.0	µg/L	50	1
Bromobenzene		<50.0	µg/L	50	1
n-Propylbenzene		<50.0	µg/L	50	1
1,3,5-Trimethylbenzene		<50.0	µg/L	50	1
tert-Butylbenzene		<50.0	µg/L	50	1
1,2,4-Trimethylbenzene		<50.0	µg/L	50	1
1,4-Dichlorobenzene (para)		<50.0	µg/L	50	1
sec-Butylbenzene		<50.0	µg/L	50	1
1,3-Dichlorobenzene		<50.0	µg/L	50	1
p-Isopropyltoluene		<50.0	µg/L	50	1
4-Chlorotoluene		<50.0	µg/L	50	1
1,2-Dichlorobenzene (ortho)		<50.0	µg/L	50	1
n-Butylbenzene		<50.0	µg/L	50	1
1,2-Dibromo-3-chloropropane		<250	µg/L	50	5
1,2,3-Trichlorobenzene		<250	µg/L	50	5
1,2,4-Trichlorobenzene		<250	µg/L	50	5
Naphthalene		<250	µg/L	50	1
Hexachlorobutadiene		<250	µg/L	50	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.4	µg/L	1	50	102	88 - 112
Toluene-d8		50.0	µg/L	1	50	100	90 - 109
4-Bromofluorobenzene		49.4	µg/L	1	50	98	84 - 103

Sample: 181857 - MW-29

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC15043	Date Analyzed:	10/19/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12790	Date Prepared:	10/19/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		1.53	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		2.08	µg/L	1	1

Continued ...

... *Continued* Sample: 181857 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		27.2	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		1.22	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		12.7	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.8	μg/L	1	50	104	88 - 112
Toluene-d8		49.7	μg/L	1	50	99	90 - 109
4-Bromofluorobenzene		51.5	μg/L	1	50	103	84 - 103

Sample: 181858 - KWB 13

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC15040	Date Analyzed:	10/18/01
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB12787	Date Prepared:	10/18/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		1.08	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 181858 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.4	μg/L	1	50	99	88 - 112
Toluene-d8		50.7	μg/L	1	50	101	90 - 109
4-Bromofluorobenzene		49.0	μg/L	1	50	98	84 - 103

Quality Control Report
Method Blank

Method Blank QCBatch: QC15040

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

Continued ...

... Continued

Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		48.5	µg/L	1	50	97	88 - 112
Toluene-d8		49.8	µg/L	1	50	100	90 - 109
4-Bromofluorobenzene		49.4	µg/L	1	50	99	84 - 103

Method Blank QCBatch: QC15043

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.0	µg/L	1	50	98	88 - 112
Toluene-d8		50.4	µg/L	1	50	101	90 - 109
4-Bromofluorobenzene		48.8	µg/L	1	50	98	84 - 103

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC15040

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	106	109	µg/L	1	100	<1.00	106	3	80 - 120	20
Benzene	103	104	µg/L	1	100	<1.00	103	1	89 - 114	20
Trichloroethene (TCE)	97.2	98.0	µg/L	1	100	<1.00	97	1	77 - 102	20
Toluene	98.1	99.0	µg/L	1	100	<1.00	98	1	87 - 111	20
Chlorobenzene	100	101	µg/L	1	100	<1.00	100	1	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	48.7	49.0	µg/L	1	50	97	98	88 - 112
Toluene-d8	50.6	50.9	µg/L	1	50	101	102	90 - 109
4-Bromofluorobenzene	50.3	49.5	µg/L	1	50	101	99	84 - 103

Laboratory Control Spikes QCBatch: QC15043

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	108	109	µg/L	1	100	<1.00	108	1	80 - 120	20
Benzene	104	105	µg/L	1	100	<1.00	104	1	89 - 114	20
Trichloroethene (TCE)	97.2	99.2	µg/L	1	100	<1.00	97	2	77 - 102	20
Toluene	98.4	99.6	µg/L	1	100	<1.00	98	1	87 - 111	20
Chlorobenzene	100	102	µg/L	1	100	<1.00	100	2	87 - 109	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	48.8	49.0	µg/L	1	50	98	98	88 - 112
Toluene-d8	50.4	50.6	µg/L	1	50	101	101	90 - 109
4-Bromofluorobenzene	49.5	50.0	µg/L	1	50	99	100	84 - 103

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC15040

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	109	109	80 - 120	10/18/01
1,1-Dichloroethene		µg/L	100	107	107	80 - 120	10/18/01
Chloroform		µg/L	100	103	103	80 - 120	10/18/01
1,2-Dichloropropane		µg/L	100	103	103	80 - 120	10/18/01
Toluene		µg/L	100	100	100	80 - 120	10/18/01
Chlorobenzene		µg/L	100	101	101	80 - 120	10/18/01
Ethylbenzene		µg/L	100	104	104	80 - 120	10/18/01
Dibromofluoromethane		µg/L	50	49.3	99	80 - 120	10/18/01
Toluene-d8		µg/L	50	50.6	101	80 - 120	10/18/01
4-Bromofluorobenzene		µg/L	50	51.4	103	80 - 120	10/18/01

CCV (1) QCBatch: QC15043

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	108	108	80 - 120	10/19/01
1,1-Dichloroethene		µg/L	100	107	107	80 - 120	10/19/01
Chloroform		µg/L	100	106	106	80 - 120	10/19/01
1,2-Dichloropropane		µg/L	100	106	106	80 - 120	10/19/01
Toluene		µg/L	100	102	102	80 - 120	10/19/01
Chlorobenzene		µg/L	100	103	103	80 - 120	10/19/01
Ethylbenzene		µg/L	100	105	105	80 - 120	10/19/01
Dibromofluoromethane		µg/L	50	49.4	99	80 - 120	10/19/01
Toluene-d8		µg/L	50	50.7	101	80 - 120	10/19/01
4-Bromofluorobenzene		µg/L	50	51.4	103	80 - 120	10/19/01

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: October 24, 2001

Order ID Number: A01101608

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
181856	MW-28	Water	10/15/01	10:20	10/16/01
181857	MW-29	Water	10/15/01	10:30	10/16/01
181858	KWB 13	Water	10/15/01	10:00	10/16/01

This report consists of a total of 5 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 181856 - MW-28

Param	Flag	Result	Units
Bromochloromethane		<50.0	µg/L
Dichlorodifluoromethane		<50.0	µg/L
Chloromethane (methyl chloride)		<50.0	µg/L
Vinyl Chloride		<50.0	µg/L
Bromomethane (methyl bromide)		<250	µg/L
Chloroethane		<50.0	µg/L
Trichlorofluoromethane		<50.0	µg/L
Acetone		<500	µg/L
Iodomethane (methyl iodide)		<250	µg/L
Carbon Disulfide		<50.0	µg/L
Acrylonitrile		<50.0	µg/L
2-Butanone (MEK)		<250	µg/L
4-methyl-2-pentanone (MIBK)		<250	µg/L
2-hexanone		<250	µg/L
trans 1,4-Dichloro-2-butene		<500	µg/L
1,1-Dichloroethene		<50.0	µg/L
Methylene chloride		<250	µg/L
MTBE		4840	µg/L
trans-1,2-Dichloroethene		<50.0	µg/L
1,1-Dichloroethane		<50.0	µg/L
cis-1,2-Dichloroethene		<50.0	µg/L
2,2-Dichloropropane		<50.0	µg/L
1,2-Dichloroethane (EDC)		<50.0	µg/L
Chloroform		<50.0	µg/L
1,1,1-Trichloroethane		<50.0	µg/L
1,1-Dichloropropene		<50.0	µg/L
Benzene		114	µg/L
Carbon Tetrachloride		<50.0	µg/L
1,2-Dichloropropane		<50.0	µg/L
Trichloroethene (TCE)		<50.0	µg/L

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Sample 181856 continued ...

