AP - 001

ANNUAL MONITORING REPORT

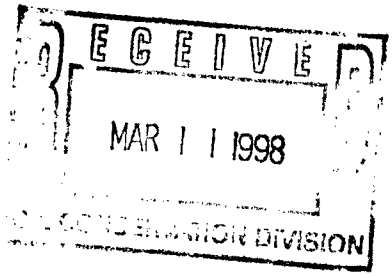
YEAR(S):
1997

BDM International, Inc.
6001 Indian School Rd., NE
Albuquerque, NM 87110
(505) 998-8100

Direct Dial Number:
(505) 998-8387

BDM/ABQ-MWS-EN019-98

March 10, 1998



Mr. Bill Olsen
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

RE: 1997 ANNUAL REPORT OF GROUNDWATER MONITORING AT THE BRICKLAND REFINERY SITE, SUNLAND PARK, NEW MEXICO

Dear Bill:

BDM International, Inc. (BDM), on behalf of Huntsman Corporation (Huntsman), formerly Rexene Corporation, is pleased to submit the Annual Groundwater Monitoring Report for the Brickland Refinery Site, Sunland Park, New Mexico. This letter report summarizes the results of semi-annual groundwater monitoring conducted in June 1997 and January 1998. The second semi-annual sampling event, originally planned for December 1997, was postponed until January 1998 because severe weather conditions, including heavy snow and rain, impeded access to the site and increased the potential for sampling errors.

This annual report includes the following elements required by the approved Groundwater Monitoring Plan:

- A description of all monitoring activities that occurred during the year, with corresponding conclusions and recommendations.
- Summary tables of all past and present laboratory analytical results of groundwater and surface water sampling.
- Plots of concentrations versus time for contaminants of concern for monitoring point MW-6S.
- Copies of laboratory data sheets for the past year.
- Plots of water table elevation versus time for each groundwater monitor well where free-phase product is not detected.
- Groundwater surface contour maps for each semi-annual monitoring event based on groundwater elevations from the monitor wells.

The semi-annual monitoring includes the following items as required by the Groundwater Monitoring Plan as approved by NMOCD:

- Measure the depth to groundwater in all on-site monitor wells and five off-site monitor wells (MW-3S, MW-3D, MW-6S, MW-6D, and MW-9S). Water levels are not measured in well points because the well points were specifically designed to detect free-phase product at discrete depth and the screen intervals do not correlate with monitor well screens.

- Measure product thickness in all on-site monitor wells and five off-site monitor wells (MW-3S, MS-3D, MW6S, MW6D and MW-9S), as well as all on-site well points.

- Collect groundwater samples from monitor wells MW-3S, MW-3D, MW-6S, MW-6D, and MW-9S. In addition, collect two surface water samples from the Rio Grande: one from the upstream end of the site, and one from the downstream end of the site near MW-6S. Samples collected in June were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by Method 8020, polyaromatic hydrocarbons (PAHs) by Method 610, and for priority pollutant metals. Samples collected in December were analyzed only for BTEX.

Semi-annual sampling was conducted by BDM in June 1997 and January 1998 according to the work scope previously cited. The sample containers for the upstream river sample and monitor well MW-3S were broken by the laboratory upon receipt. Therefore, those two locations were resampled in July 1997.

Results/Conclusions

June 1997 groundwater elevations beneath the site correlate very well with groundwater elevations in June 1996 (Table 1). Groundwater elevations in January 1998 were approximately 2 feet lower than in June 1997 and correlate well with historical December groundwater elevations (Figure 1). Groundwater continues to flow generally south at variable directions (Figures 2 and 3). The hydraulic gradient beneath the site is very flat and completely reverses locally in the southern portion. The hydraulic gradient in June was approximately 0.0015 feet per foot and, in general, groundwater tended to flow parallel to the Rio Grande or flowed from the Rio Grande towards the site. The hydraulic gradient in January was approximately 0.0008 feet per foot and, in general, groundwater tended to flow from the site towards the Rio Grande. Groundwater conditions, in general, remain unchanged from conditions described in detail in the Final Site Investigation Report.

In June 1997 and January 1998, 2.01 and 2.26 feet of free-phase product were measured in monitor well MW-10, respectively (Table 2). Monitor well MW-4 contained 0.14 feet of product in June, however, no product was measured in January. Well point WP-27D contained 0.44 and 1.18 feet of free-phase product in June and January, respectively. Well point WP-26S contained 1.29 feet of product in June but did not have measurable product in January, although a tar-like substance was observed on the instrument probe after attempting the measurement. Well points WP-15, WP-17, WP-21 and WP-37 contained product ranging in thickness from 0.12 to 2.0 feet in June. No well points, with the exception of WP-27D, contained measurable product in January. All other monitor wells and well points either contained no product, were dry, or had a trace of suspected hydrocarbon (Table 2).

The results of the June 1997 and January 1998 monitoring events correlate well with previous sampling events. BTEX was not detected in monitor wells MW-3S, MW-3D, MW-6D, MW-9S, nor in upstream or downstream river samples in the June and January events. MW-6S contained 130 micrograms per liter (µg/L) benzene and 15 µg/L ethylbenzene in June 1997, and 14 µg/L benzene in January 1998 (Table 3 and Figure 4).

No PAHs were detected in any of the monitor wells or river samples in June (Table 4).

All metals analyses in June were either non-detect or below New Mexico Water Quality Control Commission (NMWQCC) standards (Table 5).

Recommendations

(1) Well points WP-22, -23 and -25 are damaged and therefore cannot be monitored.

(2) The following well points have never contained measurable or even trace thicknesses of product: WP-2, -3, -4, -5, -7, -8, -12, -13, -16, -20, -24, -28, -30, -31, -32, -35, and -36.

(3) The following well points have never contained more than a trace of suspected hydrocarbon: WP-6, -18, -29, -33, and -34.

It is recommended and requested that these well points, as listed in (1), (2) and (3) above, be deleted from the monitoring plan and ultimately removed and/or plugged. The remaining well points should be maintained for semi-annual monitoring.

The next groundwater monitoring event is scheduled for June 1998.

Sincerely,

Michael W. Selke, RG
Senior Program Manager

3031/FANNL97B.RPT

Enclosure

cc: Reggie Baker, Huntsman
Todd Carver, Huntsman
NMOCD, Artesia Office
IBWC, El Paso
Project File

Index

Table 1
Brickland Refinery
Monitor Well Groundwater Elevations

Well ID	Jul. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Jun. 95	Sept. 95	Jun. 96	Dec. 96	Jun. 97	Jan. 98
MW-1	3725.78	3724.30	3725.27	3726.54	3725.37	3724.35	NM	3726.66	NM	3725.72	3724.03	3726.31	3724.13
MW-2	NM	NM	3726.39	3726.54	3725.89	3723.97	NM	3726.81	NM	3726.56	3724.67	3726.72	3724.77
MW-3S	3725.29	3723.27	3725.20	3725.87	3724.50	3723.44	3725.35	3725.68	3724.98	3725.08	3723.10	3724.54*	3723.20
MW-3D	3725.22	3723.30	3725.10	3725.78	3724.42	3723.35	3725.26	3725.75	3724.97	3725.00	3723.01	3725.46	3721.05
MW-4	3725.21	3723.59	3725.36	3725.56	3724.68	3723.64	3725.56	3725.66	3725.40	3725.25	3723.31	3724.68	3723.44
MW-5	3725.11	3723.59	3725.30	3725.88	3724.70	3723.65	3725.40	3725.86	3725.39	3725.37	3722.93	3724.17	3723.48
MW-6S	3725.08	3723.78	3724.85	3725.55	3724.20	3723.03	3725.05	3725.53	3724.63	3724.83	3722.80	3725.29	3722.90
MW-6D	3725.00	3723.75	3724.82	3725.57	3724.22	3723.00	3725.02	3725.48	3724.57	3724.75	3722.72	3725.25	3720.81
MW-7	3725.16	3723.72	3725.16	3725.89	3724.46	3723.16	3725.36	3725.32	3725.23	NM	3723.16	3725.12	3723.26
MW-8	3725.10	3723.42	3725.12	3725.77	3724.49	3723.45	3725.42	3725.74	3724.33	3725.29	3723.13	3724.21	3722.31
MW-9S	3724.84	3723.52	3724.56	3725.29	3723.91	3722.81	3724.81	3725.21	3725.52	3724.49	3722.51	3724.84	3722.62
MW-10	P	P	P	P	P	P	P	P	P	P	P	3723.01	3720.98
MW-11	3724.91	3722.90	3725.10	3725.75	P	3723.40	3725.35	3725.86	3724.98	3725.20	3723.10	3724.39	3723.15
MW-12	3726.09	3724.91	3726.45	3727.05	3725.70	3723.65	NM	3727.15	3726.39	NM	3724.37	3726.34	NM
MW-13	3725.22	NM	NM	3725.82	3724.71	3724.44	NM	3726.05	NM	3725.30	3723.27	3725.56	3723.55
MW-14	NM	NM	NM	3726.03	3724.61	3723.58	3725.56	3726.01	3725.31	NM	3723.25	3725.07	3723.35
MW-15	NM	NM	NM	3725.62	3724.28	3723.19	3724.97	3725.58	3724.87	NM	3721.90	3723.52	3722.99
MW-16	NM	NM	NM	3725.43	3724.06	3722.93	3724.88	3725.44	3724.54	3724.65	3722.63	3723.59	3722.75
MW-17	NM	NM	NM	3725.90	3724.46	3723.36	3725.38	3726.82	3726.05	NM	3723.07	3724.95	D

Notes: NM = Not measured.
P = Product observed.
* Resampled in July.
D = Well Dry.

Table 2
Brickland Refinery
Product Thickness (feet)

Well ID	Sept. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Dec. 95	Jun. 96	Dec. 96	Jul. 97	Jan. 98
MW-1	NM	NM	NP	NP	NP	NP	NM	NP	NP	NP	NP	NP
MW-2	NM	NM	NP	NP	NP	NP	NM	NP	NP	NP	NP	NP
MW-3S	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NM
MW-3D	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-4	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	0.14	NP
MW-5	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-6S	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NM
MW-6D	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NM
MW-7	NM	NM	NP	NP	NP	NP	NP	NP	NM	NP	NP	NP
MW-8	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-9S	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-10	5.42	3.58	NM	3.45	2.40	2.46	NM	2.29	2.3	2.14	2.01	2.26
MW-11	NM	NM	NP	NP	0.05	NM	NM	0.16	NP	Trace	Trace	Trace
MW-12	NM	NM	NP	NP	NP	NP	NM	NP	NM	NP	NP	NM
MW-13	NM	NM	NM	NP	NP	NP	NM	NP	NP	NP	NP	NP
MW-14	NM	NM	NM	NP	NP	NP	NP	NP	NM	NP	NP	NP
MW-15	NM	NM	NM	NP	NP	NP	NP	NP	NM	NP	NP	NP
MW-16	NM	NM	NM	NP	NP	NP	NP	NP	NP	NP	NP	NP
MW-17	NM	NM	NM	NP	NP	NP	NP	NP	NM	NP	NP	Dry
WP-1	NM	NM	NM	NP	NP	NP	NM	0.16	NM	Trace	NP	Dry
WP-2	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-3	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-4	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-5	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-6	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	Trace
WP-7	NM	NM	NM	NP	NP	NP	NM	NM	NM	NP	NP	NP
WP-8	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-9	0.01	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-10	NM	NM	NM	NP	0.20	Dry	NM	NP	NM	Dry	NP	Dry
WP-11	0.01	NM	NM	NP	Dry	Dry	NM	NM	NM	Dry	NP	Dry
WP-12	NM	NM	NM	NP	Dry	NM	NM	NP	NM	Dry	NP	Dry
WP-13	NM	NM	NM	NP	NP	NP	NM	NP	NM	Dry	NP	Dry

Table 2
Brickland Refinery
Product Thickness (feet)

Well ID	Sept. 93	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	Dec. 95	Jun. 96	Dec. 96	Jul. 97	Jan. 98
WP-14	NM	NM	NM	NP	Tar	NM	NM	0.14	NM	Tar	Tar	Tar
WP-15	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	0.20	Dry
WP-16	NM	NM	NM	NP	NM	NM	NM	NP	NM	Dry	Dry	Dry
WP-17	NM	NM	NM	NP	Dry	Dry	NM	NP	NM	Dry	0.12	Dry
WP-18	NM	NM	NM	NP	NP	NP	NM	NP	NM	Trace	Trace	Dry
WP-19	NM	0.01	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-20	NM	NM	NM	NP	NM	NP	NM	NP	NM	NP	NP	NP
WP-21	NM	NM	NM	NP	NP	NP	NM	NP	NM	Dry	0.06	Dry
WP-22	NM	NM	NM	NP	NP	NP	NM	NP	NM	NM	NM	NM
WP-23	NM	NM	NM	NP	NP	NP	NM	NP	NM	NM	NM	NM
WP-24	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-25	0.05	0.05	NM	0.22	NM	0.20	NM	1.56	NM	NM	NM	Trace
WP-26S	NM	0.12	NM	2.20	2.59	1.53	NM	NP	NM	NP	1.29	Tar
WP-26D	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-27S	NM	NM	NM	NP	NP	NP	NM	NM	NM	NP	NP	NP
WP-27D	NM	NM	NM	0.11	0.45	0.49	NM	NM	NM	0.48	0.44	1.18
WP-28	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	Dry
WP-29	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	Trace	NP
WP-30	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-31	NM	NM	NM	NP	NP	NP	NM	NP	NM	Dry	Dry	Dry
WP-32	NM	NM	NM	Dry	Dry	Dry	NM	Dry	NM	Dry	Dry	Dry
WP-33	NM	NM	NM	NP	NP	NP	NM	NP	NM	Trace	Trace	NP
WP-34	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-35	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-36	NM	NM	NM	NP	NP	NP	NM	NP	NM	NP	NP	NP
WP-37	NM	NM	NM	NP	NP	NP	NM	NP	NM	0.04	0.17	NP

Notes: NM - Not Measured
NP - No Product
Trace = Trace of free product was observed.

Table 3
Brickland Refinery
BTEX Concentrations in Monitoring Wells and River Surface Samples

MW-3S

Parameter	12/08/93	03/25/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MW-3D

Parameter	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND
Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND

MW-6S

Parameter	12/08/93	03/25/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	9/25/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	71	74	110	4.8	59	110	NS	180	330	50	130	14
Toluene	ND	ND	ND	2.8	ND	7	NS	120	160	ND	ND	ND
Ethyl Benzene	52	12	30	34	ND	32	NS	ND	ND	ND	15	ND
Xylenes	ND	7.6	88	16	ND	43	NS	30	90	ND	ND	ND

MW-6D

Parameter	12/08/93	03/23/94	07/12/94	09/28/94	12/13/94	03/28/95	06/21/95	9/25/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND,ND	ND	ND	ND	ND
Xylenes	ND	1.6	ND	ND	ND	ND	ND	ND,ND	ND	ND	ND	ND

MW-9S

Parameter	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND,ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND,ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND,ND
Xylenes	ND	ND	0.6	ND	ND	0.6	ND	ND	ND	ND	ND	ND,ND

River - Upstream

Parameter	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND
Toluene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND
Ethyl Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND
Xylenes	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND

River - Downstream

Parameter	12/08/93	03/25/94	07/12/94	09/27/94	12/13/94	03/28/95	06/21/95	09/26/95	6/21/96	12/23/96	6/26/97	1/8/98
Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND
Toluene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND
Ethyl Benzene	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND
Xylenes	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND

	WQCC Std.	Detection Limit
Benzene	10	0.5 µg/L
Toluene	750	0.1 µg/L
Ethyl Benzene	750	0.5 µg/L
Xylenes	620	0.5 µg/L

NA = Not available
ND = Not detected
NS = Not sampled
µg/L = Micrograms per liter

Table 4

Brickland Refinery

Total PAH Concentrations in Monitoring Wells and River Surface Samples From December 1993 through January 1998

Well ID	Dec. 93	Mar. 94	Jul. 94	Sept. 94	Dec. 94	Mar. 95	June 95	June 96	Dec. 96	July 97	Jan. 98
MW-3S	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
MW-3D	ND	ND	ND	ND	ND	ND	ND	ND	-	ND, ND	-
MW-6S	ND	ND	ND	ND	ND	ND	15, 10	ND	-	ND	-
MW-6D	ND	-	ND	ND	ND	ND	ND	ND, ND	-	ND	-
MW-9S	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-
Riv-Up	-	-	-	-	-	-	-	ND	-	ND	-
Riv-Down	-	-	-	-	-	-	-	ND	-	ND	-

Notes: - = Not sampled for PAH.

All Results in Micrograms per Liter (μg/L)

Table 5

Brickland Refinery

Monitoring Well and River Surface Samples Analytical Results from June 1996 Sampling Event

Well ID	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
NM WQCC Std.	5.0	0.1	1.0	0.0100	0.050	1.0	1.0	0.0020	0.2	0.05	0.05		10.0
Detection Limit	0.010	0.010	0.001	0.0005	0.005	0.005	0.003	0.0002	0.005	0.010	0.005	0.01	0.005
MW-3S	ND	0.020	ND	0.0021	0.023	ND	ND	ND	ND	0.050	ND	ND	ND
MW-3D	ND	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-6S	ND	0.020	ND	ND	ND	ND	0.003	ND	ND	0.020	ND	ND	ND
MW-6D	ND	ND	0.002	ND	0.031	ND	ND	ND	ND	**0.120**	**0.056**	ND	ND
MW-6D (Dupe)	0.010	0.020	0.003	0.0044	ND	ND	ND	ND	0.008	ND	0.007	0.014	ND
MW-9S	0.020	ND	ND	0.0007	ND	0.044	ND	ND	ND	**0.070**	ND	0.040	ND
River-Upstream	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	0.013
River-Downstream	ND	ND	ND	ND	0.008	ND	0.005	ND	ND	ND	ND	ND	0.006

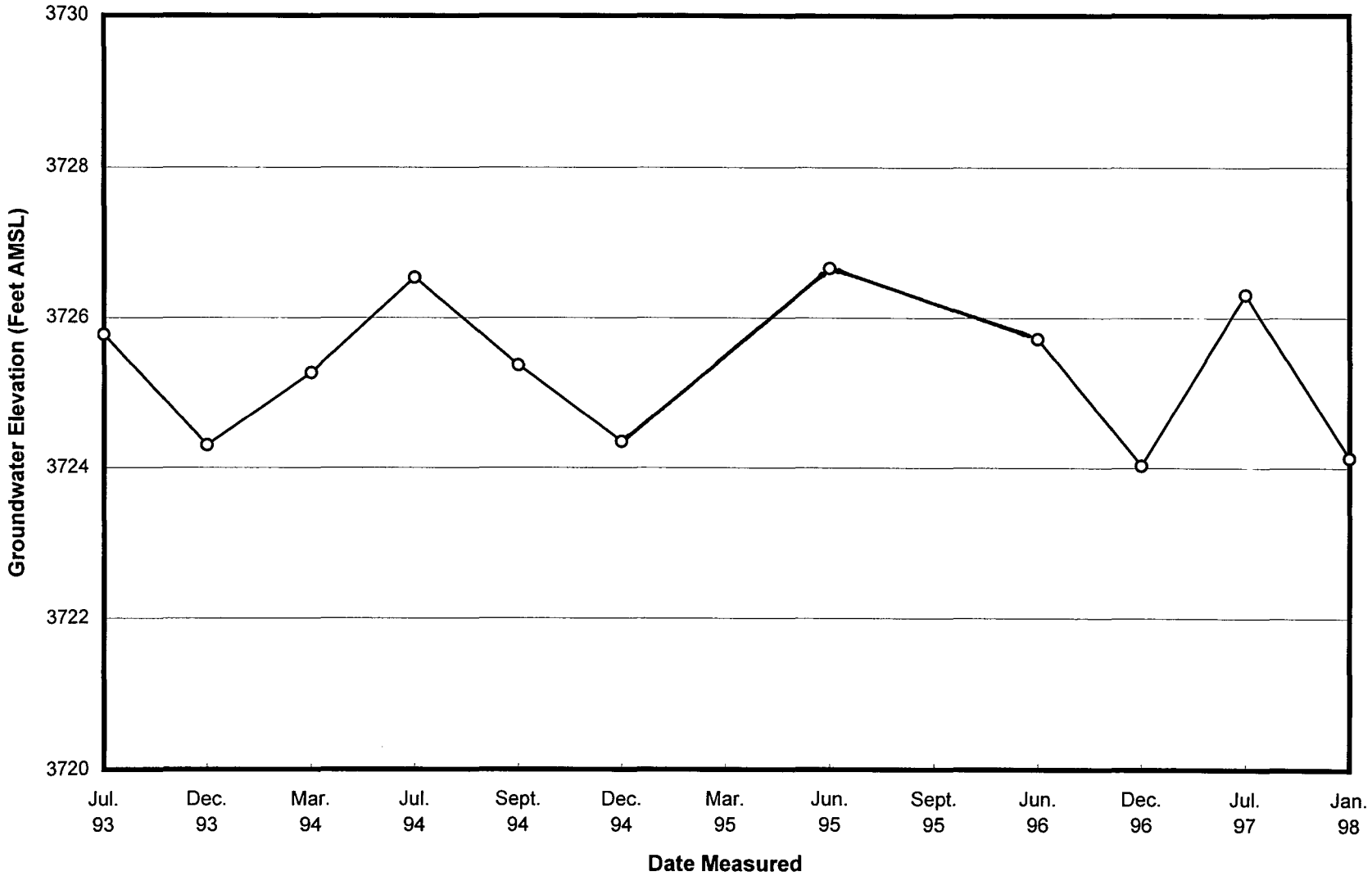
mg/L = Milligrams per liter

Monitoring Well and River Surface Samples Analytical Results from July 1997 Sampling Event