Param	Flag	Result	Units
Dibromomethane (methylene bromide)		<50.0	µg/L
Bromodichloromethane		<50.0	µg/L
2-Chloroethyl vinyl ether		<250	µg/L
cis-1,3-Dichloropropene		<50.0	µg/L
trans-1,3-Dichloropropene		<50.0	µg/L
Toluene		<50.0	µg/L
1,1,2-Trichloroethane		<50.0	µg/L
1,3-Dichloropropane		<50.0	µg/L
Dibromochloromethane		<50.0	µg/L
1,2-Dibromoethane (EDB)		<50.0	µg/L
Tetrachloroethene (PCE)		<50.0	µg/L
Chlorobenzene		<50.0	µg/L
1,1,1,2-Tetrachloroethane		<50.0	µg/L
Ethylbenzene		<50.0	µg/L
m,p-Xylene		<50.0	µg/L
Bromoform		<50.0	µg/L
Styrene		<50.0	µg/L
o-Xylene		<50.0	µg/L
1,1,2,2-Tetrachloroethane		<50.0	µg/L
2-Chlorotoluene		<50.0	µg/L
1,2,3-Trichloropropane		<50.0	µg/L
Isopropylbenzene		<50.0	µg/L
Bromobenzene		<50.0	µg/L
n-Propylbenzene		<50.0	µg/L
1,3,5-Trimethylbenzene		<50.0	µg/L
tert-Butylbenzene		<50.0	µg/L
1,2,4-Trimethylbenzene		<50.0	µg/L
1,4-Dichlorobenzene (para)		<50.0	µg/L
sec-Butylbenzene		<50.0	µg/L
1,3-Dichlorobenzene		<50.0	µg/L
p-Isopropyltoluene		<50.0	µg/L
4-Chlorotoluene		<50.0	µg/L
1,2-Dichlorobenzene (ortho)		<50.0	µg/L
n-Butylbenzene		<50.0	µg/L
1,2-Dibromo-3-chloropropane		<250	µg/L
1,2,3-Trichlorobenzene		<250	µg/L
1,2,4-Trichlorobenzene		<250	µg/L
Naphthalene		<250	µg/L
Hexachlorobutadiene		<250	µg/L

Sample: 181857 - MW-29

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L

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Sample 181857 continued ...

Param	Flag	Result	Units
Carbon Disulfide		1.53	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		2.08	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		27.2	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		1.22	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		12.7	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L

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Sample 181857 continued ...

Param	Flag	Result	Units
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 181858 - KWB 13

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		1.08	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L

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Sample 181858 continued ...

Param	Flag	Result	Units
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

181856-58

Page____of____

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Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A01101608

Company Name: Navajo Refining
Phone #: 748-3311
Address: (Street, City, Zip) 501 E Main Street
Fax #: 746-5421
Contact Person: Darrell Moore OR Charlie Plymale
Invoice to: (If different from above)
Project #:
Project Name: Qtrly Offsite
Project Location: Artesia
Sampler Signature: Charlie Plymale

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Vol					Turn Around Time if different from standard	Hold
181856	MW 28	2	40ml	X				X				X		10-15-01	1020				See List												X						
57	MW 29	2	40ml	X				X				X		10-15-01	1030																X						
58	KWB 13	2	40ml	X				X				X		10-15-01	1000																X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Charlie Plymale	10/15/01	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Chesley	Date: 10-15-01	Time: 16:15

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3 °
Log-in Review MS

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fed Ex 2316 7286 8066

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 11, 2002

Order ID Number: A02010910

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
188545	RA 3156	Water	1/8/02	10:35	1/9/02
188546	KWB 9	Water	1/8/02	10:00	1/9/02
188547	RA 4196	Water	1/8/02	10:05	1/9/02
188548	RA 4798	Water	1/8/02	10:10	1/9/02
188549	KWB 3A	Water	1/8/02	10:20	1/9/02
188550	RA 3353	Water	1/8/02	10:25	1/9/02
188551	KWB 1A	Water	1/8/02	10:45	1/9/02
188552	KWB 1C	Water	1/8/02	10:55	1/9/02
188553	Laure Well	Water	1/8/02	9:45	1/9/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 188545 - RA 3156

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		1.04	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188545 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.9	μg/L	1	50	100	84 - 122
Toluene-d8		48.0	μg/L	1	50	96	95 - 105
4-Bromofluorobenzene		49.7	μg/L	1	50	99	91 - 108

Sample: 188546 - KWB 9

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188546 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		1.48	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.3	µg/L	1	50	99	84 - 122
Toluene-d8		47.8	µg/L	1	50	96	95 - 105
4-Bromofluorobenzene		49.6	µg/L	1	50	99	91 - 108

Sample: 188547 - RA 4196

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 188547 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.1	μg/L	1	50	98	84 - 122
Toluene-d8		48.0	μg/L	1	50	96	95 - 105
4-Bromofluorobenzene		49.1	μg/L	1	50	98	91 - 108

Sample: 188548 - RA 4798

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 188548 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		2.63	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		2.28	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 188548 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.8	μg/L	1	50	100	84 - 122
Toluene-d8		47.9	μg/L	1	50	96	95 - 105
4-Bromofluorobenzene		49.6	μg/L	1	50	99	91 - 108

Sample: 188549 - KWB 3A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188549 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	1
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.0	µg/L	1	50	100	84 - 122
Toluene-d8		48.0	µg/L	1	50	96	95 - 105
4-Bromofluorobenzene		50.3	µg/L	1	50	101	91 - 108

Sample: 188550 - RA 3353

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 188550 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188550 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.9	μg/L	1	50	100	84 - 122
Toluene-d8		48.4	μg/L	1	50	97	95 - 105
4-Bromofluorobenzene		49.6	μg/L	1	50	99	91 - 108

Sample: 188551 - KWB 1A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		22.8	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188551 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		1.64	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.4	μg/L	1	50	101	84 - 122
Toluene-d8		48.0	μg/L	1	50	96	95 - 105
4-Bromofluorobenzene		50.3	μg/L	1	50	101	91 - 108

Sample: 188552 - KWB 1C

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188552 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		42.3	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188552 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		1.27	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.9	μg/L	1	50	100	84 - 122
Toluene-d8		48.7	μg/L	1	50	97	95 - 105
4-Bromofluorobenzene		48.7	μg/L	1	50	97	91 - 108

Sample: 188553 - Laure Well

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17201	Date Analyzed:	1/9/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB16955	Date Prepared:	1/9/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188553 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.4	μg/L	1	50	101	84 - 122
Toluene-d8		48.1	μg/L	1	50	96	95 - 105
4-Bromofluorobenzene		49.4	μg/L	1	50	99	91 - 108

Quality Control Report
Method Blank

Method Blank QCBatch: QC17201

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.9	µg/L	1	50	100	84 - 122
Toluene-d8		47.8	µg/L	1	50	96	95 - 105
4-Bromofluorobenzene		49.2	µg/L	1	50	98	91 - 108

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC17201

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	105	106	µg/L	1	100	<1.00	105	1	92 - 129	20
Benzene	99.9	101	µg/L	1	100	<1.00	100	1	94 - 112	20
Trichloroethene (TCE)	106	105	µg/L	1	100	<1.00	106	1	90 - 113	20
Toluene	99.2	98.2	µg/L	1	100	<1.00	99	1	89 - 109	20
Chlorobenzene	101	102	µg/L	1	100	<1.00	101	1	93 - 114	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	49.5	48.6	µg/L	1	50	99	97	84 - 122
Toluene-d8	47.4	48.2	µg/L	1	50	95	96	95 - 105
4-Bromofluorobenzene	50.4	49.5	µg/L	1	50	101	99	91 - 108

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC17201

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	85.0	85	80 - 120	1/9/02
1,1-Dichloroethene		µg/L	100	99.0	99	80 - 120	1/9/02
Chloroform		µg/L	100	96.0	96	80 - 120	1/9/02
1,2-Dichloropropane		µg/L	100	97.0	97	80 - 120	1/9/02
Toluene		µg/L	100	98.0	98	80 - 120	1/9/02
Chlorobenzene		µg/L	100	99.0	99	80 - 120	1/9/02
Ethylbenzene		µg/L	100	98.0	98	80 - 120	1/9/02
Dibromofluoromethane		µg/L	50	48.9	98	80 - 120	1/9/02
Toluene-d8		µg/L	50	47.7	95	80 - 120	1/9/02
4-Bromofluorobenzene		µg/L	50	51.1	102	80 - 120	1/9/02

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 11, 2002

Order ID Number: A02010910

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
188545	RA 3156	Water	1/8/02	10:35	1/9/02
188546	KWB 9	Water	1/8/02	10:00	1/9/02
188547	RA 4196	Water	1/8/02	10:05	1/9/02
188548	RA 4798	Water	1/8/02	10:10	1/9/02
188549	KWB 3A	Water	1/8/02	10:20	1/9/02
188550	RA 3353	Water	1/8/02	10:25	1/9/02
188551	KWB 1A	Water	1/8/02	10:45	1/9/02
188552	KWB 1C	Water	1/8/02	10:55	1/9/02
188553	Laure Well	Water	1/8/02	9:45	1/9/02

This report consists of a total of 14 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 188545 - RA 3156

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		1.04	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L

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Sample 188545 continued ...

Param	Flag	Result	Units
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188546 - KWB 9

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L

Continued on next page ...

Sample 188546 continued ...

Param	Flag	Result	Units
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		1.48	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L

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Sample 188546 continued ...

Param	Flag	Result	Units
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188547 - RA 4196

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L

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Sample 188547 continued ...

Param	Flag	Result	Units
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 188548 - RA 4798

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L

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Sample 188548 continued ...

Param	Flag	Result	Units
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		2.63	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		2.28	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L

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Sample 188548 continued ...

Param	Flag	Result	Units
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 188549 - KWB 3A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L

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Sample 188549 continued ...

Param	Flag	Result	Units
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 188550 - RA 3353

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L

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Sample 188550 continued ...

Param	Flag	Result	Units
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 188551 - KWB 1A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L

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Sample 188551 continued ...

Param	Flag	Result	Units
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		22.8	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L

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Sample 188551 continued ...

Param	Flag	Result	Units
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		1.64	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188552 - KWB 1C

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		42.3	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L

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Sample 188552 continued ...

Param	Flag	Result	Units
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		1.27	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188553 - Laure Well

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L

Continued on next page ...

Sample 188553 continued ...

Param	Flag	Result	Units
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		<1.00	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L

Continued on next page ...

Sample 188553 continued ...

Param	Flag	Result	Units
Hexachlorobutadiene		<5.00	μg/L

188545-53

Page____of____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A02010910

Company Name: Navajo Refining Co.
Phone #:
Address: (Street, City, Zip)
Fax #:
Contact Person:
Invoice to: (If different from above)
Project #:
Project Name: OtRLY OBF
Project Location: Artesia
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	See List					Turn Around Time if different from standard	Hold
188545	RA 3156	2	40m	X				X				X		1/8	1035																X						
46	KWb 9	↓	↓	↓				↓				↓		↓	1000																X						
47	RA 4196														1005																X						
48	RA 4798														1010																X						
49	KWb 3A														1020																X						
50	RA 3353														1025																X						
51	KWb 1A														1045																X						
52	KWb 1C														1055																X						
53	Laure Well														0945																X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	1/8/02	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Blevins	1-9-02	10:00a

LAB USE ONLY
Intact (Y) N
Headspace Y (N)
Temp -1 °
Log-in Review MS

REMARKS: 1/11/02

☐ Check If Special Reporting Limits Are Needed

Carrier # FedEx 346-1662-066

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 25, 2002

Order ID Number: A02011107

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
188678	KWB 11A	Water	1/10/02	9:15	1/11/02
188679	KWB 2R	Water	1/10/02	13:20	1/11/02
188680	RWB 7	Water	1/10/02	9:00	1/11/02
188681	NP 2	Water	1/10/02	15:10	1/11/02
188682	NP 1	Water	1/10/02	15:00	1/11/02
188683	MW-45	Water	1/10/02	10:35	1/11/02
188684	KWB 13	Water	1/10/02	10:00	1/11/02
188685	MW-18	Water	1/10/02	14:30	1/11/02

0
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 188678 - KWB 11A

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17397	Date Analyzed:	1/15/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17099	Date Prepared:	1/15/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		11.5	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 188678 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.1	μg/L	1	50	104	84 - 122
Toluene-d8		49.8	μg/L	1	50	100	95 - 105
4-Bromofluorobenzene		48.0	μg/L	1	50	96	91 - 108

Sample: 188679 - KWB 2R

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17397	Date Analyzed:	1/15/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17099	Date Prepared:	1/15/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<5.00	μg/L	5	1
Dichlorodifluoromethane		<5.00	μg/L	5	1
Chloromethane (methyl chloride)		<5.00	μg/L	5	1
Vinyl Chloride		<5.00	μg/L	5	1
Bromomethane (methyl bromide)		<25.0	μg/L	5	5
Chloroethane		<5.00	μg/L	5	1
Trichlorofluoromethane		<5.00	μg/L	5	1
Acetone		<50.0	μg/L	5	10
Iodomethane (methyl iodide)		<25.0	μg/L	5	5
Carbon Disulfide		<5.00	μg/L	5	1
Acrylonitrile		<5.00	μg/L	5	1
2-Butanone (MEK)		<25.0	μg/L	5	5
4-methyl-2-pentanone (MIBK)		<25.0	μg/L	5	5
2-hexanone		<25.0	μg/L	5	5
trans 1,4-Dichloro-2-butene		<50.0	μg/L	1	10
1,1-Dichloroethene		<5.00	μg/L	5	1
Methylene chloride		<25.0	μg/L	5	5
MTBE		<5.00	μg/L	5	1

Continued ...

... *Continued* Sample: 188679 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<5.00	μg/L	5	1
1,1-Dichloroethane		<5.00	μg/L	5	1
cis-1,2-Dichloroethene		<5.00	μg/L	5	1
2,2-Dichloropropane		<5.00	μg/L	5	1
1,2-Dichloroethane (EDC)		<5.00	μg/L	5	1
Chloroform		<5.00	μg/L	5	1
1,1,1-Trichloroethane		<5.00	μg/L	5	1
1,1-Dichloropropene		<5.00	μg/L	5	1
Benzene		39.0	μg/L	5	1
Carbon Tetrachloride		<5.00	μg/L	5	1
1,2-Dichloropropane		<5.00	μg/L	5	1
Trichloroethene (TCE)		<5.00	μg/L	5	1
Dibromomethane (methylene bromide)		<5.00	μg/L	5	1
Bromodichloromethane		<5.00	μg/L	5	1
2-Chloroethyl vinyl ether		<25.0	μg/L	5	5
cis-1,3-Dichloropropene		<5.00	μg/L	5	1
trans-1,3-Dichloropropene		<5.00	μg/L	5	1
Toluene		<5.00	μg/L	5	1
1,1,2-Trichloroethane		<5.00	μg/L	5	1
1,3-Dichloropropane		<5.00	μg/L	5	1
Dibromochloromethane		<5.00	μg/L	5	1
1,2-Dibromoethane (EDB)		<5.00	μg/L	5	1
Tetrachloroethene (PCE)		<5.00	μg/L	5	1
Chlorobenzene		<5.00	μg/L	5	1
1,1,1,2-Tetrachloroethane		<5.00	μg/L	5	1
Ethylbenzene		7.80	μg/L	5	1
m,p-Xylene		<5.00	μg/L	5	1
Bromoform		<5.00	μg/L	5	1
Styrene		<5.00	μg/L	5	1
o-Xylene		<5.00	μg/L	5	1
1,1,2,2-Tetrachloroethane		<5.00	μg/L	5	1
2-Chlorotoluene		<5.00	μg/L	5	1
1,2,3-Trichloropropane		<5.00	μg/L	5	1
Isopropylbenzene		<5.00	μg/L	5	1
Bromobenzene		<5.00	μg/L	5	1
n-Propylbenzene		<5.00	μg/L	5	1
1,3,5-Trimethylbenzene		<5.00	μg/L	5	1
tert-Butylbenzene		<5.00	μg/L	5	1
1,2,4-Trimethylbenzene		<5.00	μg/L	5	1
1,4-Dichlorobenzene (para)		<5.00	μg/L	5	1
sec-Butylbenzene		<5.00	μg/L	5	1
1,3-Dichlorobenzene		<5.00	μg/L	5	1
p-Isopropyltoluene		<5.00	μg/L	5	1
4-Chlorotoluene		<5.00	μg/L	5	1
1,2-Dichlorobenzene (ortho)		<5.00	μg/L	5	1
n-Butylbenzene		<5.00	μg/L	5	1
1,2-Dibromo-3-chloropropane		<25.0	μg/L	5	5
1,2,3-Trichlorobenzene		<25.0	μg/L	5	5
1,2,4-Trichlorobenzene		<25.0	μg/L	5	5
Naphthalene		<25.0	μg/L	5	1
Hexachlorobutadiene		<25.0	μg/L	5	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		56.3	µg/L	5	50	112	84 - 122
Toluene-d8		48.2	µg/L	5	50	96	95 - 105
4-Bromofluorobenzene		47.6	µg/L	5	50	95	91 - 108

Sample: 188680 - RWB 7

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17397	Date Analyzed:	1/15/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17099	Date Prepared:	1/15/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<5.00	µg/L	1	5
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<5.00	µg/L	1	5
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		23.9	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		1.86	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 188680 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.9	μg/L	1	50	106	84 - 122
Toluene-d8		49.4	μg/L	1	50	99	95 - 105
4-Bromofluorobenzene		47.0	μg/L	1	50	94	91 - 108

Sample: 188681 - NP 2

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17397	Date Analyzed:	1/15/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17099	Date Prepared:	1/15/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5

Continued ...

... *Continued* Sample: 188681 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		3.55	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5

Continued ...

... Continued Sample: 188681 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.7	μg/L	1	50	107	84 - 122
Toluene-d8		49.7	μg/L	1	50	99	95 - 105
4-Bromofluorobenzene		47.8	μg/L	1	50	96	91 - 108

Sample: 188682 - NP 1

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17397	Date Analyzed:	1/15/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17099	Date Prepared:	1/15/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		25.0	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188682 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		55.4	μg/L	1	50	111	84 - 122
Toluene-d8		49.3	μg/L	1	50	99	95 - 105
4-Bromofluorobenzene		47.5	μg/L	1	50	95	91 - 108

Sample: 188683 - MW-45

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17427	Date Analyzed:	1/16/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17128	Date Prepared:	1/16/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<5.00	μg/L	5	1
Dichlorodifluoromethane		<5.00	μg/L	5	1
Chloromethane (methyl chloride)		<5.00	μg/L	5	1
Vinyl Chloride		<5.00	μg/L	5	1
Bromomethane (methyl bromide)		<25.0	μg/L	5	5
Chloroethane		<5.00	μg/L	5	1
Trichlorofluoromethane		<5.00	μg/L	5	1

Continued ...