Well ID	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
NM WQCC Std.	5.0	0.1	1.0	0.0100	0.050	1.0	1.0	0.0020	0.2	0.05	0.05		10.0
Detection Limit	0.010	0.010	0.001	0.0005	0.005	0.005	0.003	0.0002	0.005	0.010	0.005	0.01	0.005
MW-3S	ND	0.010	ND	ND	ND	ND	ND	ND	ND	0.020	ND	ND	0.013
MW-3D	ND	0.010	ND	0.0019	ND	ND	ND	ND	0.007	ND	ND	ND	ND
MW-3D (Dupe)	0.010	0.020	ND	0.0024	ND	ND	ND	ND	0.016	ND	0.009	ND	0.006
MW-6S	0.010	0.070	ND	0.0015	ND	0.008	ND	ND	ND	0.020	ND	ND	0.008
MW-6D	0.010	0.010	ND	0.0020	ND	0.006	ND	ND	0.025	ND	ND	ND	ND
MW-9S	0.020	0.020	ND	ND	ND	ND	ND	ND	ND	0.030	ND	ND	ND
River-Upstream	ND	ND	ND	ND	ND	0.010	ND	ND	ND	0.010	ND	ND	0.009
River-Downstream	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

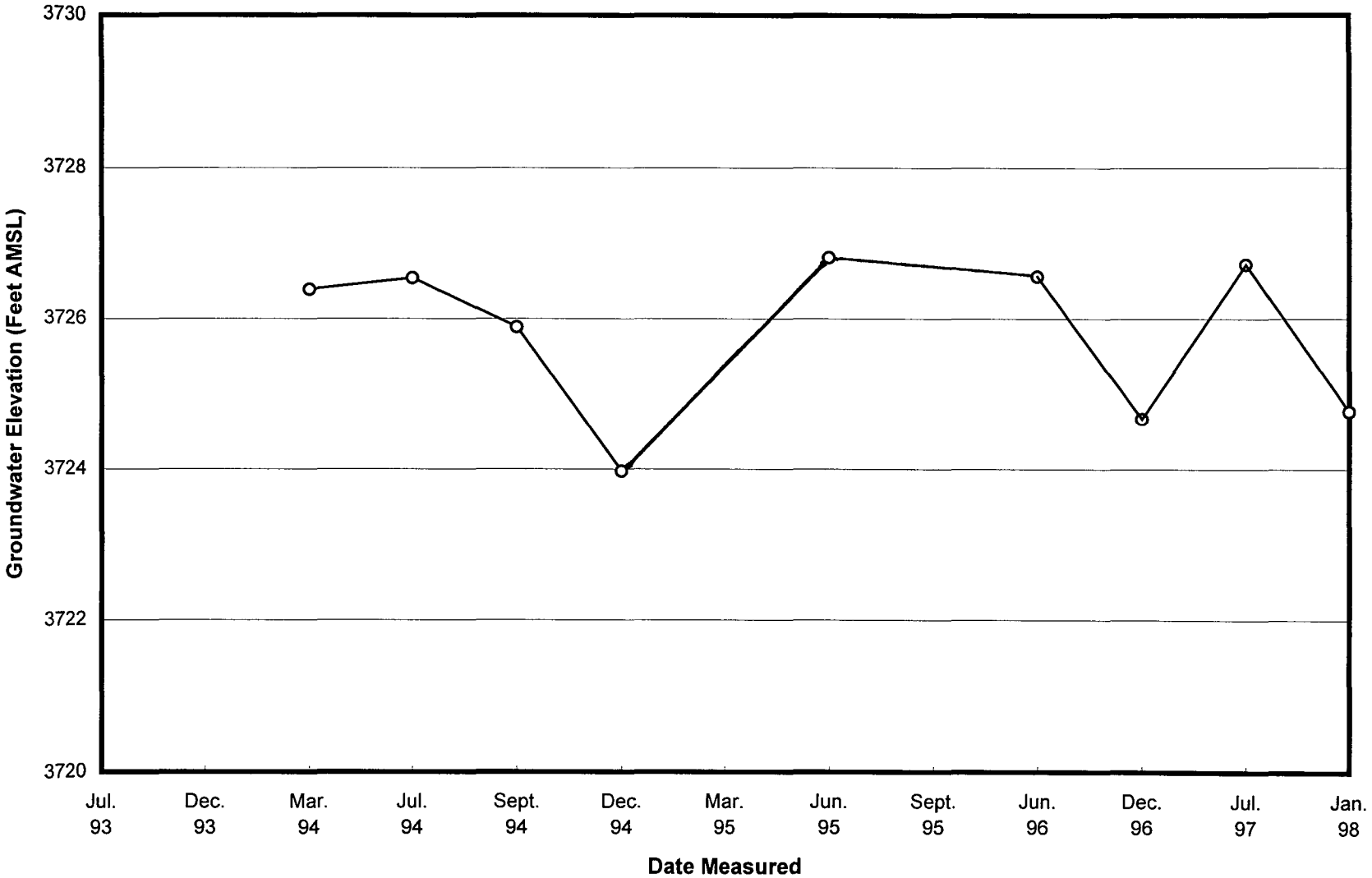
mg/L = Milligrams per liter

Figure 1
Brickland Refinery
MW-1 Groundwater Elevation Over Time



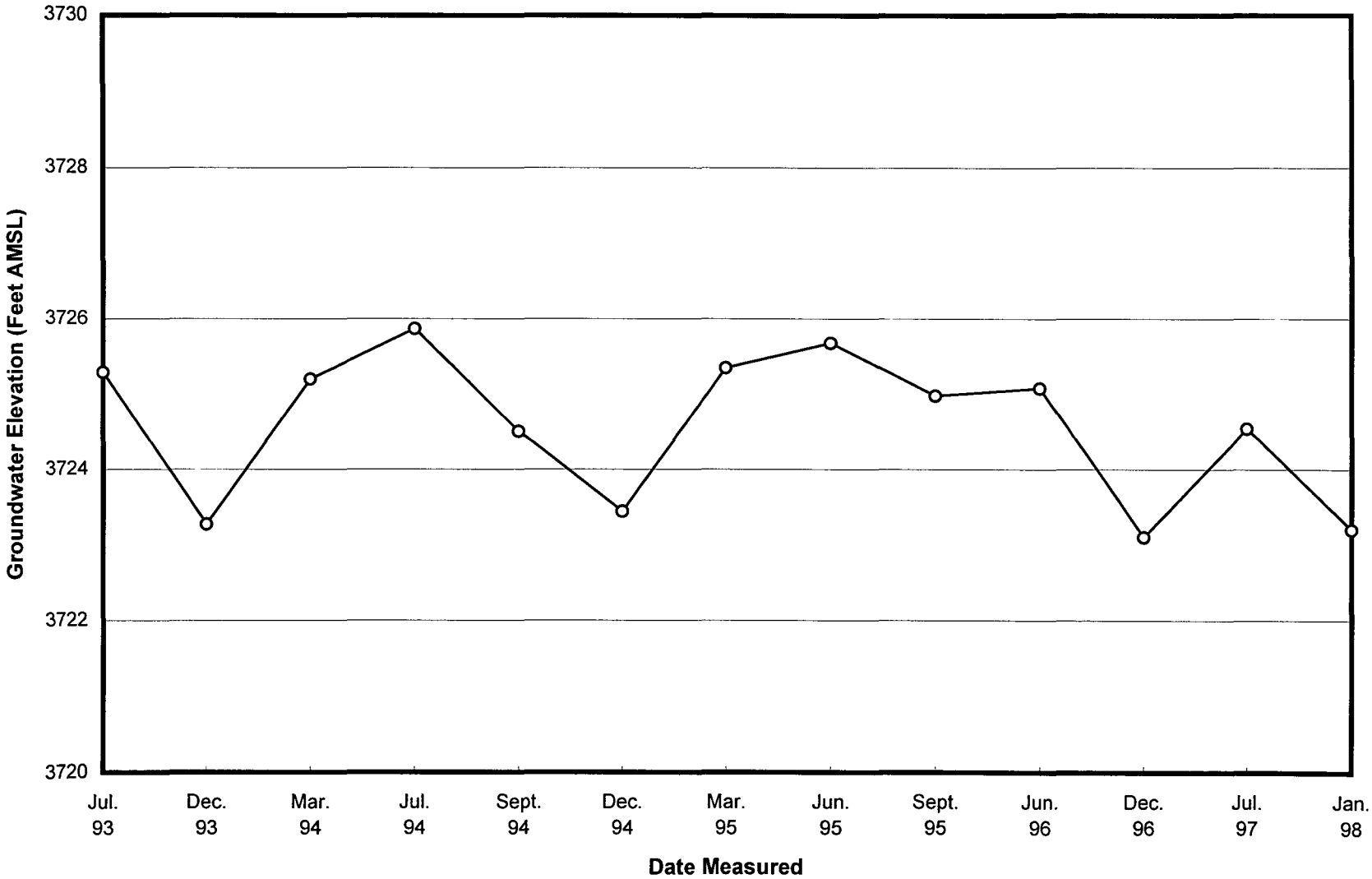
SEMIANN3.XLS:MW-1 WL

Figure 1 (Cont.)
Brickland Refinery
MW-2 Groundwater Elevation Over Time



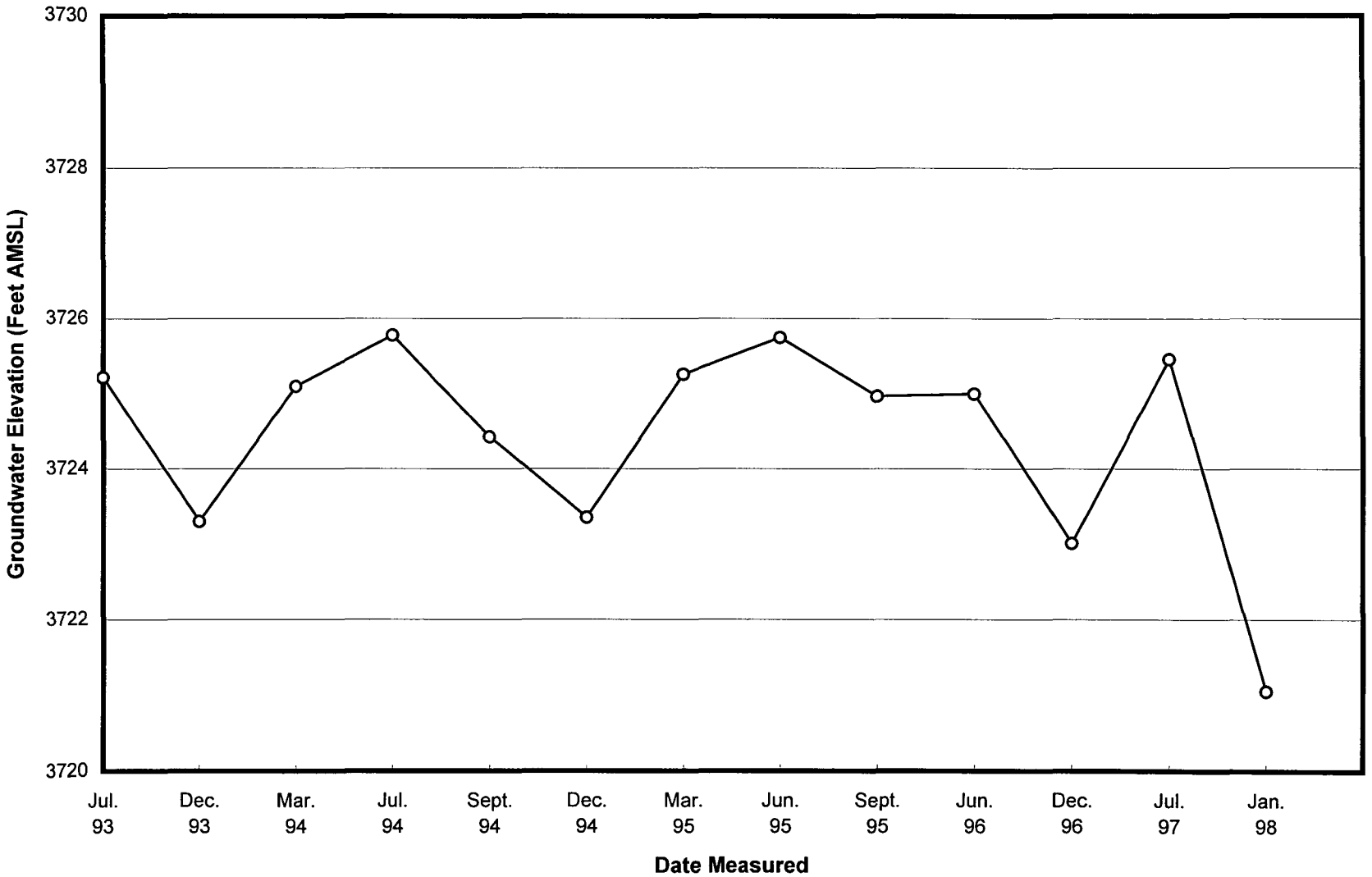
SEMIANN3.XLS:MW-2 WL

Figure 1 (Cont.)
Brickland Refinery
MW-3S Groundwater Elevation Over Time



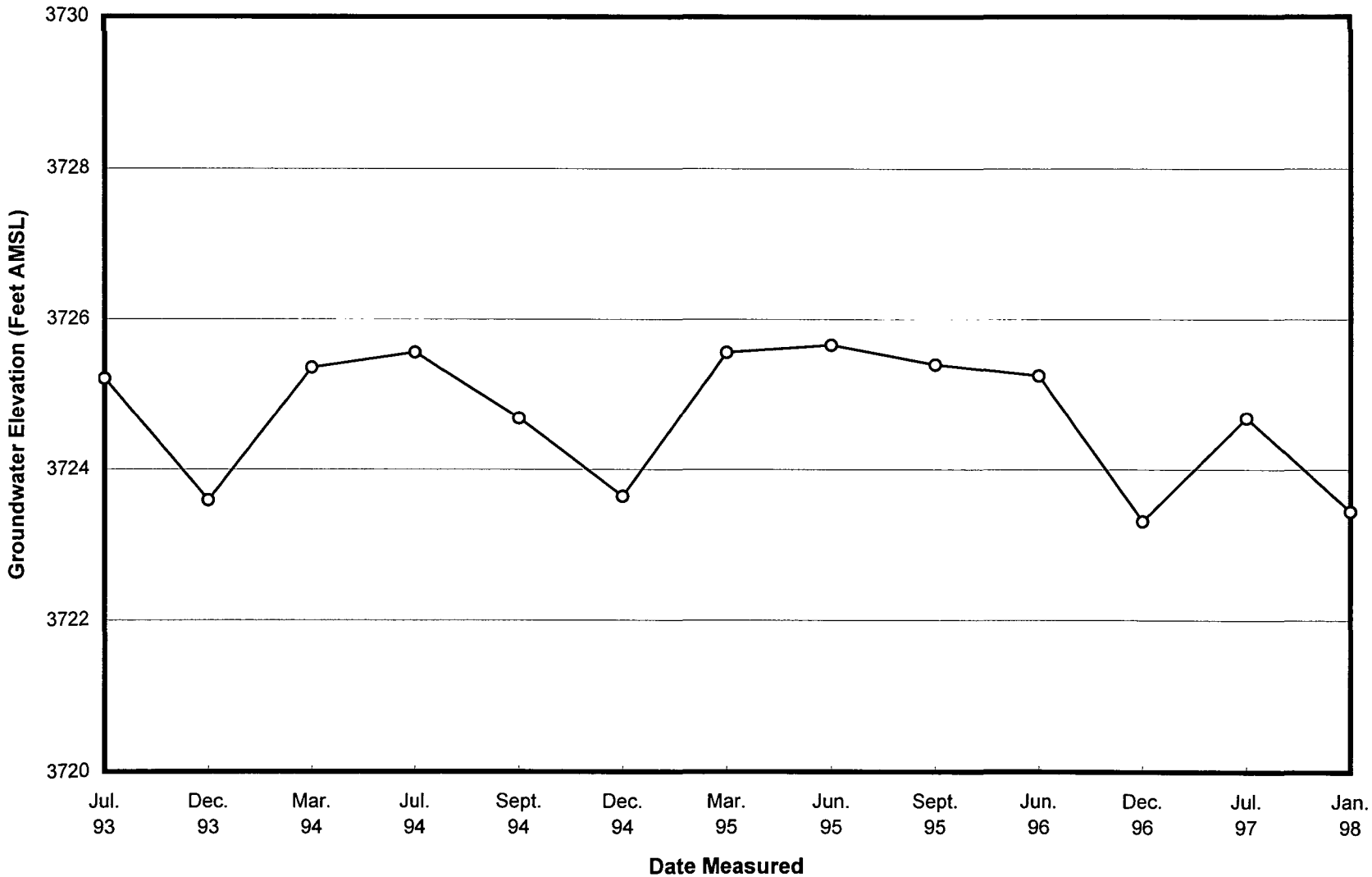
SEMIANN3.XLS:MW-3S WL

Figure 1 (Cont.)
Brickland Refinery
MW-3D Groundwater Elevation Over Time



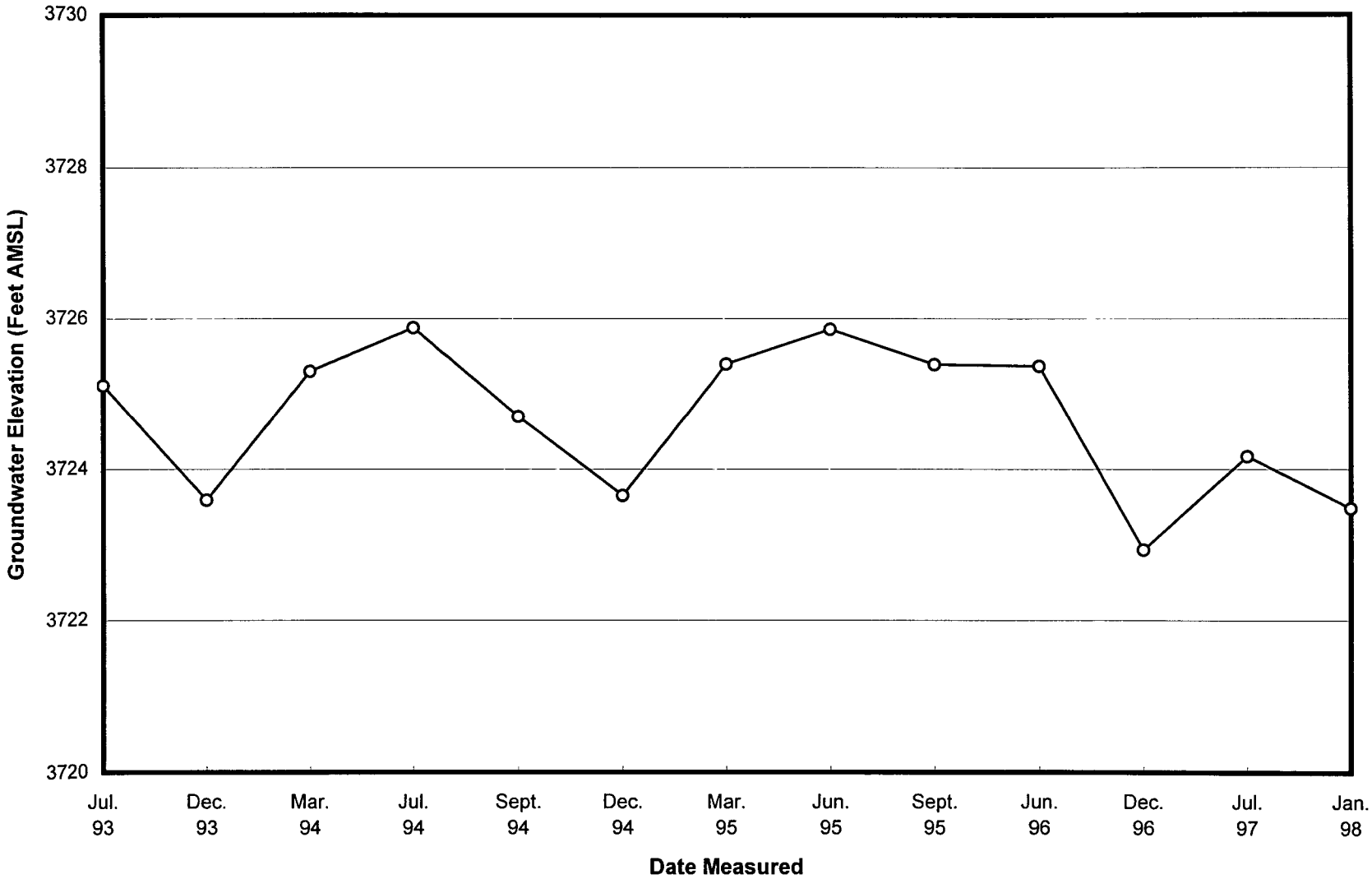
SEMIANN3.XLS:MW-3D WL

Figure 1 (Cont.)
Brickland Refinery
MW-4 Groundwater Elevation Over Time



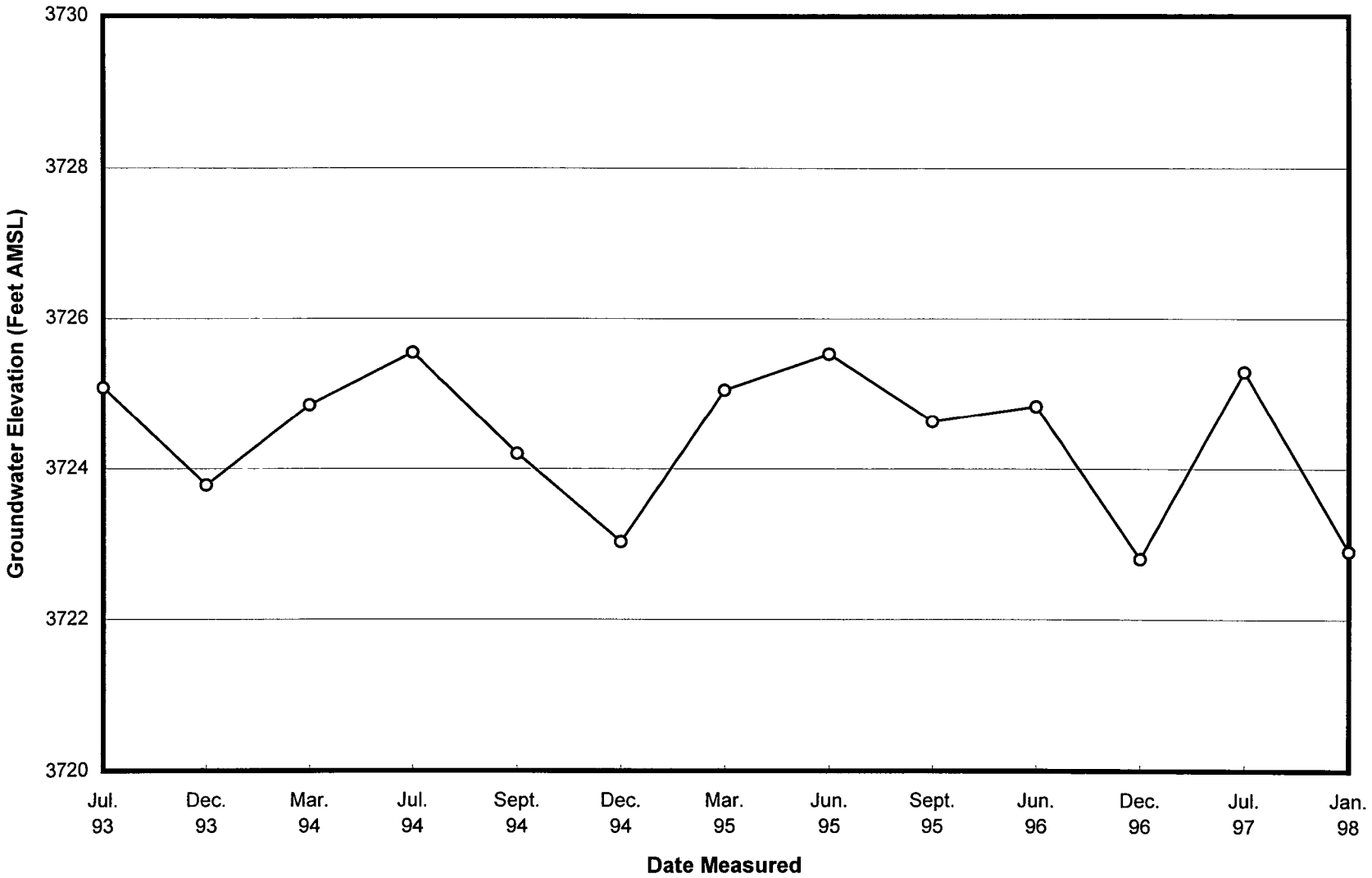
SEMIANN3.XLS:MW-4 WL

Figure 1 (Cont.)
Brickland Refinery
MW-5 Groundwater Elevation Over Time



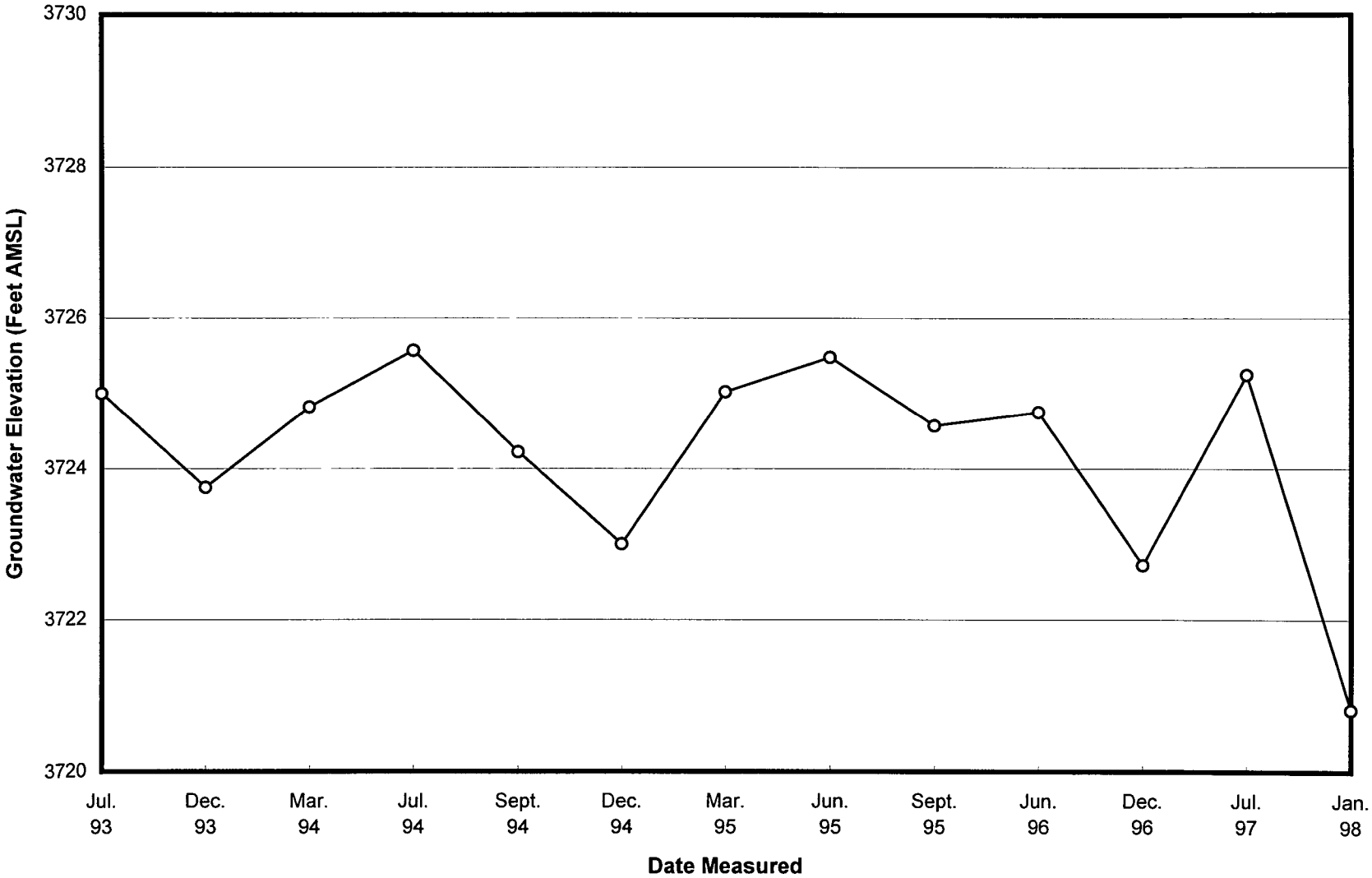
SEMIANN3.XLS:MW-5 WL

Figure 1 (Cont.)
Brickland Refinery
MW-6S Groundwater Elevation Over Time



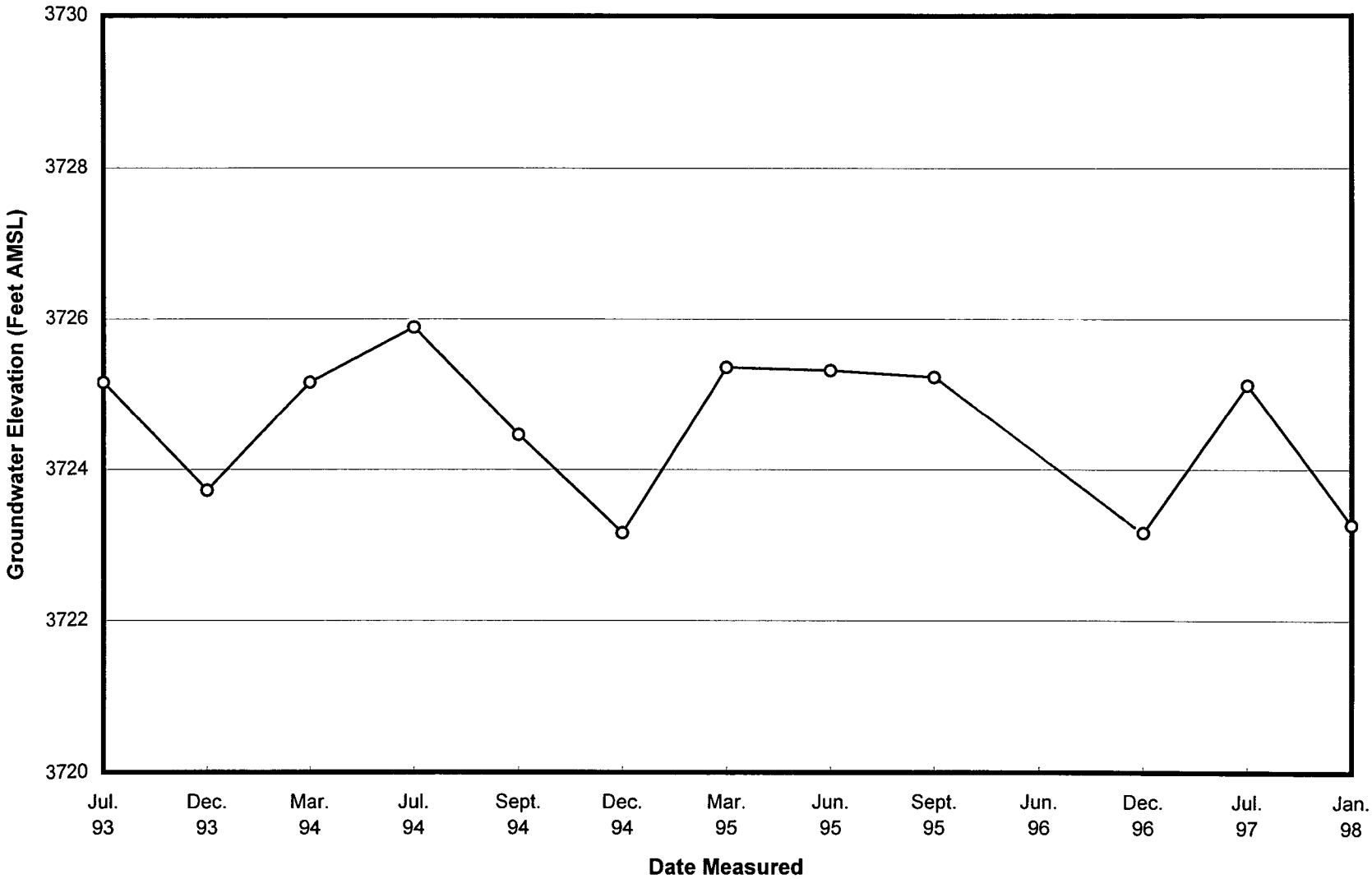
SEMIANN3.XLS:MW-6S WL

Figure 1 (Cont.)