... *Continued* Sample: 188683 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Acetone		57.8	μg/L	5	10
Iodomethane (methyl iodide)		<25.0	μg/L	5	5
Carbon Disulfide		<5.00	μg/L	5	1
Acrylonitrile		<5.00	μg/L	5	1
2-Butanone (MEK)		<25.0	μg/L	5	5
4-methyl-2-pentanone (MIBK)		<25.0	μg/L	5	5
2-hexanone		<25.0	μg/L	5	5
trans 1,4-Dichloro-2-butene		<50.0	μg/L	5	10
1,1-Dichloroethene		<5.00	μg/L	5	1
Methylene chloride		<25.0	μg/L	5	5
MTBE		<5.00	μg/L	5	1
trans-1,2-Dichloroethene		<5.00	μg/L	5	1
1,1-Dichloroethane		<5.00	μg/L	5	1
cis-1,2-Dichloroethene		<5.00	μg/L	5	1
2,2-Dichloropropane		<5.00	μg/L	5	1
1,2-Dichloroethane (EDC)		<5.00	μg/L	5	1
Chloroform		<5.00	μg/L	5	1
1,1,1-Trichloroethane		<5.00	μg/L	5	1
1,1-Dichloropropene		<5.00	μg/L	5	1
Benzene		<5.00	μg/L	5	1
Carbon Tetrachloride		<5.00	μg/L	5	1
1,2-Dichloropropane		<5.00	μg/L	5	1
Trichloroethene (TCE)		<5.00	μg/L	5	1
Dibromomethane (methylene bromide)		<5.00	μg/L	5	1
Bromodichloromethane		<5.00	μg/L	5	1
2-Chloroethyl vinyl ether		<25.0	μg/L	5	5
cis-1,3-Dichloropropene		<5.00	μg/L	5	1
trans-1,3-Dichloropropene		<5.00	μg/L	5	1
Toluene		<5.00	μg/L	5	1
1,1,2-Trichloroethane		<5.00	μg/L	5	1
1,3-Dichloropropane		<5.00	μg/L	5	1
Dibromochloromethane		<5.00	μg/L	5	1
1,2-Dibromoethane (EDB)		<5.00	μg/L	5	1
Tetrachloroethene (PCE)		<5.00	μg/L	5	1
Chlorobenzene		<5.00	μg/L	5	1
1,1,1,2-Tetrachloroethane		<5.00	μg/L	5	1
Ethylbenzene		<5.00	μg/L	5	1
m,p-Xylene		<5.00	μg/L	5	1
Bromoform		<5.00	μg/L	5	1
Styrene		<5.00	μg/L	5	1
o-Xylene		12.8	μg/L	5	1
1,1,2,2-Tetrachloroethane		<5.00	μg/L	5	1
2-Chlorotoluene		<5.00	μg/L	5	1
1,2,3-Trichloropropane		<5.00	μg/L	5	1
Isopropylbenzene		9.75	μg/L	5	1
Bromobenzene		<5.00	μg/L	5	1
n-Propylbenzene		<5.00	μg/L	5	1
1,3,5-Trimethylbenzene		<5.00	μg/L	5	1
tert-Butylbenzene		<5.00	μg/L	5	1
1,2,4-Trimethylbenzene		<5.00	μg/L	5	1
1,4-Dichlorobenzene (para)		<5.00	μg/L	5	1
sec-Butylbenzene		<5.00	μg/L	5	1
1,3-Dichlorobenzene		<5.00	μg/L	5	1
p-Isopropyltoluene		<5.00	μg/L	5	1

Continued ...

... Continued Sample: 188683 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
4-Chlorotoluene		<5.00	μg/L	5	1
1,2-Dichlorobenzene (ortho)		<5.00	μg/L	5	1
n-Butylbenzene		<5.00	μg/L	5	1
1,2-Dibromo-3-chloropropane		<25.0	μg/L	5	5
1,2,3-Trichlorobenzene		<25.0	μg/L	5	5
1,2,4-Trichlorobenzene		<25.0	μg/L	5	5
Naphthalene		<25.0	μg/L	5	1
Hexachlorobutadiene		<25.0	μg/L	5	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.8	μg/L	5	50	105	84 - 122
Toluene-d8		48.8	μg/L	5	50	97	95 - 105
4-Bromofluorobenzene		47.4	μg/L	5	50	94	91 - 108

Sample: 188684 - KWB 13

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17397	Date Analyzed:	1/15/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17099	Date Prepared:	1/15/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		1.04	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188684 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		1.04	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		56.5	μg/L	1	50	113	84 - 122
Toluene-d8		48.8	μg/L	1	50	98	95 - 105
4-Bromofluorobenzene		47.9	μg/L	1	50	96	91 - 108

Sample: 188685 - MW-18

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17427	Date Analyzed:	1/16/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17128	Date Prepared:	1/16/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188685 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		<1.00	μg/L	1	1
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		3.93	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		4.24	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		<1.00	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1

Continued ...

... *Continued* Sample: 188685 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
tert-Butylbenzene		<1.00	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		<1.00	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.5	μg/L	1	50	101	84 - 122
Toluene-d8		50.0	μg/L	1	50	100	95 - 105
4-Bromofluorobenzene		48.4	μg/L	1	50	97	91 - 108

Quality Control Report
Method Blank

Method Blank QCBatch: QC17397

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.4	µg/L	1	50	105	84 - 122
Toluene-d8		49.2	µg/L	1	50	98	95 - 105
4-Bromofluorobenzene		46.9	µg/L	1	50	94	91 - 108

Method Blank QCBatch: QC17427

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	μg/L	1
1,1-Dichloroethane		<1.00	μg/L	1
cis-1,2-Dichloroethene		<1.00	μg/L	1
2,2-Dichloropropane		<1.00	μg/L	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1
Chloroform		<1.00	μg/L	1
1,1,1-Trichloroethane		<1.00	μg/L	1
1,1-Dichloropropene		<1.00	μg/L	1
Benzene		<1.00	μg/L	1
Carbon Tetrachloride		<1.00	μg/L	1
1,2-Dichloropropane		<1.00	μg/L	1
Trichloroethene (TCE)		<1.00	μg/L	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1
Bromodichloromethane		<1.00	μg/L	1
2-Chloroethyl vinyl ether		<5.00	μg/L	5
cis-1,3-Dichloropropene		<1.00	μg/L	1
trans-1,3-Dichloropropene		<1.00	μg/L	1
Toluene		<1.00	μg/L	1
1,1,2-Trichloroethane		<1.00	μg/L	1
1,3-Dichloropropane		<1.00	μg/L	1
Dibromochloromethane		<1.00	μg/L	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1
Tetrachloroethene (PCE)		<1.00	μg/L	1
Chlorobenzene		<1.00	μg/L	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1
Ethylbenzene		<1.00	μg/L	1
m,p-Xylene		<1.00	μg/L	1
Bromoform		<1.00	μg/L	1
Styrene		<1.00	μg/L	1
o-Xylene		<1.00	μg/L	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1
2-Chlorotoluene		<1.00	μg/L	1
1,2,3-Trichloropropane		<1.00	μg/L	1
Isopropylbenzene		<1.00	μg/L	1
Bromobenzene		<1.00	μg/L	1
n-Propylbenzene		<1.00	μg/L	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1
tert-Butylbenzene		<1.00	μg/L	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1
sec-Butylbenzene		<1.00	μg/L	1
1,3-Dichlorobenzene		<1.00	μg/L	1
p-Isopropyltoluene		<1.00	μg/L	1
4-Chlorotoluene		<1.00	μg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1
n-Butylbenzene		<1.00	μg/L	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	5
1,2,3-Trichlorobenzene		<5.00	μg/L	5
1,2,4-Trichlorobenzene		<5.00	μg/L	5
Naphthalene		<5.00	μg/L	1
Hexachlorobutadiene		<5.00	μg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		55.6	µg/L	1	50	111	84 - 122
Toluene-d8		48.4	µg/L	1	50	97	95 - 105
4-Bromofluorobenzene		48.4	µg/L	1	50	97	91 - 108