Brickland Refinery
MW-6D Groundwater Elevation Over Time



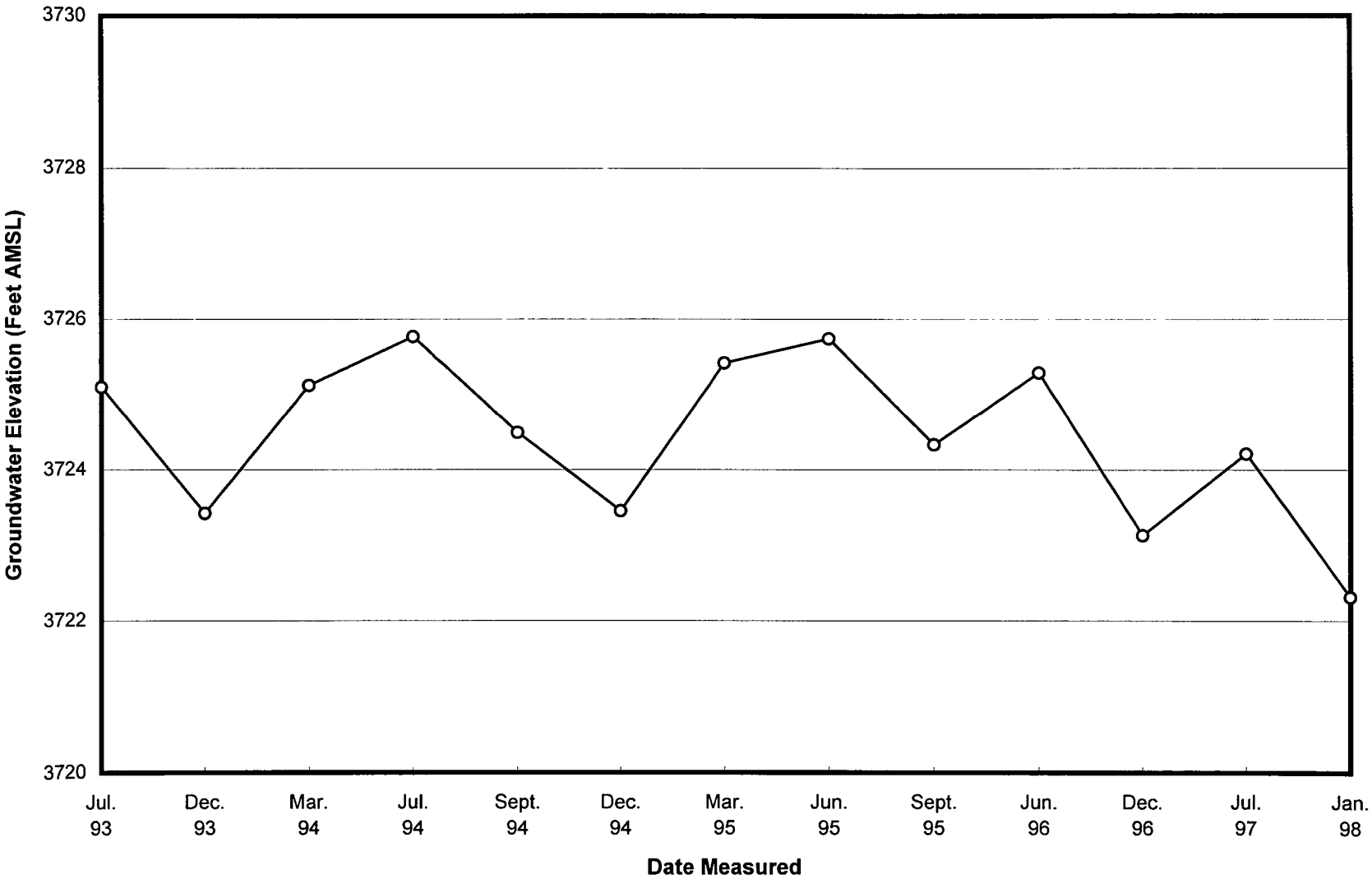
SEMIANN3.XLS:MW-6D WL

Figure 1 (Cont.)
Brickland Refinery
MW-7 Groundwater Elevation Over Time



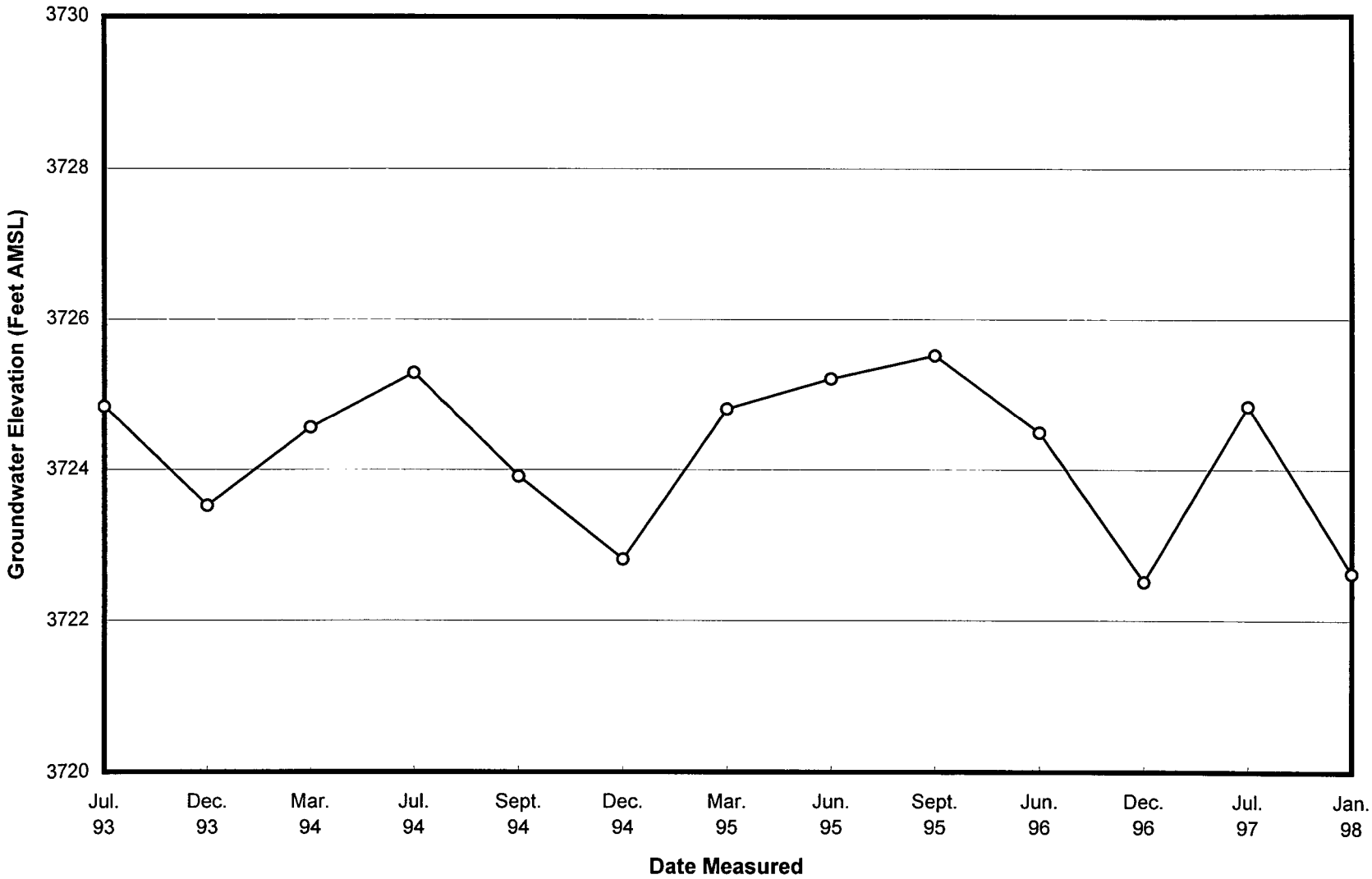
SEMIANN3.XLS:MW-7 WL

Figure 1 (Cont.)
Brickland Refinery
MW-8 Groundwater Elevation Over Time



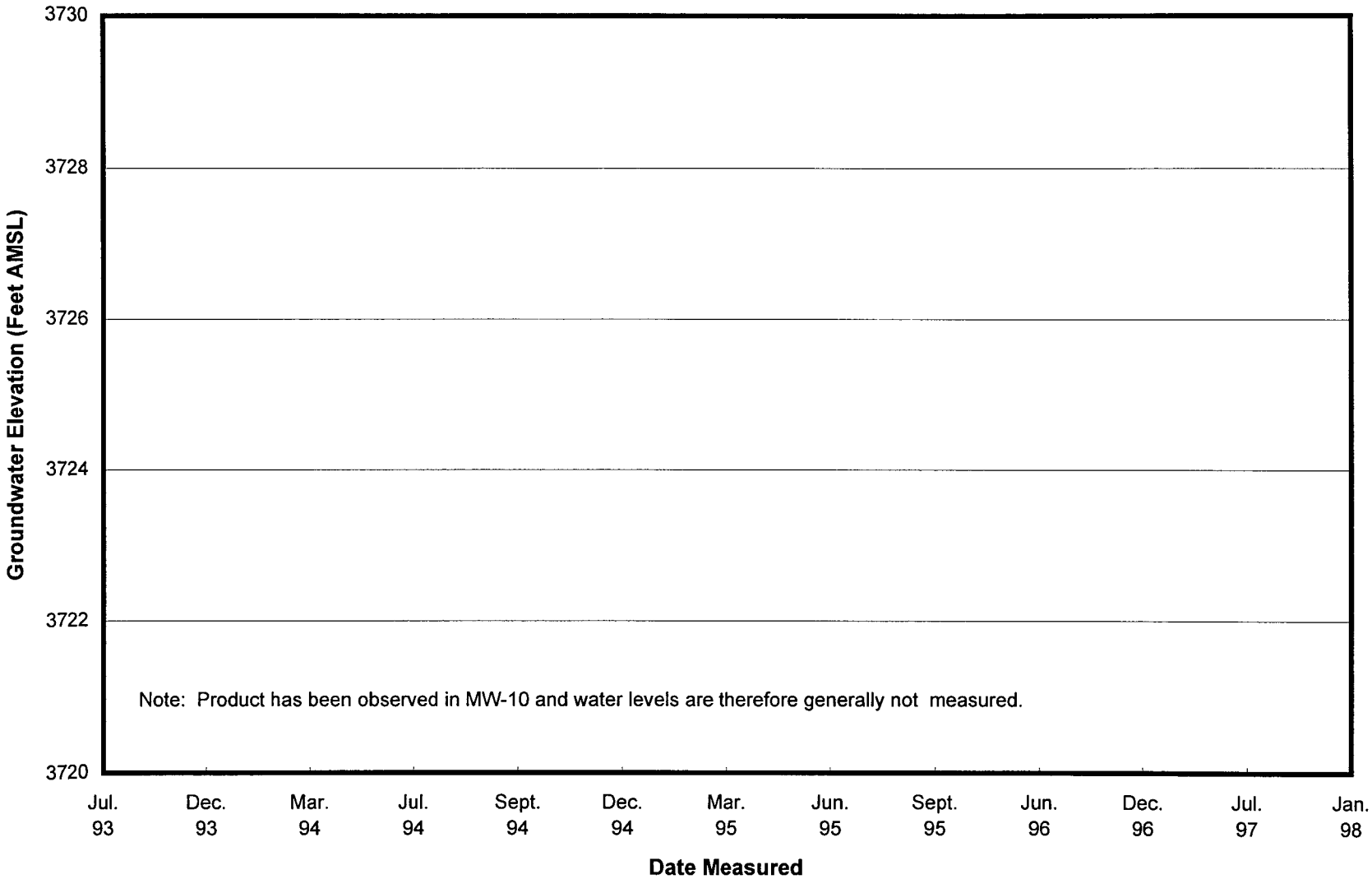
SEMIANN3.XLS:MW-8 WL

Figure 1 (Cont.)
Brickland Refinery
MW-9S Groundwater Elevation Over Time



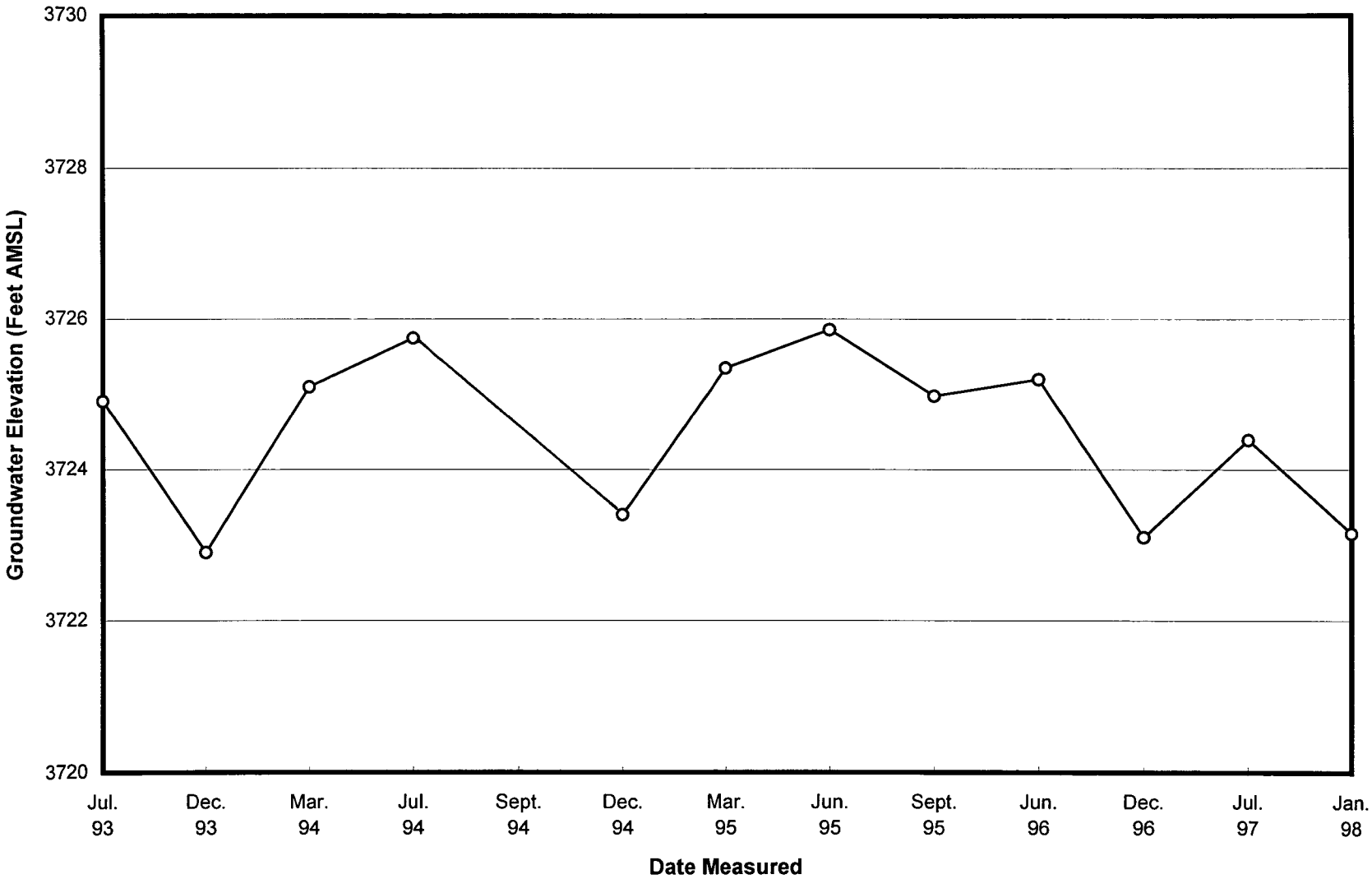
SEMIANN3.XLS:MW-9S WL

Figure 1 (Cont.)
Brickland Refinery
MW-10 Groundwater Elevation Over Time



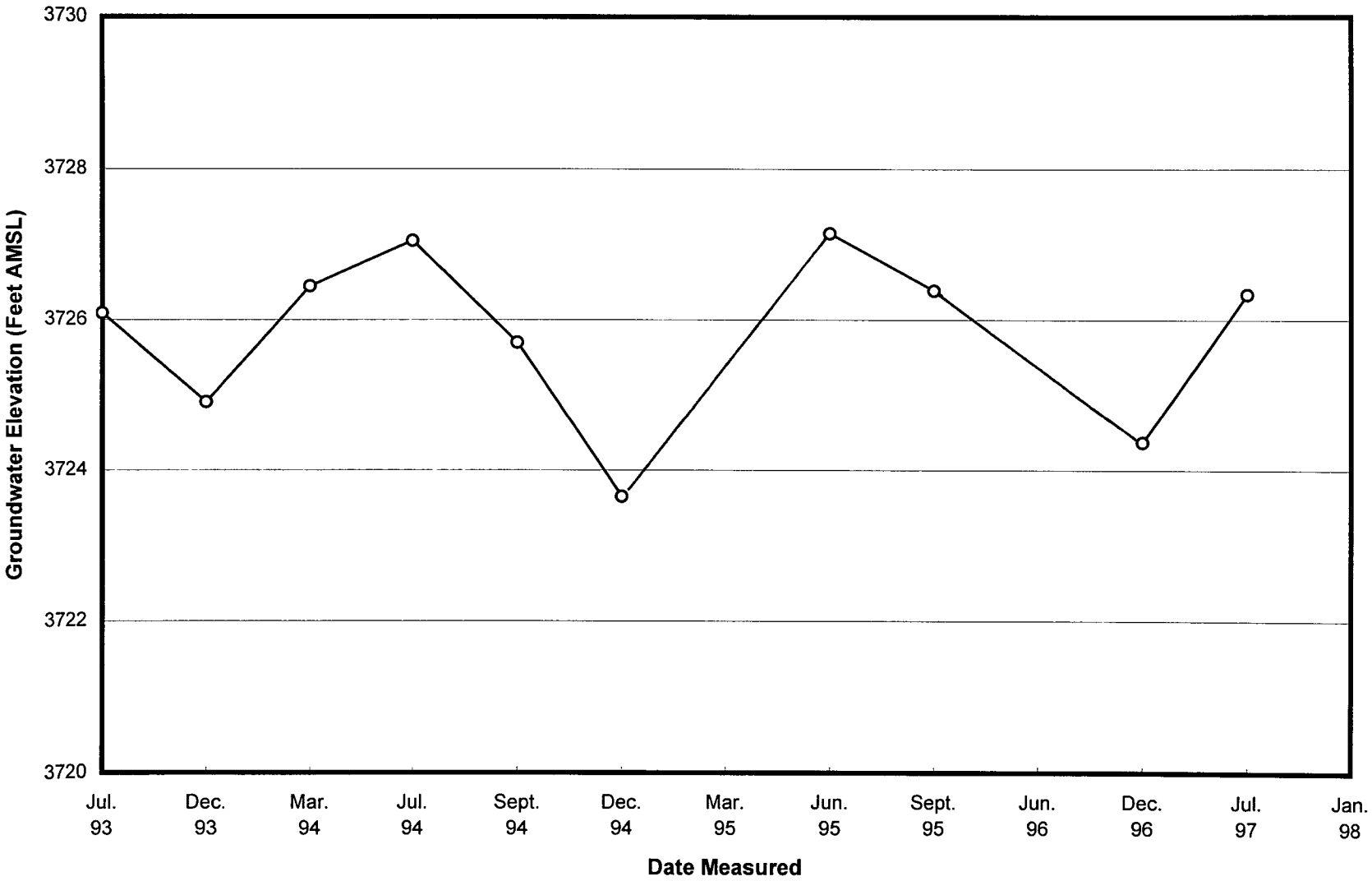
SEMIANN3.XLS:MW-10

Figure 1 (Cont.)
Brickland Refinery
MW-11 Groundwater Elevation Over Time



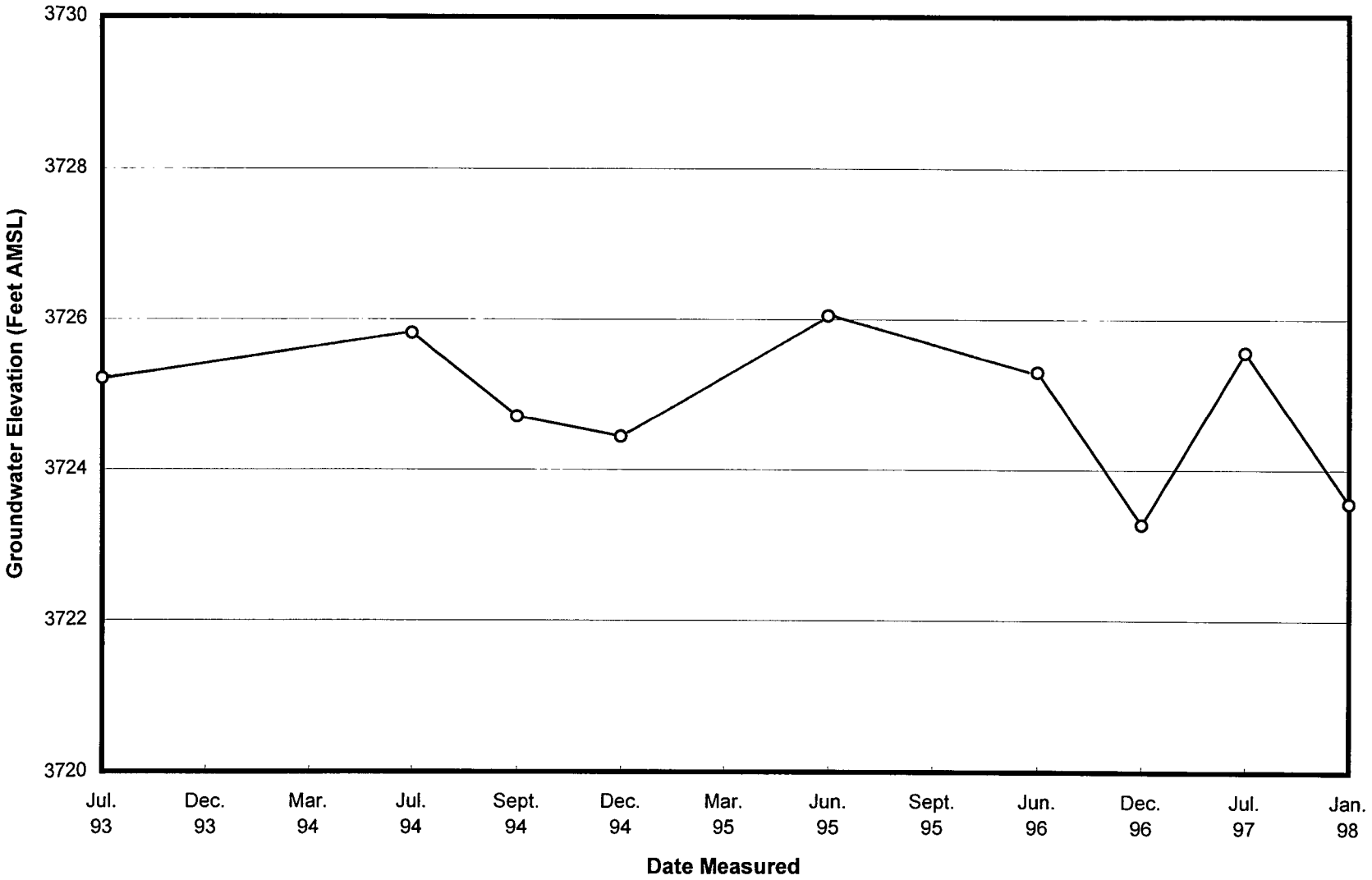
SEMIANN3.XLS:MW-11 WL

Figure 1 (Cont.)
Brickland Refinery
MW-12 Groundwater Elevation Over Time



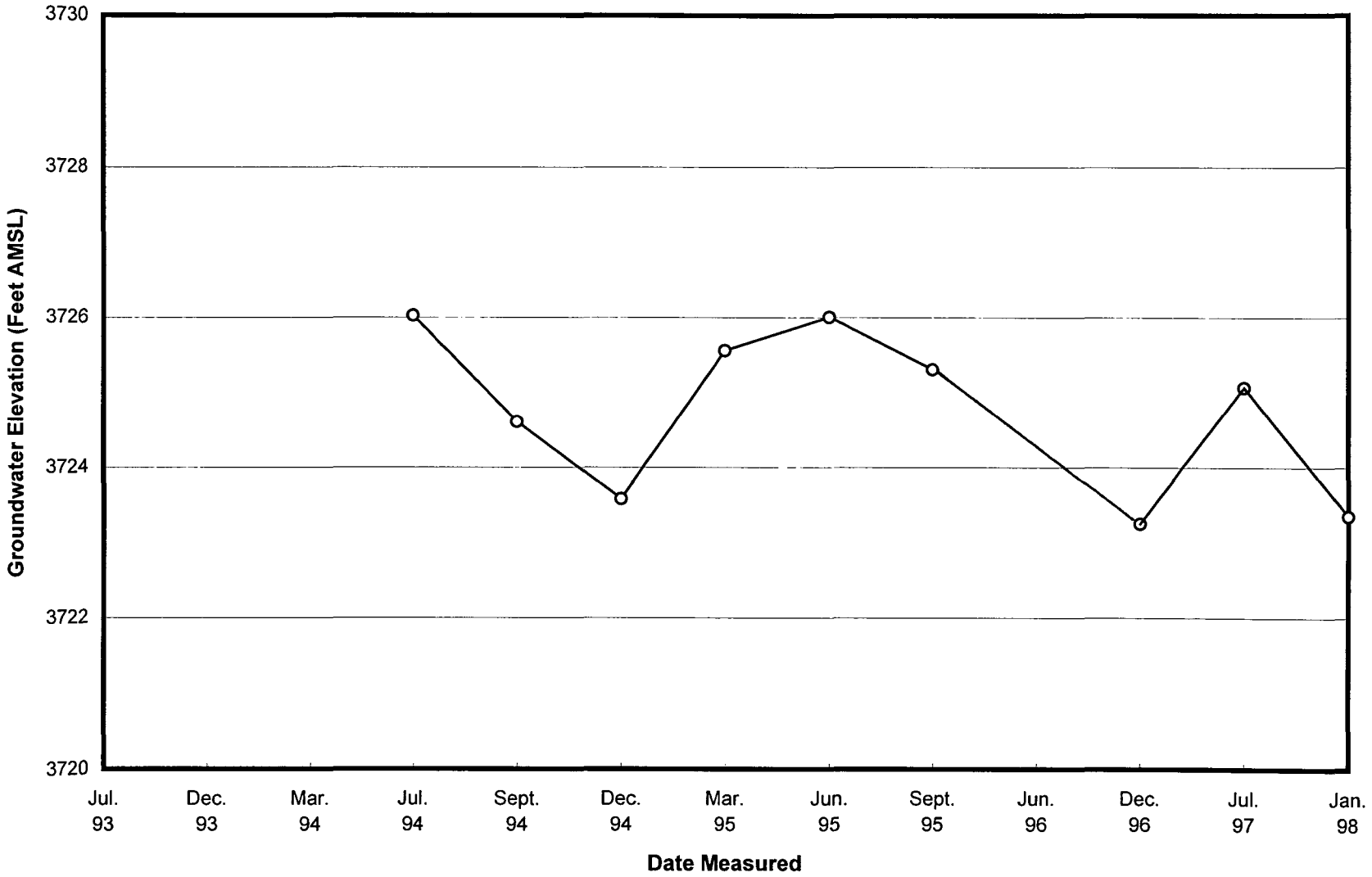
SEMIANN3.XLS:MW-12 WL

Figure 1 (Cont.)
Brickland Refinery
MW-13 Groundwater Elevation Over Time



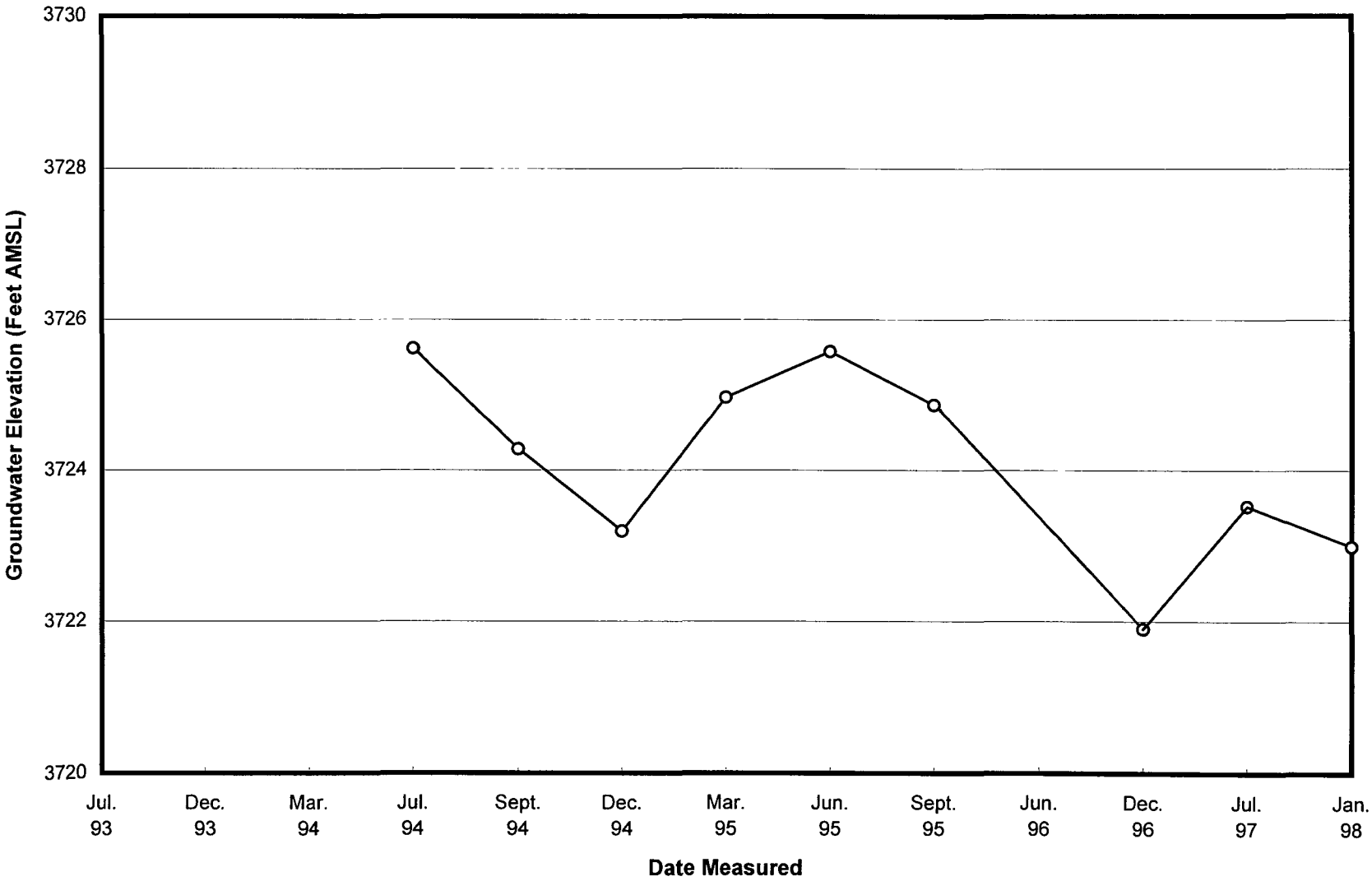
SEMIANN3.XLS:MW-13 WL

Figure 1 (Cont.)
Brickland Refinery
MW-14 Groundwater Elevation Over Time



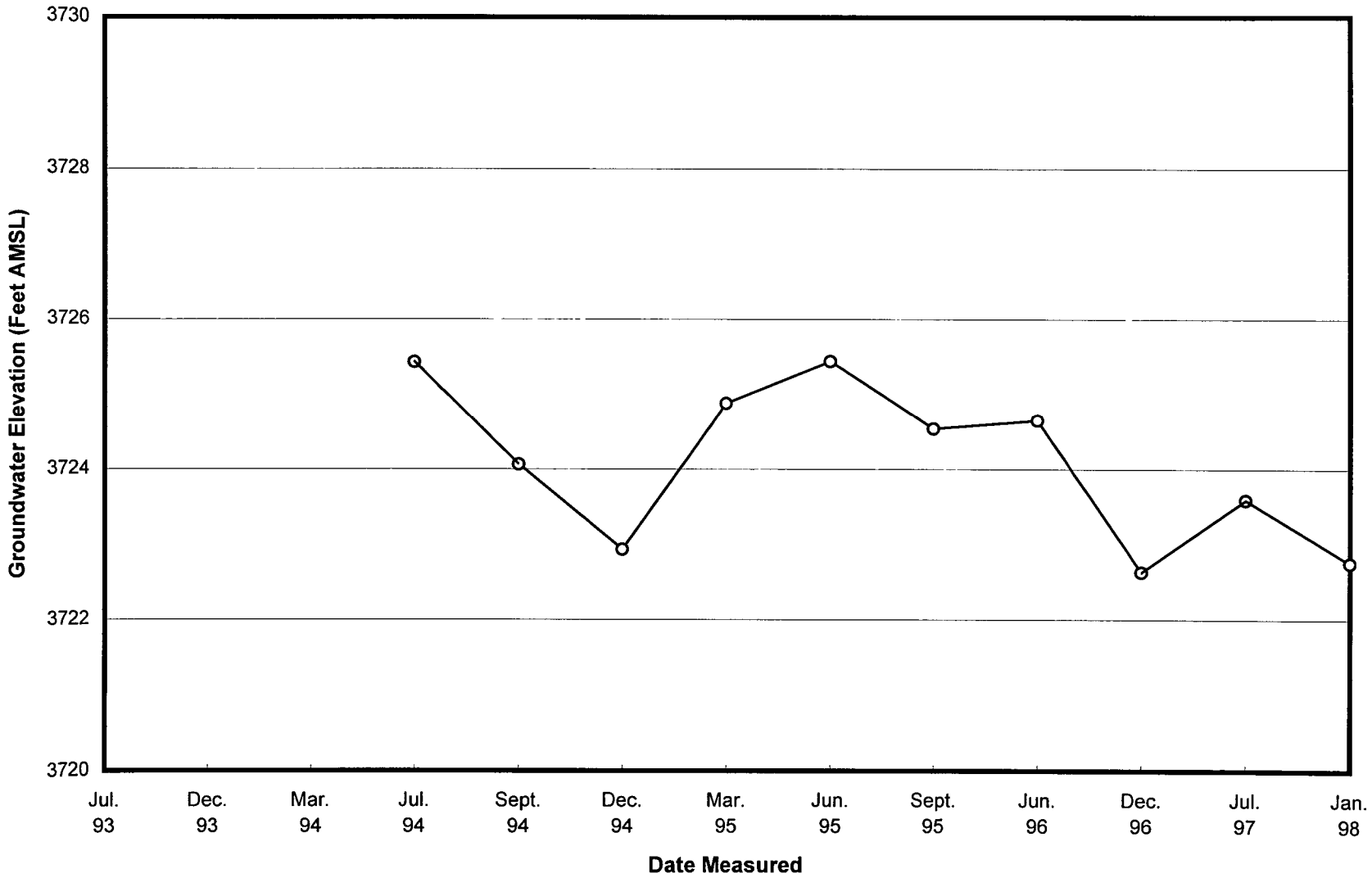
SEMIANN3.XLS:MW-14 WL

Figure 1 (Cont.)
Brickland Refinery
MW-15 Groundwater Elevation Over Time



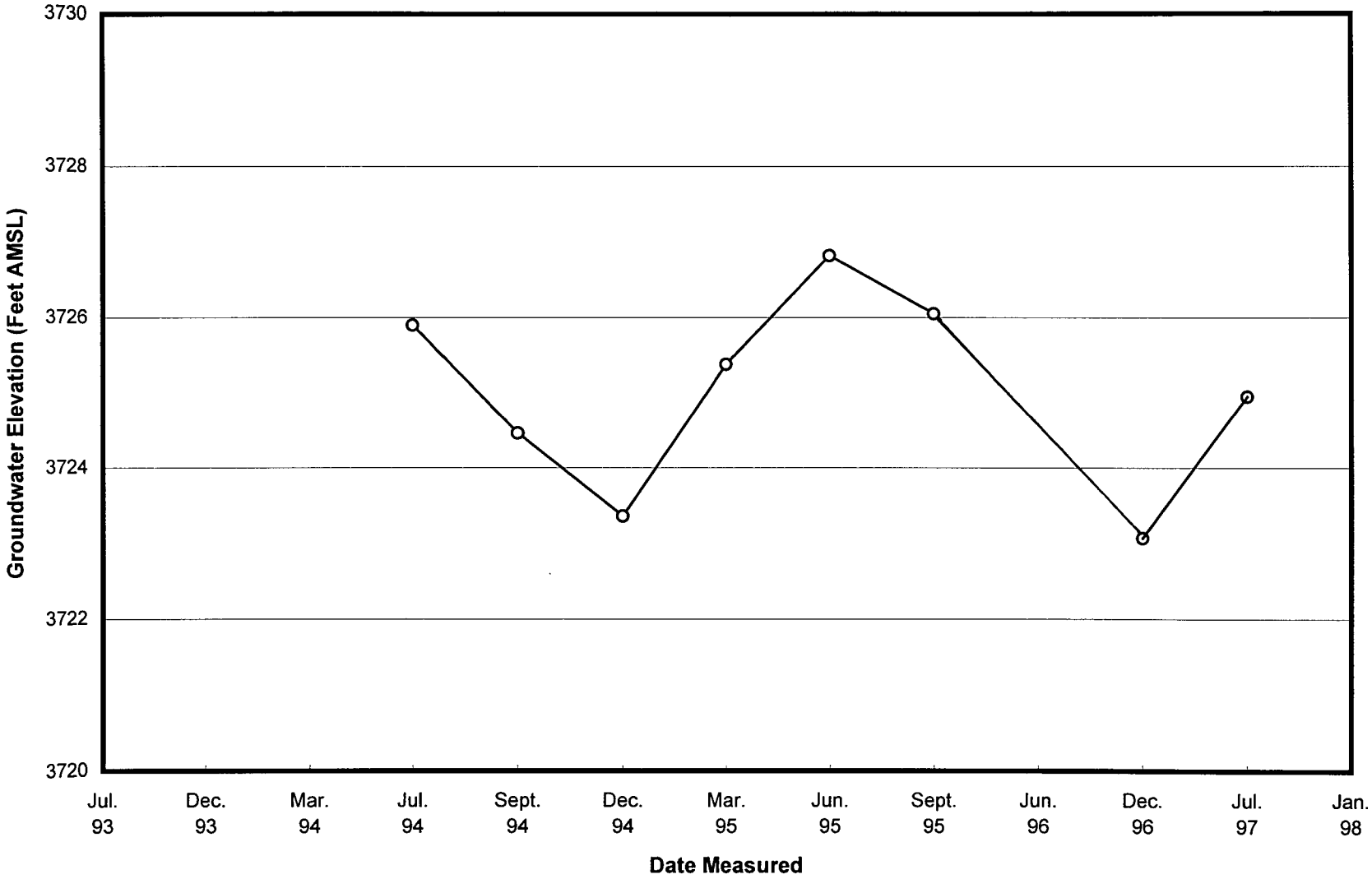
SEMIANN3.XLS:MW-15 WL

Figure 1 (Cont.)
Brickland Refinery
MW-16 Groundwater Elevation Over Time

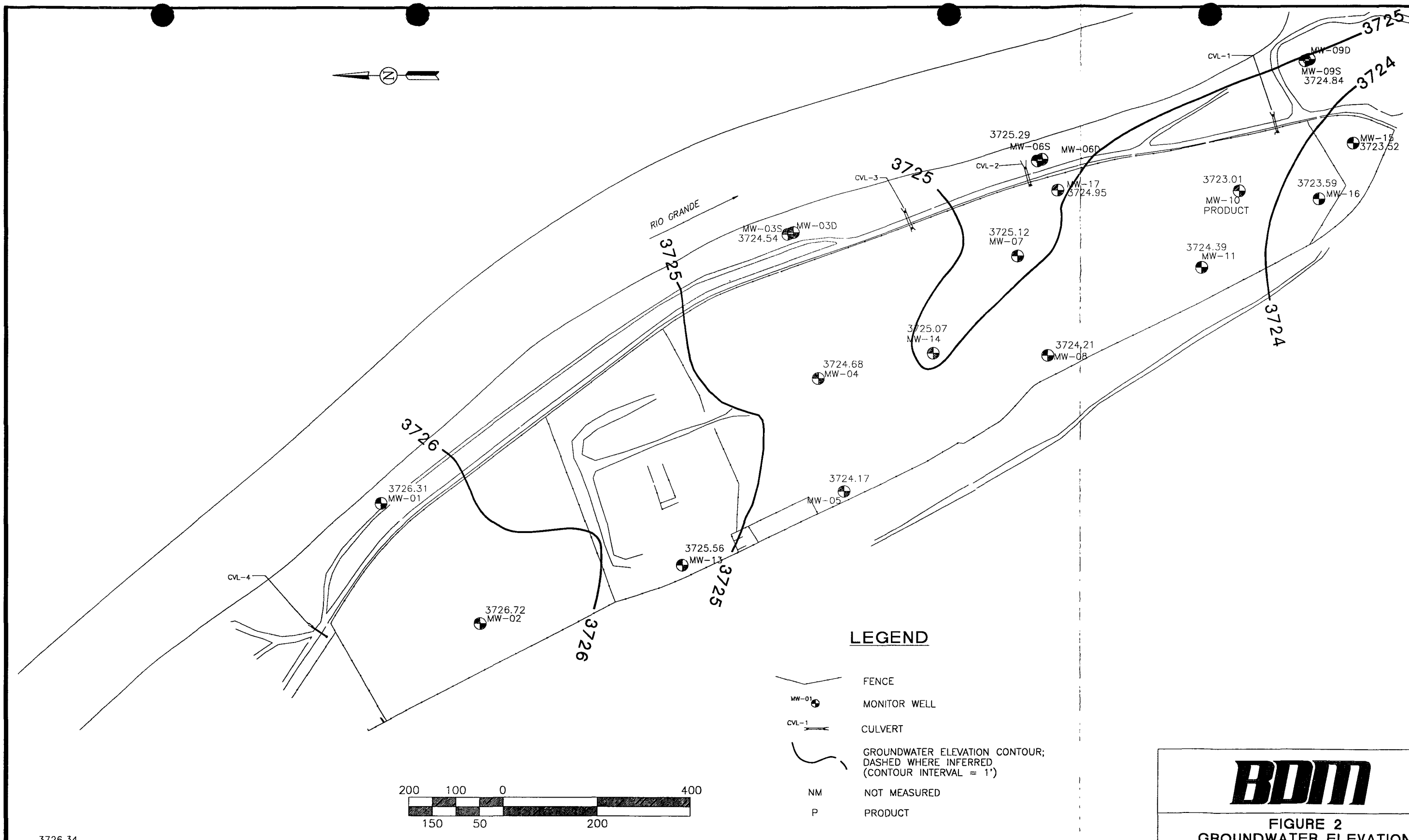


SEMIANN3.XLS:MW-16 WL

Figure 1 (Cont.)
Brickland Refinery
MW-17 Groundwater Elevation Over Time



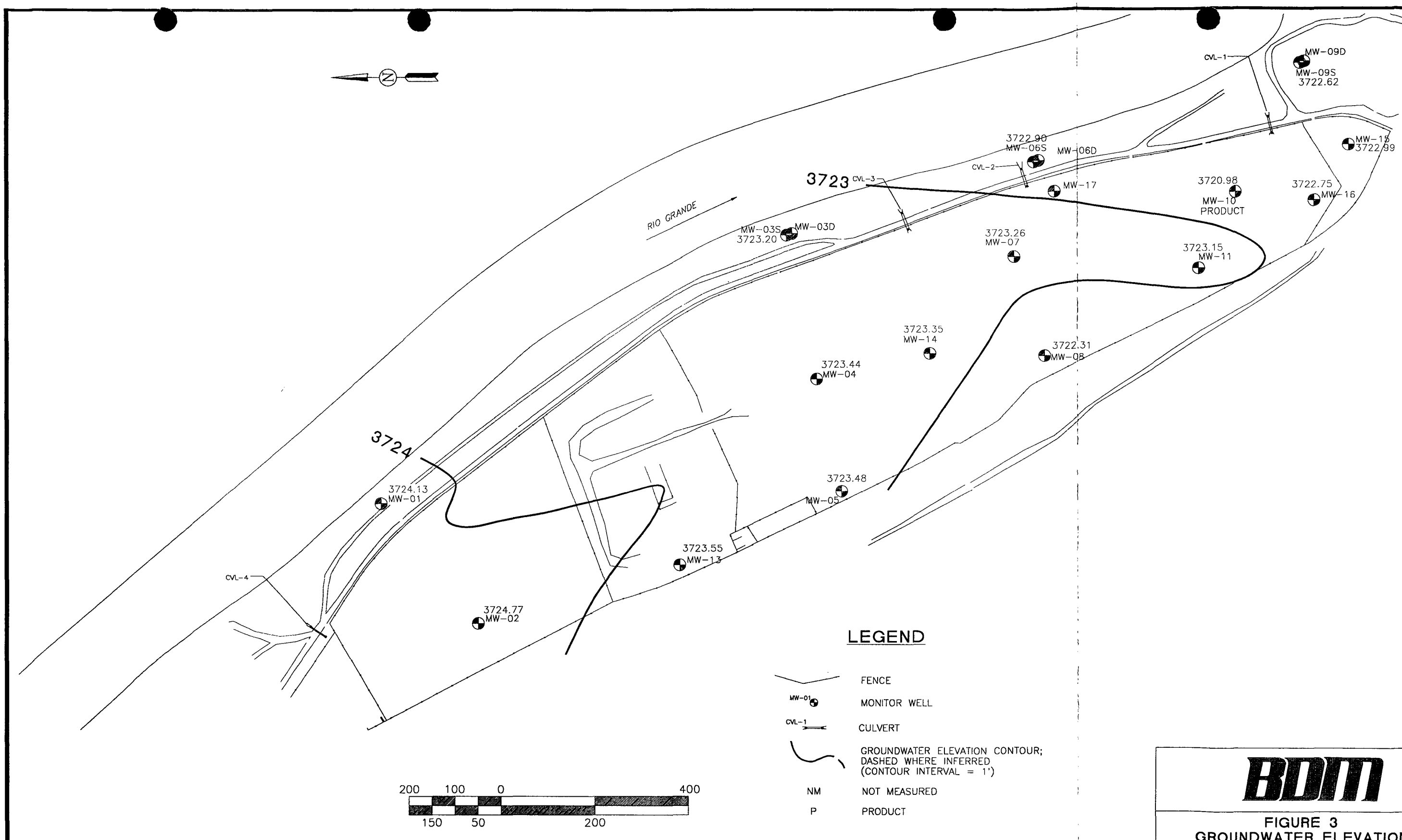
SEMIANN3.XLS:MW-17 WL



BDM

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP (JUNE 1997) BRICKLAND REFINERY SITE