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC17397

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	106	106	µg/L	1	100	<1.00	106	0	70 - 130	20
Benzene	100	99.0	µg/L	1	100	<1.00	100	1	70 - 130	20
Trichloroethene (TCE)	89.0	89.0	µg/L	1	100	<1.00	89	0	70 - 130	20
Toluene	92.0	90.0	µg/L	1	100	<1.00	92	2	70 - 130	20
Chlorobenzene	87.0	86.0	µg/L	1	100	<1.00	87	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	48.1	48.6	µg/L	1	50	96	97	84 - 122
Toluene-d8	48.9	48.9	µg/L	1	50	98	98	95 - 105
4-Bromofluorobenzene	48.7	48.0	µg/L	1	50	97	96	91 - 108

Laboratory Control Spikes QCBatch: QC17427

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	109	106	µg/L	1	100	<1.00	109	3	70 - 130	20
Benzene	102	99.0	µg/L	1	100	<1.00	102	3	70 - 130	20
Trichloroethene (TCE)	91.0	88.0	µg/L	1	100	<1.00	91	3	70 - 130	20
Toluene	94.0	92.0	µg/L	1	100	<1.00	94	2	70 - 130	20
Chlorobenzene	88.0	87.0	µg/L	1	100	<1.00	88	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	48.9	49.6	µg/L	1	50	98	99	84 - 122
Toluene-d8	49.3	50.2	µg/L	1	50	99	100	95 - 105
4-Bromofluorobenzene	49.2	49.1	µg/L	1	50	98	98	91 - 108

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QCBatch: QC17397

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	90.0	90	80 - 120	1/15/02
1,1-Dichloroethene		µg/L	100	95.0	95	80 - 120	1/15/02
Chloroform		µg/L	100	91.0	91	80 - 120	1/15/02
1,2-Dichloropropane		µg/L	100	92.0	92	80 - 120	1/15/02
Toluene		µg/L	100	88.0	88	80 - 120	1/15/02
Chlorobenzene		µg/L	100	84.0	84	80 - 120	1/15/02
Ethylbenzene		µg/L	100	94.0	94	80 - 120	1/15/02
Dibromofluoromethane		µg/L	50	48.8	98	80 - 120	1/15/02
Toluene-d8		µg/L	50	49.3	99	80 - 120	1/15/02
4-Bromofluorobenzene		µg/L	50	47.3	95	80 - 120	1/15/02

CCV (1) QCBatch: QC17427

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	94.0	94	80 - 120	1/16/02
1,1-Dichloroethene		µg/L	100	100	100	80 - 120	1/16/02
Chloroform		µg/L	100	95.0	95	80 - 120	1/16/02
1,2-Dichloropropane		µg/L	100	96.0	96	80 - 120	1/16/02
Toluene		µg/L	100	91.0	91	80 - 120	1/16/02
Chlorobenzene		µg/L	100	85.0	85	80 - 120	1/16/02
Ethylbenzene		µg/L	100	97.0	97	80 - 120	1/16/02
Dibromofluoromethane		µg/L	50	49.4	99	80 - 120	1/16/02
Toluene-d8		µg/L	50	49.5	99	80 - 120	1/16/02
4-Bromofluorobenzene		µg/L	50	48.9	98	80 - 120	1/16/02

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 24, 2002

Order ID Number: A02011107

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
188686	MW-28	Water	1/10/02	15:20	1/11/02
188687	MW-29	Water	1/10/02	15:00	1/11/02

0
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 188686 - MW-28

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17499	Date Analyzed:	1/18/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17188	Date Prepared:	1/18/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<50.0	µg/L	50	1
Dichlorodifluoromethane		<50.0	µg/L	50	1
Chloromethane (methyl chloride)		<50.0	µg/L	50	1
Vinyl Chloride		<50.0	µg/L	50	1
Bromomethane (methyl bromide)		<250	µg/L	50	5
Chloroethane		<50.0	µg/L	50	1
Trichlorofluoromethane		<50.0	µg/L	50	1
Acetone		<500	µg/L	50	10
Iodomethane (methyl iodide)		<250	µg/L	50	5
Carbon Disulfide		112	µg/L	50	1
Acrylonitrile		<50.0	µg/L	50	1
2-Butanone (MEK)		<250	µg/L	50	5
4-methyl-2-pentanone (MIBK)		<250	µg/L	50	5
2-hexanone		<250	µg/L	50	5
trans 1,4-Dichloro-2-butene		<500	µg/L	50	10
1,1-Dichloroethene		<50.0	µg/L	50	1
Methylene chloride		<250	µg/L	50	5
MTBE		5800	µg/L	50	1
trans-1,2-Dichloroethene		<50.0	µg/L	50	1
1,1-Dichloroethane		<50.0	µg/L	50	1
cis-1,2-Dichloroethene		<50.0	µg/L	50	1
2,2-Dichloropropane		<50.0	µg/L	50	1
1,2-Dichloroethane (EDC)		<50.0	µg/L	50	1
Chloroform		<50.0	µg/L	50	1
1,1,1-Trichloroethane		<50.0	µg/L	50	1
1,1-Dichloropropene		<50.0	µg/L	50	1
Benzene		570	µg/L	50	1
Carbon Tetrachloride		<50.0	µg/L	50	1
1,2-Dichloropropane		<50.0	µg/L	50	1
Trichloroethene (TCE)		<50.0	µg/L	50	1
Dibromomethane (methylene bromide)		<50.0	µg/L	50	1
Bromodichloromethane		<50.0	µg/L	50	1
2-Chloroethyl vinyl ether		<250	µg/L	50	5
cis-1,3-Dichloropropene		<50.0	µg/L	50	1
trans-1,3-Dichloropropene		<50.0	µg/L	50	1
Toluene		<50.0	µg/L	50	1
1,1,2-Trichloroethane		<50.0	µg/L	50	1
1,3-Dichloropropane		<50.0	µg/L	50	1
Dibromochloromethane		<50.0	µg/L	50	1
1,2-Dibromoethane (EDB)		<50.0	µg/L	50	1
Tetrachloroethene (PCE)		<50.0	µg/L	50	1
Chlorobenzene		<50.0	µg/L	50	1
1,1,1,2-Tetrachloroethane		<50.0	µg/L	50	1
Ethylbenzene		<50.0	µg/L	50	1
m,p-Xylene		<50.0	µg/L	50	1
Bromoform		<50.0	µg/L	50	1
Styrene		<50.0	µg/L	50	1
o-Xylene		<50.0	µg/L	50	1

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... *Continued* Sample: 188686 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<50.0	μg/L	50	1
2-Chlorotoluene		<50.0	μg/L	50	1
1,2,3-Trichloropropane		<50.0	μg/L	50	1
Isopropylbenzene		61.1	μg/L	50	1
Bromobenzene		<50.0	μg/L	50	1
n-Propylbenzene		86.3	μg/L	50	1
1,3,5-Trimethylbenzene		<50.0	μg/L	50	1
tert-Butylbenzene		<50.0	μg/L	50	1
1,2,4-Trimethylbenzene		<50.0	μg/L	50	1
1,4-Dichlorobenzene (para)		<50.0	μg/L	50	1
sec-Butylbenzene		<50.0	μg/L	50	1
1,3-Dichlorobenzene		<50.0	μg/L	50	1
p-Isopropyltoluene		<50.0	μg/L	50	1
4-Chlorotoluene		<50.0	μg/L	50	1
1,2-Dichlorobenzene (ortho)		<50.0	μg/L	50	1
n-Butylbenzene		<50.0	μg/L	50	1
1,2-Dibromo-3-chloropropane		<250	μg/L	50	5
1,2,3-Trichlorobenzene		<250	μg/L	50	5
1,2,4-Trichlorobenzene		<250	μg/L	50	5
Naphthalene		<250	μg/L	50	1
Hexachlorobutadiene		<250	μg/L	50	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.7	μg/L	50	50	95	84 - 122
Toluene-d8		50.4	μg/L	50	50	100	95 - 105
4-Bromofluorobenzene		49.3	μg/L	50	50	98	91 - 108

Sample: 188687 - MW-29

Analysis:	624	Analytical Method:	E 624	QC Batch:	QC17499	Date Analyzed:	1/18/02
Analyst:	JG	Preparation Method:	N/A	Prep Batch:	PB17188	Date Prepared:	1/18/02

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	μg/L	1	1
Dichlorodifluoromethane		<1.00	μg/L	1	1
Chloromethane (methyl chloride)		<1.00	μg/L	1	1
Vinyl Chloride		<1.00	μg/L	1	1
Bromomethane (methyl bromide)		<5.00	μg/L	1	5
Chloroethane		<1.00	μg/L	1	1
Trichlorofluoromethane		<1.00	μg/L	1	1
Acetone		<10.0	μg/L	1	10
Iodomethane (methyl iodide)		<5.00	μg/L	1	5
Carbon Disulfide		<1.00	μg/L	1	1
Acrylonitrile		<1.00	μg/L	1	1
2-Butanone (MEK)		<5.00	μg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	μg/L	1	5
2-hexanone		<5.00	μg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	μg/L	1	10
1,1-Dichloroethene		<1.00	μg/L	1	1
Methylene chloride		<5.00	μg/L	1	5
MTBE		1.73	μg/L	1	1

Continued ...