CLIENT: REXENE	
AUTHOR: MWS	DATE: 01/18/98
DRAWN BY: DAG	REV. NO.: 0
CHECKED BY: NKA	FILE: D:\REXENE\GWEL0697



LEGEND

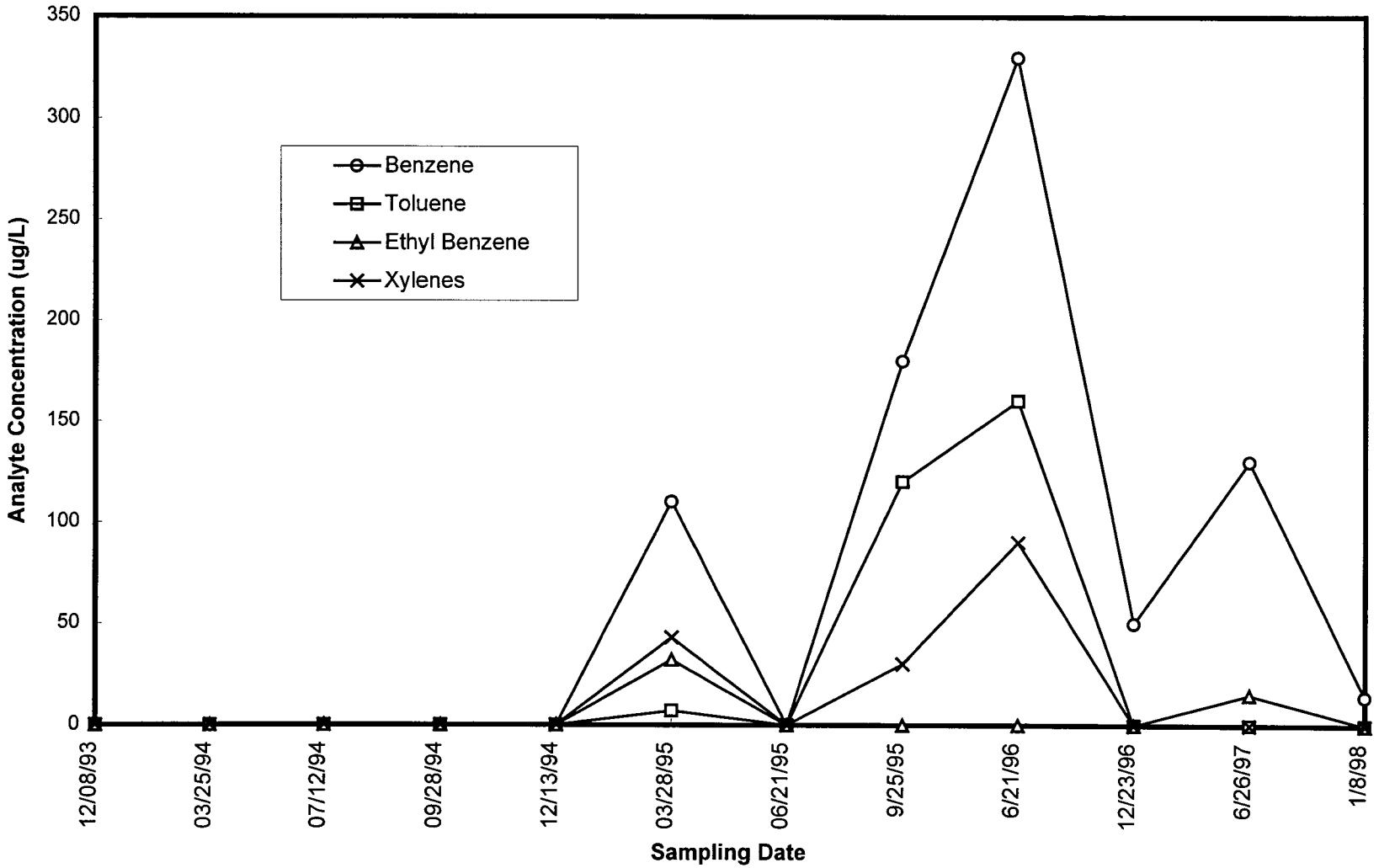
- FENCE
- MW-01 MONITOR WELL
- CVL-1 CULVERT
- GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (CONTOUR INTERVAL = 1')
- NM NOT MEASURED
- P PRODUCT

BDM

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP (JANUARY 1998)
BRICKLAND REFINERY SITE

CLIENT: REXENE	
AUTHOR: MWS	DATE: 01/18/98
DRAWN BY: DAG	REV. NO.: 0
CHECKED BY: NKA	FILE: D:\REXENE\GWEL0198

Figure 4
Brickland Refinery
MW-6S BTEX Concentrations Over Time



SEMIANN3.XLS (MW-6S BTEX)

CORE LABORATORIES

ANALYTICAL REPORT

JOB NUMBER: 971757

Prepared For:

BDM International, Inc.
1801 Randolph Street SE
Albuquerque, NM 87106

Attention: Mike Selke

Date: 07/15/97

Linda L. Benkers
Signature

7-15-97
Date

Name: Linda L. Benkers

Title: QA/QC Coordinator

CORE LABORATORIES, INC.
10703 East Bethany Drive
Aurora, CO 80014

PHONE: (303) 751-1780
FAX: (303) 751-1784

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

BDM

BDM International, Inc.
1801 Randolph Road, SE
MS 10
Albuquerque, NM 87106
(505) 848-5000
FAX: (505) 848-5299

12263

Chain of Custody

Date 6-26-97 Page 1 Of 1

Lab Name Core Laboratories
Address 10003 E. Bethany Dr.
Aurora, CO 80014
Telephone 800-972-2673

Samplers (SIGNATURES)
Dwayne Salisbury

Analysis Request

	Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP- Vol., Semi-Vol. Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)					Number of Containers
1	9706261735	H_2O	MW-3D		X			X										X											5
2	9706261500	H_2O	MW-3M		X			X										X											5
3	9706261930	H_2O	MW-6D		X			X										X											5
4	9706261940	H_2O	Field Blank		X																									3
5	9706262015	H_2O	~~MW-6S~~ Rinsate		X													X	0.5											3
6	9706262030	H_2O	MW-6S		X			X										X												5
7	9706262040	H_2O	Trip Blank		X																									1

Project Information	Sample Receipt	
Project Reserve	Total No. of Containers	27
Project Director M. Selke	Chain of Custody Seals	N
Charge Code No. P/2345/3031-202	Rec'd Good Condition/Cold	Y
Shipping ID. No. 3519924730	Conforms to Record	Y
Via: Fed-Ex	Lab No. 971757	

Special Instructions/Comments:
temp 4.2°c
Normal TAT, any questions please contact Mike Selke @ 505-845-5259

Relinquished By 1.	Relinquished By 2.	Relinquished By 3.
Dwayne Salisbury (Signature) (Time)	(Signature) (Time)	(Signature) (Time)
Dwayne Salisbury 6-26-97 (Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (Date)
BDM (Company)	(Company)	(Company)
Received By 1.	**Received By 2.**	**Received By (Laboratory) 3.**
(Signature) (Time)	(Signature) (Time)	Michelle Weatherford (Signature) (Time)
(Printed Name) (Date)	(Printed Name) (Date)	WEATHERFORD 0835 (Printed Name) (Date)
(Company)	(Company)	CORE 7/1/97 (Laboratory)

Distribution: White, Canary-Laboratory • Pink, BDM

CORE LABORATORIES

SAMPLE DELIVERY GROUP NARRATIVE

July 15, 1997

Customer: BDM International, Inc.
Project: REXENE
Core Laboratories Project Number: 971757

Method 8020 BTEX Analysis:

The ending CCV analyzed with sample 971757-7 was not acquired due to an autosampler malfunction. The preceeding quality control was within acceptance criteria. Another VOA vial was not available for reanalysis.

Linda L. Benkers
QA/QC Coordinator

Kathy L. Klausmeier
Laboratory Supervisor

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpreta tions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

SAMPLE INFORMATION
Date: 07/15/97

Job Number.: 971757
Customer ..: BDM International, Inc.
Attn.....: Mike Selke

Project Number.....: 95000161
Customer Project ID....: REXENE
Project Description....: BDM Rexene Quarterly Waters

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
971757-1	9706261735	Water	06/26/97	17:35	07/01/97	09:35
971757-2	9706261800	Water	06/26/97	18:00	07/01/97	09:35
971757-3	9706261930	Water	06/26/97	19:30	07/01/97	09:35
971757-4	9706261940	Water	06/26/97	19:40	07/01/97	09:35
971757-5	9706262015	Water	06/26/97	20:15	07/01/97	09:35
971757-6	9706262030	Water	06/26/97	20:30	07/01/97	09:35
971757-7	9706262040	Water	06/26/97	20:40	07/01/97	09:35

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261735
Date Sampled.....: 06/26/97
Time Sampled.....: 17:35
Sample Matrix.....: Water

Laboratory Sample ID: 971757-1
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Arsenic (As), Diss.	0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/09/97	gag
EPA 200.7	Cadmium (Cd), Diss.	0.0019	0.0005	mg/L	07/09/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Copper (Cu), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.02	0.02	mg/L	07/09/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	0.007	0.005	mg/L	07/09/97	gag
EPA 200.7	Selenium (Se), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Silver (Ag), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Zinc (Zn), Diss.	<0.005	0.005	mg/L	07/09/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261735
Date Sampled.....: 06/26/97
Time Sampled.....: 17:35
Sample Matrix.....: Water

Laboratory Sample ID: 971757-1
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261800
Date Sampled.....: 06/26/97
Time Sampled.....: 18:00
Sample Matrix.....: Water

Laboratory Sample ID: 971757-2
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Arsenic (As), Diss.	0.02	0.01	mg/L	07/09/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/09/97	gag
EPA 200.7	Cadmium (Cd), Diss.	0.0024	0.0005	mg/L	07/09/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Copper (Cu), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.03	0.03	mg/L	07/09/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	0.016	0.005	mg/L	07/09/97	gag
EPA 200.7	Selenium (Se), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Silver (Ag), Diss.	0.009	0.005	mg/L	07/09/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Zinc (Zn), Diss.	0.006	0.005	mg/L	07/09/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261800
Date Sampled.....: 06/26/97
Time Sampled.....: 18:00
Sample Matrix.....: Water

Laboratory Sample ID: 971757-2
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261930
Date Sampled.....: 06/26/97
Time Sampled.....: 19:30
Sample Matrix.....: Water

Laboratory Sample ID: 971757-3
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Arsenic (As), Diss.	0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/09/97	gag
EPA 200.7	Cadmium (Cd), Diss.	0.0020	0.0005	mg/L	07/09/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Copper (Cu), Diss.	0.006	0.005	mg/L	07/09/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.02	0.02	mg/L	07/09/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	0.025	0.005	mg/L	07/09/97	gag
EPA 200.7	Selenium (Se), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Silver (Ag), Diss.	<0.005	0.005	mg/L	07/09/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/09/97	gag
EPA 200.7	Zinc (Zn), Diss.	<0.005	0.005	mg/L	07/09/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261930
Date Sampled.....: 06/26/97
Time Sampled.....: 19:30
Sample Matrix.....: Water

Laboratory Sample ID: 971757-3
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261940
Date Sampled.....: 06/26/97
Time Sampled.....: 19:40
Sample Matrix.....: Water

Laboratory Sample ID: 971757-4
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706262015
Date Sampled.....: 06/26/97
Time Sampled.....: 20:15
Sample Matrix.....: Water

Laboratory Sample ID: 971757-5
Date Received.....: 07/01/97
Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpreta tions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.01
Parameter.....: Antimony (Sb) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.05048		2.00		102.5	% REC	07/09/97 1118
ICB		970212Z	0.00135						07/09/97 1151
ISB		970708X	0.97731		1.000		97.7	% REC	07/09/97 1259
ISB		970701WW	1.00890		1.000		100.9	% REC	07/09/97 1312
CCV		970304Y	2.51217		2.5		100.5	% REC	07/09/97 1550
CCB		970212Z	0.00261						07/09/97 1606
MD	970111-24		0.00490			0.00329	0.00161	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.00004		1.000	0.00329	99.7	% REC	07/09/97 1654
CCV		970304Y	2.51633		2.5		100.7	% REC	07/09/97 1737
CCB		970212Z	0.00000						07/09/97 1746
CCV		970304Y	2.44038		2.5		97.6	% REC	07/09/97 1904
CCB		970212Z	0.00110						07/09/97 1913
CCV		970304Y	2.38103		2.5		95.2	% REC	07/09/97 2016
CCB		970212Z	0.00056						07/09/97 2050
ISB		970708X	0.97297		1.000		97.3	% REC	07/09/97 2207
ISB		970701WW	1.05376		1.000		105.4	% REC	07/09/97 2218
CCV		970304Y	2.52173		2.5		100.9	% REC	07/09/97 2229
CCB		970212Z	-0.00335						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.01
Parameter.....: Arsenic (As) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.04588		2.00		102.3	% REC	07/09/97 1118
ICB		970212Z	0.00092						07/09/97 1151
ISB		970708X	0.94516		1.000		94.5	% REC	07/09/97 1259
ISB		970701WW	0.97770		1.000		97.8	% REC	07/09/97 1312
CCV		970304Y	2.49957		2.5		100.0	% REC	07/09/97 1550
CCB		970212Z	0.00061						07/09/97 1606
MD	970111-24		0.00367			0.00307	0.00060	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.05944		1.000	0.00307	105.6	% REC	07/09/97 1654
CCV		970304Y	2.51026		2.5		100.4	% REC	07/09/97 1737
CCB		970212Z	0.00016						07/09/97 1746
CCV		970304Y	2.45372		2.5		98.1	% REC	07/09/97 1904
CCB		970212Z	0.00292						07/09/97 1913
CCV		970304Y	2.38043		2.5		95.2	% REC	07/09/97 2016
CCB		970212Z	0.00076						07/09/97 2050
ISB		970708X	0.92909		1.000		92.9	% REC	07/09/97 2207
ISB		970701WW	0.97735		1.000		97.7	% REC	07/09/97 2218
CCV		970304Y	2.52799		2.5		101.1	% REC	07/09/97 2229
CCB		970212Z	0.00003						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.001
Parameter.....: Beryllium (Be) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.09722		2.00		104.9	% REC	07/09/97 1118

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.001
Parameter.....: Beryllium (Be) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICB		970212Z	0.00014						07/09/97 1151
ISB		970708X	0.47010		0.5000		94.0	% REC	07/09/97 1259
ISB		970701WW	0.97415		1.000		97.4	% REC	07/09/97 1312
CCV		970304Y	2.58775		2.5		103.5	% REC	07/09/97 1550
CCB		970212Z	0.00003						07/09/97 1606
MD	970111-24		0.00020			0.00022	0.00002	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.07739		1.000	0.00022	107.7	% REC	07/09/97 1654
CCV		970304Y	2.54822		2.5		101.9	% REC	07/09/97 1737
CCB		970212Z	-0.00000						07/09/97 1746
CCV		970304Y	2.48160		2.5		99.3	% REC	07/09/97 1904
CCB		970212Z	0.00008						07/09/97 1913
CCV		970304Y	2.39777		2.5		95.9	% REC	07/09/97 2016
CCB		970212Z	0.00011						07/09/97 2050
ISB		970708X	0.47240		0.5000		94.5	% REC	07/09/97 2207
ISB		970701WW	0.98421		1.000		98.4	% REC	07/09/97 2218
CCV		970304Y	2.59074		2.5		103.6	% REC	07/09/97 2229
CCB		970212Z	-0.00003						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Cadmium (Cd) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.06574		2.00		103.3	% REC	07/09/97 1118
ICB		970212Z	-0.00015						07/09/97 1151
ISB		970708X	0.89251		1.000		89.3	% REC	07/09/97 1259
ISB		970701WW	0.97055		1.000		97.1	% REC	07/09/97 1312
CCV		970304Y	1.02109		1.0		102.1	% REC	07/09/97 1550
CCB		970212Z	-0.00018						07/09/97 1606
MD	970111-24		0.00047			0.00033	0.00014	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.11476		1.000	0.00033	111.4	% REC	07/09/97 1654
CCV		970304Y	1.02432		1.0		102.4	% REC	07/09/97 1737
CCB		970212Z	-0.00016						07/09/97 1746
CCV		970304Y	1.02605		1.0		102.6	% REC	07/09/97 1904
CCB		970212Z	0.00014						07/09/97 1913
CCV		970304Y	1.02404		1.0		102.4	% REC	07/09/97 2016
CCB		970212Z	0.00003						07/09/97 2050
ISB		970708X	0.89707		1.000		89.7	% REC	07/09/97 2207
ISB		970701WW	0.98616		1.000		98.6	% REC	07/09/97 2218
CCV		970304Y	1.04189		1.0		104.2	% REC	07/09/97 2229
CCB		970212Z	0.00009						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Chromium (Cr) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.05574		2.00		102.8	% REC	07/09/97 1118
ICB		970212Z	-0.00015						07/09/97 1151

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Chromium (Cr) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ISB		970708X	0.46772		0.5000		93.5	% REC	07/09/97 1259
ISA		970618W	48.79621		50.000000		97.6	% REC	07/09/97 1306
ISB		970701WW	45.44014		51.00		89.1	% REC	07/09/97 1312
CCV		970304Y	2.51937		2.5		100.8	% REC	07/09/97 1550
CCB		970212Z	0.00061						07/09/97 1606
MD	970111-24		0.00108			0.00060	0.00048	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.04514		1.000	0.00060	104.5	% REC	07/09/97 1654
CCV		970304Y	2.54166		2.5		101.7	% REC	07/09/97 1737
CCB		970212Z	0.00051						07/09/97 1746
CCV		970304Y	2.51779		2.5		100.7	% REC	07/09/97 1904
CCB		970212Z	-0.00059						07/09/97 1913
CCV		970304Y	2.44459		2.5		97.8	% REC	07/09/97 2016
CCB		970212Z	-0.00090						07/09/97 2050
ISB		970708X	0.46375		0.5000		92.8	% REC	07/09/97 2207
ISA		970618W	48.97531		50.000000		98.0	% REC	07/09/97 2211
ISB		970701WW	45.76190		51.00		89.7	% REC	07/09/97 2218
CCV		970304Y	2.54032		2.5		101.6	% REC	07/09/97 2229
CCB		970212Z	0.00016						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Copper (Cu) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	1.96541		2.00		98.3	% REC	07/09/97 1118
ICB		970212Z	-0.00008						07/09/97 1151
ISB		970708X	0.49360		0.5000		98.7	% REC	07/09/97 1259
ISA		970618W	48.80637		50.000000		97.6	% REC	07/09/97 1306
ISB		970701WW	45.63150		51.00		89.5	% REC	07/09/97 1312
CCV		970304Y	2.54867		2.5		101.9	% REC	07/09/97 1550
CCB		970212Z	0.00042						07/09/97 1606
MD	970111-24		0.00245			0.00255	0.00010	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	0.89330		1.000	0.00255	89.1	% REC	07/09/97 1654
CCV		970304Y	2.60008		2.5		104.0	% REC	07/09/97 1737
CCB		970212Z	0.00046						07/09/97 1746
CCV		970304Y	2.52928		2.5		101.2	% REC	07/09/97 1904
CCB		970212Z	-0.00019						07/09/97 1913
CCV		970304Y	2.46286		2.5		98.5	% REC	07/09/97 2016
CCB		970212Z	-0.00091						07/09/97 2050
ISB		970708X	0.49097		0.5000		98.2	% REC	07/09/97 2207
ISA		970618W	48.80362		50.000000		97.6	% REC	07/09/97 2211
ISB		970701WW	46.29728		51.00		90.8	% REC	07/09/97 2218
CCV		970304Y	2.49310		2.5		99.7	% REC	07/09/97 2229
CCB		970212Z	0.00046						07/09/97 2244