... *Continued* Sample: 188687 Analysis: 624

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	μg/L	1	1
1,1-Dichloroethane		<1.00	μg/L	1	1
cis-1,2-Dichloroethene		<1.00	μg/L	1	1
2,2-Dichloropropane		<1.00	μg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	μg/L	1	1
Chloroform		<1.00	μg/L	1	1
1,1,1-Trichloroethane		<1.00	μg/L	1	1
1,1-Dichloropropene		<1.00	μg/L	1	1
Benzene		<1.00	μg/L	1	1
Carbon Tetrachloride		<1.00	μg/L	1	1
1,2-Dichloropropane		<1.00	μg/L	1	1
Trichloroethene (TCE)		<1.00	μg/L	1	1
Dibromomethane (methylene bromide)		<1.00	μg/L	1	1
Bromodichloromethane		<1.00	μg/L	1	1
2-Chloroethyl vinyl ether		<5.00	μg/L	1	5
cis-1,3-Dichloropropene		<1.00	μg/L	1	1
trans-1,3-Dichloropropene		<1.00	μg/L	1	1
Toluene		<1.00	μg/L	1	1
1,1,2-Trichloroethane		<1.00	μg/L	1	1
1,3-Dichloropropane		<1.00	μg/L	1	1
Dibromochloromethane		<1.00	μg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	μg/L	1	1
Tetrachloroethene (PCE)		<1.00	μg/L	1	1
Chlorobenzene		<1.00	μg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	μg/L	1	1
Ethylbenzene		<1.00	μg/L	1	1
m,p-Xylene		<1.00	μg/L	1	1
Bromoform		<1.00	μg/L	1	1
Styrene		<1.00	μg/L	1	1
o-Xylene		<1.00	μg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	μg/L	1	1
2-Chlorotoluene		<1.00	μg/L	1	1
1,2,3-Trichloropropane		<1.00	μg/L	1	1
Isopropylbenzene		20.6	μg/L	1	1
Bromobenzene		<1.00	μg/L	1	1
n-Propylbenzene		<1.00	μg/L	1	1
1,3,5-Trimethylbenzene		<1.00	μg/L	1	1
tert-Butylbenzene		1.06	μg/L	1	1
1,2,4-Trimethylbenzene		<1.00	μg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	μg/L	1	1
sec-Butylbenzene		10.3	μg/L	1	1
1,3-Dichlorobenzene		<1.00	μg/L	1	1
p-Isopropyltoluene		<1.00	μg/L	1	1
4-Chlorotoluene		<1.00	μg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	μg/L	1	1
n-Butylbenzene		<1.00	μg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	μg/L	1	5
1,2,3-Trichlorobenzene		<5.00	μg/L	1	5
1,2,4-Trichlorobenzene		<5.00	μg/L	1	5
Naphthalene		<5.00	μg/L	1	1
Hexachlorobutadiene		<5.00	μg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.8	μg/L	1	50	94	84 - 122
Toluene-d8		50.3	μg/L	1	50	101	95 - 105
4-Bromofluorobenzene		50.0	μg/L	1	50	100	91 - 108

Quality Control Report
Method Blank

Method Blank QCBatch: QC17499

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<5.00	µg/L	5
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<5.00	µg/L	5
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	1
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.2	µg/L	1	50	94	84 - 122
Toluene-d8		49.9	µg/L	1	50	100	95 - 105
4-Bromofluorobenzene		49.5	µg/L	1	50	99	91 - 108

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC17499

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
1,1-Dichloroethene	99	102	µg/L	1	100	<1.00	99	2	92 - 129	20
Benzene	104	106	µg/L	1	100	<1.00	104	1	94 - 112	20
Trichloroethene (TCE)	93	93	µg/L	1	100	<1.00	93	0	90 - 113	20
Toluene	103	104	µg/L	1	100	<1.00	103	0	89 - 109	20
Chlorobenzene	103	104	µg/L	1	100	<1.00	103	0	93 - 114	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
Dibromofluoromethane	47.1	47.6	µg/L	1	50	94	95	84 - 122
Toluene-d8	49.6	49.5	µg/L	1	50	99	99	95 - 105
4-Bromofluorobenzene	49.0	49.1	µg/L	1	50	98	98	91 - 108

Quality Control Report

Continuing Calibration Verification Standards

CCV (1) QCBatch: QC17499

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	102	102	80 - 120	1/18/02
1,1-Dichloroethene		µg/L	100	103	103	80 - 120	1/18/02
Chloroform		µg/L	100	100	100	80 - 120	1/18/02
1,2-Dichloropropane		µg/L	100	103	103	80 - 120	1/18/02
Toluene		µg/L	100	101	101	80 - 120	1/18/02
Chlorobenzene		µg/L	100	103	103	80 - 120	1/18/02
Ethylbenzene		µg/L	100	104	104	80 - 120	1/18/02
Dibromofluoromethane		µg/L	50	45.9	92	80 - 120	1/18/02
Toluene-d8		µg/L	50	50.0	100	80 - 120	1/18/02
4-Bromofluorobenzene		µg/L	50	50.5	101	80 - 120	1/18/02

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 25, 2002

Order ID Number: A02011107

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
188678	KWB 11A	Water	1/10/02	9:15	1/11/02
188679	KWB 2R	Water	1/10/02	13:20	1/11/02
188680	RWB 7	Water	1/10/02	9:00	1/11/02
188681	NP 2	Water	1/10/02	15:10	1/11/02
188682	NP 1	Water	1/10/02	15:00	1/11/02
188683	MW-45	Water	1/10/02	10:35	1/11/02
188684	KWB 13	Water	1/10/02	10:00	1/11/02
188685	MW-18	Water	1/10/02	14:30	1/11/02

0 This report consists of a total of 12 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 188678 - KWB 11A

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		11.5	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L

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Sample 188678 continued ...

Param	Flag	Result	Units
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 188679 - KWB 2R

Param	Flag	Result	Units
Bromochloromethane		<5.00	μg/L
Dichlorodifluoromethane		<5.00	μg/L
Chloromethane (methyl chloride)		<5.00	μg/L

Continued on next page ...

Sample 188679 continued ...

Param	Flag	Result	Units
Vinyl Chloride		<5.00	µg/L
Bromomethane (methyl bromide)		<25.0	µg/L
Chloroethane		<5.00	µg/L
Trichlorofluoromethane		<5.00	µg/L
Acetone		<50.0	µg/L
Iodomethane (methyl iodide)		<25.0	µg/L
Carbon Disulfide		<5.00	µg/L
Acrylonitrile		<5.00	µg/L
2-Butanone (MEK)		<25.0	µg/L
4-methyl-2-pentanone (MIBK)		<25.0	µg/L
2-hexanone		<25.0	µg/L
trans 1,4-Dichloro-2-butene		<50.0	µg/L
1,1-Dichloroethene		<5.00	µg/L
Methylene chloride		<25.0	µg/L
MTBE		<5.00	µg/L
trans-1,2-Dichloroethene		<5.00	µg/L
1,1-Dichloroethane		<5.00	µg/L
cis-1,2-Dichloroethene		<5.00	µg/L
2,2-Dichloropropane		<5.00	µg/L
1,2-Dichloroethane (EDC)		<5.00	µg/L
Chloroform		<5.00	µg/L
1,1,1-Trichloroethane		<5.00	µg/L
1,1-Dichloropropene		<5.00	µg/L
Benzene		39.0	µg/L
Carbon Tetrachloride		<5.00	µg/L
1,2-Dichloropropane		<5.00	µg/L
Trichloroethene (TCE)		<5.00	µg/L
Dibromomethane (methylene bromide)		<5.00	µg/L
Bromodichloromethane		<5.00	µg/L
2-Chloroethyl vinyl ether		<25.0	µg/L
cis-1,3-Dichloropropene		<5.00	µg/L
trans-1,3-Dichloropropene		<5.00	µg/L
Toluene		<5.00	µg/L
1,1,2-Trichloroethane		<5.00	µg/L
1,3-Dichloropropane		<5.00	µg/L
Dibromochloromethane		<5.00	µg/L
1,2-Dibromoethane (EDB)		<5.00	µg/L
Tetrachloroethene (PCE)		<5.00	µg/L
Chlorobenzene		<5.00	µg/L
1,1,1,2-Tetrachloroethane		<5.00	µg/L
Ethylbenzene		7.80	µg/L
m,p-Xylene		<5.00	µg/L
Bromoform		<5.00	µg/L
Styrene		<5.00	µg/L
o-Xylene		<5.00	µg/L
1,1,2,2-Tetrachloroethane		<5.00	µg/L
2-Chlorotoluene		<5.00	µg/L
1,2,3-Trichloropropane		<5.00	µg/L
Isopropylbenzene		<5.00	µg/L
Bromobenzene		<5.00	µg/L
n-Propylbenzene		<5.00	µg/L
1,3,5-Trimethylbenzene		<5.00	µg/L
tert-Butylbenzene		<5.00	µg/L

Continued on next page ...

Sample 188679 continued ...

Param	Flag	Result	Units
1,2,4-Trimethylbenzene		<5.00	μg/L
1,4-Dichlorobenzene (para)		<5.00	μg/L
sec-Butylbenzene		<5.00	μg/L
1,3-Dichlorobenzene		<5.00	μg/L
p-Isopropyltoluene		<5.00	μg/L
4-Chlorotoluene		<5.00	μg/L
1,2-Dichlorobenzene (ortho)		<5.00	μg/L
n-Butylbenzene		<5.00	μg/L
1,2-Dibromo-3-chloropropane		<25.0	μg/L
1,2,3-Trichlorobenzene		<25.0	μg/L
1,2,4-Trichlorobenzene		<25.0	μg/L
Naphthalene		<25.0	μg/L
Hexachlorobutadiene		<25.0	μg/L

Sample: 188680 - RWB 7

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		23.9	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		1.86	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L

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Sample 188680 continued ...

Param	Flag	Result	Units
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188681 - NP 2

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L

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Sample 188681 continued ...

Param	Flag	Result	Units
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		3.55	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L

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Sample 188681 continued ...

Param	Flag	Result	Units
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Sample: 188682 - NP 1

Param	Flag	Result	Units
Bromochloromethane		<1.00	μg/L
Dichlorodifluoromethane		<1.00	μg/L
Chloromethane (methyl chloride)		<1.00	μg/L
Vinyl Chloride		<1.00	μg/L
Bromomethane (methyl bromide)		<5.00	μg/L
Chloroethane		<1.00	μg/L
Trichlorofluoromethane		<1.00	μg/L
Acetone		<10.0	μg/L
Iodomethane (methyl iodide)		<5.00	μg/L
Carbon Disulfide		<1.00	μg/L
Acrylonitrile		<1.00	μg/L
2-Butanone (MEK)		<5.00	μg/L
4-methyl-2-pentanone (MIBK)		<5.00	μg/L
2-hexanone		<5.00	μg/L
trans 1,4-Dichloro-2-butene		<10.0	μg/L
1,1-Dichloroethene		<1.00	μg/L
Methylene chloride		<5.00	μg/L
MTBE		25.0	μg/L
trans-1,2-Dichloroethene		<1.00	μg/L
1,1-Dichloroethane		<1.00	μg/L
cis-1,2-Dichloroethene		<1.00	μg/L
2,2-Dichloropropane		<1.00	μg/L
1,2-Dichloroethane (EDC)		<1.00	μg/L
Chloroform		<1.00	μg/L
1,1,1-Trichloroethane		<1.00	μg/L
1,1-Dichloropropene		<1.00	μg/L
Benzene		<1.00	μg/L
Carbon Tetrachloride		<1.00	μg/L
1,2-Dichloropropane		<1.00	μg/L
Trichloroethene (TCE)		<1.00	μg/L
Dibromomethane (methylene bromide)		<1.00	μg/L
Bromodichloromethane		<1.00	μg/L
2-Chloroethyl vinyl ether		<5.00	μg/L
cis-1,3-Dichloropropene		<1.00	μg/L
trans-1,3-Dichloropropene		<1.00	μg/L
Toluene		<1.00	μg/L
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		<1.00	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L

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Sample 188682 continued ...

Param	Flag	Result	Units
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188683 - MW-45

Param	Flag	Result	Units
Bromochloromethane		<5.00	µg/L
Dichlorodifluoromethane		<5.00	µg/L
Chloromethane (methyl chloride)		<5.00	µg/L
Vinyl Chloride		<5.00	µg/L
Bromomethane (methyl bromide)		<25.0	µg/L
Chloroethane		<5.00	µg/L
Trichlorofluoromethane		<5.00	µg/L
Acetone		57.8	µg/L
Iodomethane (methyl iodide)		<25.0	µg/L
Carbon Disulfide		<5.00	µg/L
Acrylonitrile		<5.00	µg/L
2-Butanone (MEK)		<25.0	µg/L
4-methyl-2-pentanone (MIBK)		<25.0	µg/L
2-hexanone		<25.0	µg/L
trans 1,4-Dichloro-2-butene		<50.0	µg/L
1,1-Dichloroethene		<5.00	µg/L
Methylene chloride		<25.0	µg/L
MTBE		<5.00	µg/L
trans-1,2-Dichloroethene		<5.00	µg/L
1,1-Dichloroethane		<5.00	µg/L
cis-1,2-Dichloroethene		<5.00	µg/L
2,2-Dichloropropane		<5.00	µg/L
1,2-Dichloroethane (EDC)		<5.00	µg/L
Chloroform		<5.00	µg/L
1,1,1-Trichloroethane		<5.00	µg/L

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Sample 188683 continued ...

Param	Flag	Result	Units
1,1-Dichloropropene		<5.00	µg/L
Benzene		<5.00	µg/L
Carbon Tetrachloride		<5.00	µg/L
1,2-Dichloropropane		<5.00	µg/L
Trichloroethene (TCE)		<5.00	µg/L
Dibromomethane (methylene bromide)		<5.00	µg/L
Bromodichloromethane		<5.00	µg/L
2-Chloroethyl vinyl ether		<25.0	µg/L
cis-1,3-Dichloropropene		<5.00	µg/L
trans-1,3-Dichloropropene		<5.00	µg/L
Toluene		<5.00	µg/L
1,1,2-Trichloroethane		<5.00	µg/L
1,3-Dichloropropane		<5.00	µg/L
Dibromochloromethane		<5.00	µg/L
1,2-Dibromoethane (EDB)		<5.00	µg/L
Tetrachloroethene (PCE)		<5.00	µg/L
Chlorobenzene		<5.00	µg/L
1,1,1,2-Tetrachloroethane		<5.00	µg/L
Ethylbenzene		<5.00	µg/L
m,p-Xylene		<5.00	µg/L
Bromoform		<5.00	µg/L
Styrene		<5.00	µg/L
o-Xylene		12.8	µg/L
1,1,2,2-Tetrachloroethane		<5.00	µg/L
2-Chlorotoluene		<5.00	µg/L
1,2,3-Trichloropropane		<5.00	µg/L
Isopropylbenzene		9.75	µg/L
Bromobenzene		<5.00	µg/L
n-Propylbenzene		<5.00	µg/L
1,3,5-Trimethylbenzene		<5.00	µg/L
tert-Butylbenzene		<5.00	µg/L
1,2,4-Trimethylbenzene		<5.00	µg/L
1,4-Dichlorobenzene (para)		<5.00	µg/L
sec-Butylbenzene		<5.00	µg/L
1,3-Dichlorobenzene		<5.00	µg/L
p-Isopropyltoluene		<5.00	µg/L
4-Chlorotoluene		<5.00	µg/L
1,2-Dichlorobenzene (ortho)		<5.00	µg/L
n-Butylbenzene		<5.00	µg/L
1,2-Dibromo-3-chloropropane		<25.0	µg/L
1,2,3-Trichlorobenzene		<25.0	µg/L
1,2,4-Trichlorobenzene		<25.0	µg/L
Naphthalene		<25.0	µg/L
Hexachlorobutadiene		<25.0	µg/L

Sample: 188684 - KWB 13

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L

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Sample 188684 continued ...

Param	Flag	Result	Units
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		1.04	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		1.04	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		<1.00	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		<1.00	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L

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Sample 188684 continued ...

Param	Flag	Result	Units
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		<1.00	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L
n-Butylbenzene		<1.00	µg/L
1,2-Dibromo-3-chloropropane		<5.00	µg/L
1,2,3-Trichlorobenzene		<5.00	µg/L
1,2,4-Trichlorobenzene		<5.00	µg/L
Naphthalene		<5.00	µg/L
Hexachlorobutadiene		<5.00	µg/L

Sample: 188685 - MW-18

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		<1.00	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		3.93	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L

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Sample 188685 continued . . .