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.003
Parameter.....: Lead (Pb) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.05307		2.00		102.7	% REC	07/09/97 1118
ICB		970212Z	-0.00147						07/09/97 1151
ISB		970708X	0.91866		1.000		91.9	% REC	07/09/97 1259
ISB		970701WW	0.98235		1.000		98.2	% REC	07/09/97 1312
CCV		970304Y	1.01396		1.0		101.4	% REC	07/09/97 1550
CCB		970212Z	-0.00026						07/09/97 1606
MD	970111-24		-0.00101			-0.00052	0.00049	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.10998		1.000	-0.00052	111.0	% REC	07/09/97 1654
CCV		970304Y	1.01873		1.0		101.9	% REC	07/09/97 1737
CCB		970212Z	-0.00015						07/09/97 1746
CCV		970304Y	1.03575		1.0		103.6	% REC	07/09/97 1904
CCB		970212Z	0.00073						07/09/97 1913
CCV		970304Y	0.99279		1.0		99.3	% REC	07/09/97 2016
CCB		970212Z	-0.00213						07/09/97 2050
ISB		970708X	0.91409		1.000		91.4	% REC	07/09/97 2207
ISB		970701WW	0.98491		1.000		98.5	% REC	07/09/97 2218
CCV		970304Y	1.02673		1.0		102.7	% REC	07/09/97 2229
CCB		970212Z	0.00000						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Nickel (Ni) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.04946		2.00		102.5	% REC	07/09/97 1118
ICB		970212Z	0.00014						07/09/97 1151
ISB		970708X	0.86649		1.000		86.6	% REC	07/09/97 1259
ISA		970618W	48.39080		50.000000		96.8	% REC	07/09/97 1306
ISB		970701WW	45.49726		51.00		89.2	% REC	07/09/97 1312
CCV		970304Y	2.56997		2.5		102.8	% REC	07/09/97 1550
CCB		970212Z	-0.00068						07/09/97 1606
MD	970111-24		0.00695			0.00521	0.00174	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.02910		1.000	0.00521	102.4	% REC	07/09/97 1654
CCV		970304Y	2.57610		2.5		103.0	% REC	07/09/97 1737
CCB		970212Z	0.00022						07/09/97 1746
CCV		970304Y	2.58992		2.5		103.6	% REC	07/09/97 1904
CCB		970212Z	-0.00005						07/09/97 1913
CCV		970304Y	2.53794		2.5		101.5	% REC	07/09/97 2016
CCB		970212Z	0.00007						07/09/97 2050
ISB		970708X	0.87994		1.000		88.0	% REC	07/09/97 2207
ISA		970618W	49.63230		50.000000		99.3	% REC	07/09/97 2211
ISB		970701WW	46.77140		51.00		91.7	% REC	07/09/97 2218
CCV		970304Y	2.54123		2.5		101.6	% REC	07/09/97 2229
CCB		970212Z	0.00021						07/09/97 2244

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.001
Parameter.....: Beryllium (Be) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICB		970212Z	0.00014						07/09/97 1151
ISB		970708X	0.47010		0.5000		94.0	% REC	07/09/97 1259
ISB		970701WW	0.97415		1.000		97.4	% REC	07/09/97 1312
CCV		970304Y	2.58775		2.5		103.5	% REC	07/09/97 1550
CCB		970212Z	0.00003						07/09/97 1606
MD	970111-24		0.00020			0.00022	0.00002	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.07739		1.000	0.00022	107.7	% REC	07/09/97 1654
CCV		970304Y	2.54822		2.5		101.9	% REC	07/09/97 1737
CCB		970212Z	-0.00000						07/09/97 1746
CCV		970304Y	2.48160		2.5		99.3	% REC	07/09/97 1904
CCB		970212Z	0.00008						07/09/97 1913
CCV		970304Y	2.39777		2.5		95.9	% REC	07/09/97 2016
CCB		970212Z	0.00011						07/09/97 2050
ISB		970708X	0.47240		0.5000		94.5	% REC	07/09/97 2207
ISB		970701WW	0.98421		1.000		98.4	% REC	07/09/97 2218
CCV		970304Y	2.59074		2.5		103.6	% REC	07/09/97 2229
CCB		970212Z	-0.00003						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Cadmium (Cd) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.06574		2.00		103.3	% REC	07/09/97 1118
ICB		970212Z	-0.00015						07/09/97 1151
ISB		970708X	0.89251		1.000		89.3	% REC	07/09/97 1259
ISB		970701WW	0.97055		1.000		97.1	% REC	07/09/97 1312
CCV		970304Y	1.02109		1.0		102.1	% REC	07/09/97 1550
CCB		970212Z	-0.00018						07/09/97 1606
MD	970111-24		0.00047			0.00033	0.00014	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.11476		1.000	0.00033	111.4	% REC	07/09/97 1654
CCV		970304Y	1.02432		1.0		102.4	% REC	07/09/97 1737
CCB		970212Z	-0.00016						07/09/97 1746
CCV		970304Y	1.02605		1.0		102.6	% REC	07/09/97 1904
CCB		970212Z	0.00014						07/09/97 1913
CCV		970304Y	1.02404		1.0		102.4	% REC	07/09/97 2016
CCB		970212Z	0.00003						07/09/97 2050
ISB		970708X	0.89707		1.000		89.7	% REC	07/09/97 2207
ISB		970701WW	0.98616		1.000		98.6	% REC	07/09/97 2218
CCV		970304Y	1.04189		1.0		104.2	% REC	07/09/97 2229
CCB		970212Z	0.00009						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Chromium (Cr) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.05574		2.00		102.8	% REC	07/09/97 1118
ICB		970212Z	-0.00015						07/09/97 1151

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Chromium (Cr) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ISB		970708X	0.46772		0.5000		93.5	% REC	07/09/97 1259
ISA		970618W	48.79621		50.000000		97.6	% REC	07/09/97 1306
ISB		970701WW	45.44014		51.00		89.1	% REC	07/09/97 1312
CCV		970304Y	2.51937		2.5		100.8	% REC	07/09/97 1550
CCB		970212Z	0.00061						07/09/97 1606
MD	970111-24		0.00108			0.00060	0.00048	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.04514		1.000	0.00060	104.5	% REC	07/09/97 1654
CCV		970304Y	2.54166		2.5		101.7	% REC	07/09/97 1737
CCB		970212Z	0.00051						07/09/97 1746
CCV		970304Y	2.51779		2.5		100.7	% REC	07/09/97 1904
CCB		970212Z	-0.00059						07/09/97 1913
CCV		970304Y	2.44459		2.5		97.8	% REC	07/09/97 2016
CCB		970212Z	-0.00090						07/09/97 2050
ISB		970708X	0.46375		0.5000		92.8	% REC	07/09/97 2207
ISA		970618W	48.97531		50.000000		98.0	% REC	07/09/97 2211
ISB		970701WW	45.76190		51.00		89.7	% REC	07/09/97 2218
CCV		970304Y	2.54032		2.5		101.6	% REC	07/09/97 2229
CCB		970212Z	0.00016						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Copper (Cu) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	1.96541		2.00		98.3	% REC	07/09/97 1118
ICB		970212Z	-0.00008						07/09/97 1151
ISB		970708X	0.49360		0.5000		98.7	% REC	07/09/97 1259
ISA		970618W	48.80637		50.000000		97.6	% REC	07/09/97 1306
ISB		970701WW	45.63150		51.00		89.5	% REC	07/09/97 1312
CCV		970304Y	2.54867		2.5		101.9	% REC	07/09/97 1550
CCB		970212Z	0.00042						07/09/97 1606
MD	970111-24		0.00245			0.00255	0.00010	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	0.89330		1.000	0.00255	89.1	% REC	07/09/97 1654
CCV		970304Y	2.60008		2.5		104.0	% REC	07/09/97 1737
CCB		970212Z	0.00046						07/09/97 1746
CCV		970304Y	2.52928		2.5		101.2	% REC	07/09/97 1904
CCB		970212Z	-0.00019						07/09/97 1913
CCV		970304Y	2.46286		2.5		98.5	% REC	07/09/97 2016
CCB		970212Z	-0.00091						07/09/97 2050
ISB		970708X	0.49097		0.5000		98.2	% REC	07/09/97 2207
ISA		970618W	48.80362		50.000000		97.6	% REC	07/09/97 2211
ISB		970701WW	46.29728		51.00		90.8	% REC	07/09/97 2218
CCV		970304Y	2.49310		2.5		99.7	% REC	07/09/97 2229
CCB		970212Z	0.00046						07/09/97 2244

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.003
Parameter.....: Lead (Pb) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.05307		2.00		102.7	% REC	07/09/97 1118
ICB		970212Z	-0.00147						07/09/97 1151
ISB		970708X	0.91866		1.000		91.9	% REC	07/09/97 1259
ISB		970701WW	0.98235		1.000		98.2	% REC	07/09/97 1312
CCV		970304Y	1.01396		1.0		101.4	% REC	07/09/97 1550
CCB		970212Z	-0.00026						07/09/97 1606
MD	970111-24		-0.00101			-0.00052	0.00049	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.10998		1.000	-0.00052	111.0	% REC	07/09/97 1654
CCV		970304Y	1.01873		1.0		101.9	% REC	07/09/97 1737
CCB		970212Z	-0.00015						07/09/97 1746
CCV		970304Y	1.03575		1.0		103.6	% REC	07/09/97 1904
CCB		970212Z	0.00073						07/09/97 1913
CCV		970304Y	0.99279		1.0		99.3	% REC	07/09/97 2016
CCB		970212Z	-0.00213						07/09/97 2050
ISB		970708X	0.91409		1.000		91.4	% REC	07/09/97 2207
ISB		970701WW	0.98491		1.000		98.5	% REC	07/09/97 2218
CCV		970304Y	1.02673		1.0		102.7	% REC	07/09/97 2229
CCB		970212Z	0.00000						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Nickel (Ni) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.04946		2.00		102.5	% REC	07/09/97 1118
ICB		970212Z	0.00014						07/09/97 1151
ISB		970708X	0.86649		1.000		86.6	% REC	07/09/97 1259
ISA		970618W	48.39080		50.000000		96.8	% REC	07/09/97 1306
ISB		970701WW	45.49726		51.00		89.2	% REC	07/09/97 1312
CCV		970304Y	2.56997		2.5		102.8	% REC	07/09/97 1550
CCB		970212Z	-0.00068						07/09/97 1606
MD	970111-24		0.00695			0.00521	0.00174	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.02910		1.000	0.00521	102.4	% REC	07/09/97 1654
CCV		970304Y	2.57610		2.5		103.0	% REC	07/09/97 1737
CCB		970212Z	0.00022						07/09/97 1746
CCV		970304Y	2.58992		2.5		103.6	% REC	07/09/97 1904
CCB		970212Z	-0.00005						07/09/97 1913
CCV		970304Y	2.53794		2.5		101.5	% REC	07/09/97 2016
CCB		970212Z	0.00007						07/09/97 2050
ISB		970708X	0.87994		1.000		88.0	% REC	07/09/97 2207
ISA		970618W	49.63230		50.000000		99.3	% REC	07/09/97 2211
ISB		970701WW	46.77140		51.00		91.7	% REC	07/09/97 2218
CCV		970304Y	2.54123		2.5		101.6	% REC	07/09/97 2229
CCB		970212Z	0.00021						07/09/97 2244

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.01
Parameter.....: Selenium (Se) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.05433		2.00		102.7	% REC	07/09/97 1118
ICB		970212Z	0.00214						07/09/97 1151
ISB		970708X	0.93367		1.000		93.4	% REC	07/09/97 1259
ISB		970701WW	0.96614		1.000		96.6	% REC	07/09/97 1312
CCV		970304Y	2.48200		2.5		99.3	% REC	07/09/97 1550
CCB		970212Z	-0.00050						07/09/97 1606
MD	970111-24		-0.00137			-0.00454	0.00317	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.07428		1.000	-0.00454	107.9	% REC	07/09/97 1654
CCV		970304Y	2.49315		2.5		99.7	% REC	07/09/97 1737
CCB		970212Z	-0.00298						07/09/97 1746
CCV		970304Y	2.45390		2.5		98.2	% REC	07/09/97 1904
CCB		970212Z	-0.00507						07/09/97 1913
CCV		970304Y	2.52227		2.5		100.9	% REC	07/09/97 2016
CCB		970212Z	-0.00302						07/09/97 2050
ISB		970708X	0.93831		1.000		93.8	% REC	07/09/97 2207
ISB		970701WW	0.98639		1.000		98.6	% REC	07/09/97 2218
CCV		970304Y	2.50704		2.5		100.3	% REC	07/09/97 2229
CCB		970212Z	0.00002						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Silver (Ag) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970325Y	2.03041		2.00		101.5	% REC	07/09/97 1128
ICB		970212Z	-0.00226						07/09/97 1151
ISB		970708X	0.93867		1.000		93.9	% REC	07/09/97 1259
ISB		970701WW	0.94933		1.000		94.9	% REC	07/09/97 1312
CCV		970702D	2.52999		2.500		101.2	% REC	07/09/97 1520
CCB		970212Z	0.00161						07/09/97 1606
MD	970111-24		-0.00027			-0.00223	0.00196	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	0.98059		1.000	-0.00223	98.3	% REC	07/09/97 1654
CCV		970702D	2.58974		2.500		103.6	% REC	07/09/97 1733
CCB		970212Z	0.00089						07/09/97 1746
CCV		970702D	2.61051		2.500		104.4	% REC	07/09/97 1847
CCB		970212Z	-0.00258						07/09/97 1913
CCV		970702D	2.48358		2.500		99.3	% REC	07/09/97 2001
CCB		970212Z	-0.00479						07/09/97 2050
ISB		970708X	0.90828		1.000		90.8	% REC	07/09/97 2207
ISB		970701WW	0.93042		1.000		93.0	% REC	07/09/97 2218
CCV		970702D	2.43040		2.500		97.2	% REC	07/09/97 2225
CCB		970212Z	0.00070						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.01
Parameter.....: Thallium (Tl) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	1.99637		2.00		99.8	% REC	07/09/97 1118

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.01
Parameter.....: Thallium (Tl) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICB		970212Z	0.00042						07/09/97 1151
ISB		970708X	0.98030		1.000		98.0	% REC	07/09/97 1259
ISA		970618W	48.69480		50.000000		97.4	% REC	07/09/97 1306
ISB		970701WW	47.17610		51.00		92.5	% REC	07/09/97 1312
CCV		970304Y	0.99343		1.0		99.3	% REC	07/09/97 1550
CCB		970212Z	-0.00045						07/09/97 1606
MD	970111-24		0.00111			-0.00014	0.00125	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.05987		1.000	-0.00014	106.0	% REC	07/09/97 1654
CCV		970304Y	1.00960		1.0		101.0	% REC	07/09/97 1737
CCB		970212Z	-0.00098						07/09/97 1746
CCV		970304Y	1.02440		1.0		102.4	% REC	07/09/97 1904
CCB		970212Z	-0.00171						07/09/97 1913
CCV		970304Y	0.98510		1.0		98.5	% REC	07/09/97 2016
CCB		970212Z	-0.00013						07/09/97 2050
ISB		970708X	0.91078		1.000		91.1	% REC	07/09/97 2207
ISA		970618W	48.67189		50.000000		97.3	% REC	07/09/97 2211
ISB		970701WW	47.33219		51.00		92.8	% REC	07/09/97 2218
CCV		970304Y	0.99835		1.0		99.8	% REC	07/09/97 2229
CCB		970212Z	-0.00020						07/09/97 2244

Test Method.....: EPA 200.7 Batch.....: 23517 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Reporting Limit...: 0.005
Parameter.....: Zinc (Zn) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970624W	2.08476		2.00		104.2	% REC	07/09/97 1118
ICB		970212Z	0.00023						07/09/97 1151
ISB		970708X	0.97258		1.000		97.3	% REC	07/09/97 1259
ISB		970701WW	1.03081		1.000		103.1	% REC	07/09/97 1312
CCV		970304Y	2.58279		2.5		103.3	% REC	07/09/97 1550
CCB		970212Z	0.00005						07/09/97 1606
MD	970111-24		0.00361			0.00297	0.00064	ABS Diff.	07/09/97 1649
PDS	970111-24	970630Z	1.05658		1.000	0.00297	105.4	% REC	07/09/97 1654
CCV		970304Y	2.56888		2.5		102.8	% REC	07/09/97 1737
CCB		970212Z	0.00004						07/09/97 1746
CCV		970304Y	2.51759		2.5		100.7	% REC	07/09/97 1904
CCB		970212Z	0.00047						07/09/97 1913
CCV		970304Y	2.42304		2.5		96.9	% REC	07/09/97 2016
CCB		970212Z	0.00014						07/09/97 2050
ISB		970708X	0.98170		1.000		98.2	% REC	07/09/97 2207
ISB		970701WW	1.05596		1.000		105.6	% REC	07/09/97 2218
CCV		970304Y	2.57942		2.5		103.2	% REC	07/09/97 2229
CCB		970212Z	0.00008						07/09/97 2244

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 245.2 Batch.....: 23538 Analyst...: veb
Method Description.: Mercury (CVAA) Reporting Limit...: 0.0002
Parameter.....: Mercury (Hg) Units.....: mg/L

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	Units	Date/Time
ICV		970701H	0.003603		0.004000		90.1	% REC	07/10/97 1106
ICB		07107	-0.000001						07/10/97 1108
MB		0709	0.000017						07/10/97 1111
SB		970529M	0.004462		0.005000		89.2	% REC	07/10/97 1113
MS	971760-1	970529M	0.004295		0.005000	0.000024	85.4	% REC	07/10/97 1119
MD	971760-1		0.000021			0.000024	0.00000	ABS Diff.	07/10/97 1121
MB		0709	0.000010						07/10/97 1125
SB		970529M	0.004953		0.005000		99.1	% REC	07/10/97 1127
CCV		960930N	0.005211		0.005000		104.2	% REC	07/10/97 1132
CCB		07107	-0.000001						07/10/97 1134
MS	971757-1	970529M	0.004087		0.005000	0.000086	80.0	% REC	07/10/97 1136
MSD	971757-1	970529M	0.004093	0.00408	0.005000	0.000086	80.1	% REC	07/10/97 1138
							0.1	RPD	
MD	971757-6		0.000022			0.000035	0.00001	ABS Diff.	07/10/97 1146
CCV		960930N	0.005214		0.005000		104.3	% REC	07/10/97 1157
CCB		07107	-0.000002						07/10/97 1159
CCV		960930N	0.005057		0.005000		101.2	% REC	07/10/97 1223
CCB		07107	0.000145						07/10/97 1225
SB		970529M	0.004313		0.005000		86.3	% REC	07/10/97 1227
EB		0707	0.000121						07/10/97 1229
ED	971620-1		0.000088			0.000108	0.00001	ABS Diff.	07/10/97 1233
MD	971620-2		0.000059			0.000063	0.00000	ABS Diff.	07/10/97 1239
MB		0709	0.000028						07/10/97 1246
CCV		960930N	0.005156		0.005000		103.1	% REC	07/10/97 1248
CCB		07107	0.000068						07/10/97 1250
SB		970529M	0.004967		0.005000		99.3	% REC	07/10/97 1252
LCS		970353	0.004338		0.005130		84.6	% REC	07/10/97 1254
CCV		960930N	0.005178		0.005000		103.6	% REC	07/10/97 1307
CCB		07107	0.000058						07/10/97 1309
MS	971758-1	970529M	0.004575		0.005000	0.000011	91.3	% REC	07/10/97 1330
CCV		960930N	0.005200		0.005000		104.0	% REC	07/10/97 1345
CCB		07107	0.000129						07/10/97 1347
MSD	971758-1	970529M	0.004600	0.00457	0.005000	0.000011	91.8	% REC	07/10/97 1402
							0.6	RPD	
CCV		960930N	0.005158		0.005000		103.2	% REC	07/10/97 1412
CCB		07107	0.000067						07/10/97 1431
CCV		960930N	0.005202		0.005000		104.1	% REC	07/10/97 1437
CCB		07107	0.000054						07/10/97 1439