Param	Flag	Result	Units
1,1,2-Trichloroethane		<1.00	μg/L
1,3-Dichloropropane		<1.00	μg/L
Dibromochloromethane		<1.00	μg/L
1,2-Dibromoethane (EDB)		<1.00	μg/L
Tetrachloroethene (PCE)		<1.00	μg/L
Chlorobenzene		<1.00	μg/L
1,1,1,2-Tetrachloroethane		<1.00	μg/L
Ethylbenzene		4.24	μg/L
m,p-Xylene		<1.00	μg/L
Bromoform		<1.00	μg/L
Styrene		<1.00	μg/L
o-Xylene		<1.00	μg/L
1,1,2,2-Tetrachloroethane		<1.00	μg/L
2-Chlorotoluene		<1.00	μg/L
1,2,3-Trichloropropane		<1.00	μg/L
Isopropylbenzene		<1.00	μg/L
Bromobenzene		<1.00	μg/L
n-Propylbenzene		<1.00	μg/L
1,3,5-Trimethylbenzene		<1.00	μg/L
tert-Butylbenzene		<1.00	μg/L
1,2,4-Trimethylbenzene		<1.00	μg/L
1,4-Dichlorobenzene (para)		<1.00	μg/L
sec-Butylbenzene		<1.00	μg/L
1,3-Dichlorobenzene		<1.00	μg/L
p-Isopropyltoluene		<1.00	μg/L
4-Chlorotoluene		<1.00	μg/L
1,2-Dichlorobenzene (ortho)		<1.00	μg/L
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L

Summary Report

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: January 24, 2002

Order ID Number: A02011107

Project Number: Qtrly Offsite
Project Name: N/A
Project Location: 501 E Main, Artesia,NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
188686	MW-28	Water	1/10/02	15:20	1/11/02
188687	MW-29	Water	1/10/02	15:00	1/11/02

0 This report consists of a total of 4 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 188686 - MW-28

Param	Flag	Result	Units
Bromochloromethane		<50.0	µg/L
Dichlorodifluoromethane		<50.0	µg/L
Chloromethane (methyl chloride)		<50.0	µg/L
Vinyl Chloride		<50.0	µg/L
Bromomethane (methyl bromide)		<250	µg/L
Chloroethane		<50.0	µg/L
Trichlorofluoromethane		<50.0	µg/L
Acetone		<500	µg/L
Iodomethane (methyl iodide)		<250	µg/L
Carbon Disulfide		112	µg/L
Acrylonitrile		<50.0	µg/L
2-Butanone (MEK)		<250	µg/L
4-methyl-2-pentanone (MIBK)		<250	µg/L
2-hexanone		<250	µg/L
trans 1,4-Dichloro-2-butene		<500	µg/L
1,1-Dichloroethene		<50.0	µg/L
Methylene chloride		<250	µg/L
MTBE		5800	µg/L
trans-1,2-Dichloroethene		<50.0	µg/L
1,1-Dichloroethane		<50.0	µg/L
cis-1,2-Dichloroethene		<50.0	µg/L
2,2-Dichloropropane		<50.0	µg/L
1,2-Dichloroethane (EDC)		<50.0	µg/L
Chloroform		<50.0	µg/L
1,1,1-Trichloroethane		<50.0	µg/L
1,1-Dichloropropene		<50.0	µg/L
Benzene		570	µg/L
Carbon Tetrachloride		<50.0	µg/L
1,2-Dichloropropane		<50.0	µg/L
Trichloroethene (TCE)		<50.0	µg/L
Dibromomethane (methylene bromide)		<50.0	µg/L

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Sample 188686 continued ...

Param	Flag	Result	Units
Bromodichloromethane		<50.0	µg/L
2-Chloroethyl vinyl ether		<250	µg/L
cis-1,3-Dichloropropene		<50.0	µg/L
trans-1,3-Dichloropropene		<50.0	µg/L
Toluene		<50.0	µg/L
1,1,2-Trichloroethane		<50.0	µg/L
1,3-Dichloropropane		<50.0	µg/L
Dibromochloromethane		<50.0	µg/L
1,2-Dibromoethane (EDB)		<50.0	µg/L
Tetrachloroethene (PCE)		<50.0	µg/L
Chlorobenzene		<50.0	µg/L
1,1,1,2-Tetrachloroethane		<50.0	µg/L
Ethylbenzene		<50.0	µg/L
m,p-Xylene		<50.0	µg/L
Bromoform		<50.0	µg/L
Styrene		<50.0	µg/L
o-Xylene		<50.0	µg/L
1,1,2,2-Tetrachloroethane		<50.0	µg/L
2-Chlorotoluene		<50.0	µg/L
1,2,3-Trichloropropane		<50.0	µg/L
Isopropylbenzene		61.1	µg/L
Bromobenzene		<50.0	µg/L
n-Propylbenzene		86.3	µg/L
1,3,5-Trimethylbenzene		<50.0	µg/L
tert-Butylbenzene		<50.0	µg/L
1,2,4-Trimethylbenzene		<50.0	µg/L
1,4-Dichlorobenzene (para)		<50.0	µg/L
sec-Butylbenzene		<50.0	µg/L
1,3-Dichlorobenzene		<50.0	µg/L
p-Isopropyltoluene		<50.0	µg/L
4-Chlorotoluene		<50.0	µg/L
1,2-Dichlorobenzene (ortho)		<50.0	µg/L
n-Butylbenzene		<50.0	µg/L
1,2-Dibromo-3-chloropropane		<250	µg/L
1,2,3-Trichlorobenzene		<250	µg/L
1,2,4-Trichlorobenzene		<250	µg/L
Naphthalene		<250	µg/L
Hexachlorobutadiene		<250	µg/L

Sample: 188687 - MW-29

Param	Flag	Result	Units
Bromochloromethane		<1.00	µg/L
Dichlorodifluoromethane		<1.00	µg/L
Chloromethane (methyl chloride)		<1.00	µg/L
Vinyl Chloride		<1.00	µg/L
Bromomethane (methyl bromide)		<5.00	µg/L
Chloroethane		<1.00	µg/L
Trichlorofluoromethane		<1.00	µg/L
Acetone		<10.0	µg/L
Iodomethane (methyl iodide)		<5.00	µg/L
Carbon Disulfide		<1.00	µg/L

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Sample 188687 continued ...

Param	Flag	Result	Units
Acrylonitrile		<1.00	µg/L
2-Butanone (MEK)		<5.00	µg/L
4-methyl-2-pentanone (MIBK)		<5.00	µg/L
2-hexanone		<5.00	µg/L
trans 1,4-Dichloro-2-butene		<10.0	µg/L
1,1-Dichloroethene		<1.00	µg/L
Methylene chloride		<5.00	µg/L
MTBE		1.73	µg/L
trans-1,2-Dichloroethene		<1.00	µg/L
1,1-Dichloroethane		<1.00	µg/L
cis-1,2-Dichloroethene		<1.00	µg/L
2,2-Dichloropropane		<1.00	µg/L
1,2-Dichloroethane (EDC)		<1.00	µg/L
Chloroform		<1.00	µg/L
1,1,1-Trichloroethane		<1.00	µg/L
1,1-Dichloropropene		<1.00	µg/L
Benzene		<1.00	µg/L
Carbon Tetrachloride		<1.00	µg/L
1,2-Dichloropropane		<1.00	µg/L
Trichloroethene (TCE)		<1.00	µg/L
Dibromomethane (methylene bromide)		<1.00	µg/L
Bromodichloromethane		<1.00	µg/L
2-Chloroethyl vinyl ether		<5.00	µg/L
cis-1,3-Dichloropropene		<1.00	µg/L
trans-1,3-Dichloropropene		<1.00	µg/L
Toluene		<1.00	µg/L
1,1,2-Trichloroethane		<1.00	µg/L
1,3-Dichloropropane		<1.00	µg/L
Dibromochloromethane		<1.00	µg/L
1,2-Dibromoethane (EDB)		<1.00	µg/L
Tetrachloroethene (PCE)		<1.00	µg/L
Chlorobenzene		<1.00	µg/L
1,1,1,2-Tetrachloroethane		<1.00	µg/L
Ethylbenzene		<1.00	µg/L
m,p-Xylene		<1.00	µg/L
Bromoform		<1.00	µg/L
Styrene		<1.00	µg/L
o-Xylene		<1.00	µg/L
1,1,2,2-Tetrachloroethane		<1.00	µg/L
2-Chlorotoluene		<1.00	µg/L
1,2,3-Trichloropropane		<1.00	µg/L
Isopropylbenzene		20.6	µg/L
Bromobenzene		<1.00	µg/L
n-Propylbenzene		<1.00	µg/L
1,3,5-Trimethylbenzene		<1.00	µg/L
tert-Butylbenzene		1.06	µg/L
1,2,4-Trimethylbenzene		<1.00	µg/L
1,4-Dichlorobenzene (para)		<1.00	µg/L
sec-Butylbenzene		10.3	µg/L
1,3-Dichlorobenzene		<1.00	µg/L
p-Isopropyltoluene		<1.00	µg/L
4-Chlorotoluene		<1.00	µg/L
1,2-Dichlorobenzene (ortho)		<1.00	µg/L

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Sample 188687 continued ...

Param	Flag	Result	Units
n-Butylbenzene		<1.00	μg/L
1,2-Dibromo-3-chloropropane		<5.00	μg/L
1,2,3-Trichlorobenzene		<5.00	μg/L
1,2,4-Trichlorobenzene		<5.00	μg/L
Naphthalene		<5.00	μg/L
Hexachlorobutadiene		<5.00	μg/L