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8020 Batch.....: 23419 Analyst ...: vdt
Method Description.: Volatile Organics -Aromatics Units.....: ug/L

MB | Method Blank | | | | 07/07/97 1109

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	ND		0.5				
Ethylbenzene	ND		0.5				
Toluene	ND		0.5				
Xylenes (total)	ND		0.5				

SB | Spiked Blank | T970707B | | | 07/07/97 1143

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	22.079		0.5	20.10		109.8	% REC
Ethylbenzene	21.131		0.5	20.08		105.2	% REC
Toluene	21.789		0.5	20.08		108.5	% REC
Xylenes (total)	62.008		0.5	60.26		102.9	% REC

SBD | Spiked Blank Duplicate | T970707B | | | 07/07/97 1218

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	22.187	22.079	0.5	20.10		110.4	% REC
						0.5	RPD
Ethylbenzene	21.261	21.131	0.5	20.08		105.9	% REC
						0.6	RPD
Toluene	21.886	21.789	0.5	20.08		109.0	% REC
						0.4	RPD
Xylenes (total)	63.746	62.008	0.5	60.26		105.8	% REC
						2.8	RPD

Test Method.....: SW-846 8020 Batch.....: 23435 Analyst ...: vdt
Method Description.: Volatile Organics -Aromatics Units.....: ug/L

MB | Method Blank | | | | 07/03/97 1001

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	ND		0.5				
Ethylbenzene	ND		0.5				
Toluene	ND		0.5				
Xylenes (total)	ND		0.5				

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SB	Spiked Blank	T970703B			07/03/97	1126

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	20.903		0.5	20.10		104.0	% REC
Ethylbenzene	19.792		0.5	20.08		98.6	% REC
Toluene	20.673		0.5	20.08		103.0	% REC
Xylenes (total)	60.622		0.5	60.26		100.6	% REC

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SBD	Spiked Blank Duplicate	T970703B			07/03/97	1201

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Benzene	20.997	20.903	0.5	20.10		104.5	% REC
						0.4	RPD
Ethylbenzene	20.047	19.792	0.5	20.08		99.8	% REC
						1.3	RPD
Toluene	20.706	20.673	0.5	20.08		103.1	% REC
						0.2	RPD
Xylenes (total)	60.990	60.622	0.5	60.26		101.2	% REC
						0.6	RPD

Test Method.....: SW-846 8270 Batch.....: 23485 Analyst ...: dmj
Method Description.: Semivolatile Organics (Client List) Units.....: ug/L

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	MB3110			07/08/97	1339

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	ND		10				
Acenaphthylene	ND		10				
Anthracene	ND		10				
Benzo(a)anthracene	ND		10				
Benzo(b)fluoranthene	ND		10				
Benzo(k)fluoranthene	ND		10				
Benzo(ghi)perylene	ND		10				
Benzo(a)pyrene	ND		10				
Chrysene	ND		10				
Dibenzo(a,h)anthracene	ND		10				
Fluoranthene	ND		10				
Fluorene	ND		10				
Indeno(1,2,3-cd)pyrene	ND		10				
1-Methylnaphthalene	ND		10				
2-Methylnaphthalene	ND		10				
Naphthalene	ND		10				
Phenanthrene	ND		10				
Pyrene	ND		10				

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971757 Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	B970613A			07/08/97	1437

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	76.44		10	100.0	ND	76.4	% REC
Pyrene	90.09		10	100.1	ND	90.0	% REC

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCD	Laboratory Control Sample Duplicate	B970613A			07/08/97	1536

Parameter/Test Description	QC Result	QC Result	Rep. Limit	True Value	Orig. Value	Calc. Result	Units
Acenaphthene	77.54	76.44	10	100.0	ND	77.5	% REC
						1.4	RPD
Pyrene	90.19	90.09	10	100.1	ND	90.1	% REC
						0.1	RPD

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 971757 Report Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Method.....: SW-846 8020 Batch.....: 23419
Method Code.....: 8020 Analyst.....: vdt

Surrogate	Units
BFB (Surrogate)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB		21.718	20.07	108.2		07/07/97	1109
		SB		20.738	20.07	103.3		07/07/97	1143
		SBD		20.801	20.07	103.6		07/07/97	1218
971757-1				20.386	20.07	101.6		07/07/97	1851
971757-2				20.131	20.07	100.3		07/07/97	2010
971757-3				19.988	20.07	99.6		07/07/97	2045
971757-4				19.862	20.07	99.0		07/07/97	2119
971757-5				19.735	20.07	98.3		07/07/97	2154
971758-2				19.750	20.07	98.4		07/07/97	2252
971758-1				20.610	20.07	102.7		07/07/97	2326
971757-6			10	19.214	20.07	95.7		07/08/97	0001

Method.....: SW-846 8020 Batch.....: 23435
Method Code.....: 8020 Analyst.....: vdt

Surrogate	Units
BFB (Surrogate)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB		21.278	20.07	106.0		07/03/97	1001
		SB		20.385	20.07	101.6		07/03/97	1126
		SBD		20.272	20.07	101.0		07/03/97	1201
971757-7				19.352	20.07	96.4		07/03/97	1235

Method.....: SW-846 8270 Batch.....: 23485
Method Code.....: 8270C Analyst.....: dmj

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	77.59	100.51	77		07/08/97	1339
		LCS	1.00	85.84	100.51	85		07/08/97	1437
		LCD	1.00	86.45	100.51	86		07/08/97	1536
971757-1			1.00	87.68	100.51	87		07/08/97	1634
971757-2			1.00	88.65	100.51	88		07/08/97	1732
971757-3			1.00	88.60	100.51	88		07/08/97	1830
971757-6			1.00	88.38	100.51	88		07/08/97	1928

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 971757 Report Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
971758-1			1.00	93.09	100.51	93		07/08/97	2026
971758-2			1.00	87.51	100.51	87		07/08/97	2123
971758-3			1.00	86.54	100.51	86		07/08/97	2220
971758-4			1.00	87.74	100.51	87		07/08/97	2317

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	35.84	50.00	72		07/08/97	1339
		LCS	1.00	35.17	50.00	70		07/08/97	1437
		LCD	1.00	35.81	50.00	72		07/08/97	1536
971757-1			1.00	42.50	50.00	85		07/08/97	1634
971757-2			1.00	41.98	50.00	84		07/08/97	1732
971757-3			1.00	41.48	50.00	83		07/08/97	1830
971757-6			1.00	44.13	50.00	88		07/08/97	1928
971758-1			1.00	43.56	50.00	87		07/08/97	2026
971758-2			1.00	37.55	50.00	75		07/08/97	2123
971758-3			1.00	36.85	50.00	74		07/08/97	2220
971758-4			1.00	35.54	50.00	71		07/08/97	2317

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	39.36	99.98	39		07/08/97	1339
		LCS	1.00	37.72	99.98	38		07/08/97	1437
		LCD	1.00	38.15	99.98	38		07/08/97	1536
971757-1			1.00	43.80	99.98	44		07/08/97	1634
971757-2			1.00	42.57	99.98	43		07/08/97	1732
971757-3			1.00	44.14	99.98	44		07/08/97	1830
971757-6			1.00	60.66	99.98	61		07/08/97	1928
971758-1			1.00	43.72	99.98	44		07/08/97	2026
971758-2			1.00	38.73	99.98	39		07/08/97	2123
971758-3			1.00	38.81	99.98	39		07/08/97	2220
971758-4			1.00	35.99	99.98	36		07/08/97	2317

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 971757 Report Date: 07/15/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	37.53	50.07	75		07/08/97	1339
		LCS	1.00	36.57	50.07	73		07/08/97	1437
		LCD	1.00	36.86	50.07	74		07/08/97	1536
971757-1			1.00	40.45	50.07	81		07/08/97	1634
971757-2			1.00	40.17	50.07	80		07/08/97	1732
971757-3			1.00	39.65	50.07	79		07/08/97	1830
971757-6			1.00	43.36	50.07	87		07/08/97	1928
971758-1			1.00	39.19	50.07	78		07/08/97	2026
971758-2			1.00	35.85	50.07	72		07/08/97	2123
971758-3			1.00	36.41	50.07	73		07/08/97	2220
971758-4			1.00	33.66	50.07	67		07/08/97	2317

Surrogate	Units
Phenol-d6	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	26.92	100.40	27		07/08/97	1339
		LCS	1.00	29.37	100.40	29		07/08/97	1437
		LCD	1.00	29.88	100.40	30		07/08/97	1536
971757-1			1.00	29.10	100.40	29		07/08/97	1634
971757-2			1.00	28.39	100.40	28		07/08/97	1732
971757-3			1.00	29.44	100.40	29		07/08/97	1830
971757-6			1.00	35.74	100.40	36		07/08/97	1928
971758-1			1.00	31.37	100.40	31		07/08/97	2026
971758-2			1.00	26.33	100.40	26		07/08/97	2123
971758-3			1.00	27.05	100.40	27		07/08/97	2220
971758-4			1.00	25.35	100.40	25		07/08/97	2317

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Flag	Date	Time
		MB	1.00	46.48	50.02	93		07/08/97	1339
		LCS	1.00	47.40	50.02	95		07/08/97	1437
		LCD	1.00	46.86	50.02	94		07/08/97	1536
971757-1			1.00	48.76	50.02	97		07/08/97	1634
971757-2			1.00	46.96	50.02	94		07/08/97	1732
971757-3			1.00	48.09	50.02	96		07/08/97	1830
971757-6			1.00	50.94	50.02	102		07/08/97	1928
971758-1			1.00	49.02	50.02	98		07/08/97	2026
971758-2			1.00	46.99	50.02	94		07/08/97	2123
971758-3			1.00	46.99	50.02	94		07/08/97	2220
971758-4			1.00	47.86	50.02	96		07/08/97	2317

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

CORELAB

CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/15/97

	WATER LIMITS Recovery	RPD	SOIL LIMITS Recovery	RPD
VOLATILE ORGANICS				
Methods 602/8020 Surrogate				
Bromofluorobenzene	89-110%		78-123%	
Methods 602/8020 Spike/Spike Duplicate				
Benzene	39-150%	25	75-125%	25
Ethylbenzene	32-160%	25	60-140%	25
Toluene	46-148%	25	70-130%	25
Xylenes	75-125%	25	61-139%	25
Method 8015 Mod. Spike/Spike Duplicate				
TVPH	75-125%	20	48-152%	20
TEPH	54-135%	20	54-135%	20
Methods 624/8240/8260 Surrogates				
Dibromofluoromethane	86-118%		80-120%	
Toluene-(d8)	88-110%		81-117%	
4-Bromofluorobenzene	86-115%		74-121%	
Method 524.2 Surrogates				
4-Bromofluorobenzene	80-120%			
1,4-Dichlorobenzene-d4	80-120%			
Methods 624/8240 Spike/Spike Duplicate				
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21
Method 8260 Spike/Spike Duplicate				
1,1-Dichloroethene	70-130%	14	70-130%	22
Trichloroethene	71-120%	14	70-130%	24
Benzene	76-127%	11	70-130%	21
Toluene	76-125%	13	70-130%	21
Chlorobenzene	75-130%	13	70-130%	21
Method 524.2 Spike/Spike Duplicate				
1,1-Dichloroethene	80-120%	14		
Trichloroethene	80-120%	14		
Benzene	80-120%	11		
Toluene	80-120%	13		
Chlorobenzene	80-120%	13		
PESTICIDES AND PCB'S				
Methods 608/8080 Surrogates				
Tetrachloro-m-xylene	60-150%		60-150%	
4,4'-Dichlorobiphenyl	60-150%		60-150%	
Decachlorobiphenyl	60-150%		60-150%	
Method 8140 Surrogates				
Tributylphosphate	36-152%		36-152%	
Triphenylphosphate	36-152%		36-152%	

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/15/97

	WATER LIMITS Recovery	RPD	SOIL LIMITS Recovery	RPD
SEMIVOLATILE ORGANICS				
Methods 625/8270 Surrogates				
Nitrobenzene-d5	35-114%		23-120%	
2-Fluorobiphenyl	43-116%		30-115%	
4-Terphenyl-d14	33-141%		18-137%	
Phenol-d6	10-94%		24-113%	
2-Fluorophenol	21-100%		25-121%	
2,4,6-Tribromophenol	10-123%		19-122%	
Methods 625/8270 Spike/Spike Duplicate				
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dintrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36
HERBICIDES				
Method 8150 Surrogate				
2,4-Dichlorophenylacetic acid	50-150%		50-150%	
Method 8150 Spike/Spike Duplicate				
2,4-D	41-126%	25	41-126%	25
2,4,5-T	45-119%	25	45-119%	25

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/15/97

(1) EPA 600/4-79-020 Methods for Chemical Analysis of Water and Wastes, March 1983

(2) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986

(3) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update I, July 1992

(4) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update II, September 1994

(5) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update IIA, August 1993

(6) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update IIB, January 1995

(7) Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

(8) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

(9) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992

(10) EPA 600/4-80-032 Prescribed Procedures For Measurement Of Radioactivity in Drinking Water, August 1980

(11) EPA 600/8-78-017 Microbiological Methods For Monitoring The Environment, December 1978

(12) Federal Register, July 1, 1990 (40 CFR Part 136)

(13) EPA 600/4-88-03 Methods For The Determination of Organics Compounds in Drinking Water, December 1988

(14) U.S.G.S. Methods For Determination of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985

(15) Federal Register, June 7, 1991 (40 CFR Parts 141 & 142)

(16) ASTM Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991

(17) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965

(18) ASTM Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal, and Coke

(19) EPA 600/2-78-054 Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978

(20) ASTM Part 19, Soils and Rocks; Building Stones, 1981

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/15/97

COMMENTS

a) ND = Not detected. NC = Not calculable due to value(s) lower than the detection limit.

b) Data in the QA report may differ from final results due to digestion and/or dilution of samples into analytical ranges. Quality control results are reported "as analyzed" within the instruments established calibration range.

c) The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis.

d) Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
EB	Extraction Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post-Digestion Spike
SB	Spike Blank
SBD	Spike Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

SUBCONTRACT LABORATORY	CODE
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Edison, NJ	* ED
Core Laboratories - Gulf States - Houston, TX	* HE
Core Laboratories - Houston, TX	* HP
Core Laboratories - Indianapolis, IN	* IN

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Core Laboratories - Tampa, FL	* TP
Core Laboratories - Valparaiso, IN	* VP
Other Subcontract Laboratories	* XX

EXPLANATION OF DATA QUALIFIERS - ORGANIC PARAMETERS

U - This qualifier indicates that the analyte was analyzed for but not detected.

J - This qualifier indicates that the value is an estimate. It is used when a compound is determined to be present based on the mass spectral data but at a concentration less than the practical quantitation limit of the method.

E - This qualifier indicates that a sample result is an estimate because the concentration exceeded the upper calibration range of the instrument.

EXPLANATION OF DATA QUALIFIERS - METALS & INORGANIC PARAMETERS

U - This qualifier indicates that the analyte was analyzed for but not detected.

B - This qualifier indicates that the analyte was detected at a level below the reporting limit but greater than or equal to the instrument detection limit.

EXPLANATION OF DATA FLAGS - ALL PARAMETERS

B - This flag indicates that an analyte is present in the method blank as well as in the sample. The client should consider this when evaluating the data.

E - This flag indicates the reported value is estimated due to sample matrix interference.

W - This flag indicates that a post-digestion spike for GFAA analysis is outside quality control limits.

X - This flag indicates that a surrogate recovery is outside quality control limits.

Y - This flag indicates a spike or spike duplicate recovery is outside quality control limits.

Z - This flag indicates a relative percent difference for a spike and spike duplicate is outside quality control limits.

* - This flag indicates a relative percent difference for a duplicate analysis is outside quality control limits.

^ - This flag indicates a percent recovery for a standard is outside quality control limits.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

ANALYTICAL REPORT

JOB NUMBER: 971758

Prepared For:

BDM International, Inc.
1801 Randolph Street SE
Albuquerque, NM 87106

Attention: Mike Selke

Date: 07/18/97

Linda L. Benkers
Signature

7-18-97
Date

Name: Linda L. Benkers

Title: QA/QC Coordinator

CORE LABORATORIES, INC.
10703 East Bethany Drive
Aurora, CO 80014

PHONE: (303) 751-1780
FAX: (303) 751-1784

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpreta tions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

BDM

BDM International, Inc.
1801 Randolph Road, SE
MS 10
Albuquerque, NM 87106
(505) 848-5000
FAX: (505) 848-5299

12262

Chain of Custody

Date 6-26-97 Page 1 Of 1

Lab Name Core Laboratories
Address 10703 E Bethany Dr.
Aurora, CO 80014
Telephone 800-972-2673

Samplers (SIGNATURES)
Dwayne Salisbury

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP- Vol., Semi-Vol. Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)					Number of Containers
9706261440	H_2O	MW-9s		X			X										X												5
9706261530	H_2O	downstream		X			X										X												5
9706261600	H_2O	upstream		X			X										X												5
9706261645	H_2O	MW-3s		X			X										X												5

NOTE: All 3 VOA vials for sample 9706261645 were broken in lab upon receipt.
L. Bunkers 7/2/97

Project Information		Sample Receipt	
Project	Rexene	Total No. of Containers	20
Project Director	M. Selke	Chain of Custody Seals	N
Charge Code No.	P/2345/2031/202	Rec'd Good Condition/Cold	Y
Shipping ID. No.	3519924730	Conforms to Record	Y
Via:	Fed Ex	Lab No.	971758

Special Instructions/Comments:
temp 5.1°c
Normal TAT, for questions contact Mike Selke @ 505-848-5289

Relinquished By	1.	Relinquished By	2.	Relinquished By	3.
(Signature)	(Time)	(Signature)	(Time)	(Signature)	(Time)
Dwayne Salisbury (Printed Name)	(Date)	(Printed Name)	(Date)	(Printed Name)	(Date)
BDM (Company)		(Company)		(Company)	
Received By	1.	**Received By**	2.	**Received By (Laboratory)**	3.
(Signature)	(Time)	(Signature)	(Time)	Michelle Weatherford (Signature)	(Time)
(Printed Name)	(Date)	(Printed Name)	(Date)	WEATHERFORD (Printed Name)	7/1/97 (Date)
(Company)		(Company)		CORE (Laboratory)	1430

Distribution: White, Canary-Laboratory • Pink, BDM

BDM

BDM International, Inc.
1801 Randolph Road, SE
MS 10
Albuquerque, NM 87106
(505) 848-5000
FAX: (505) 848-5299

12175

Chain of Custody

Date 7-11-97 Page 1 Of 1

Lab Name CORE LABORATORIES INC.
Address 10703 EAST BETHANY DR.
AURORA COLORADO 80014-2196
Telephone

Samplers (SIGNATURES)

Analysis Request

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020 BTEX	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080 BTEX	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP- Vol., Semi-Vol. Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)					Number of Containers
9707111400	H_2O	MW-35		3																									3
9707111430	H_2O	upstream		3																									3
9707111500	Trip blank																												1
																								Temp 3.5°C					

Project Information	
Project	REXENE
Project Director	Mike Selke
Charge Code No.	8/2345-3031-202
Shipping ID. No.	3532910463
Via:	FED-EX

Sample Receipt	
Total No. of Containers	17
Chain of Custody Seals	
Rec'd Good Condition/Cold	
Conforms to Record	
Lab No.	

Special Instructions/Comments:

	1.	2.	3.
Relinquished By	Lance Wilson 1600		
(Signature) (Time)			
(Printed Name) (Date)	LANCE WILSON 7-11-97		
(Company)	BDM		
Received By			
(Signature) (Time)			Janet Kelley 0850
(Printed Name) (Date)			Ann Kelley 7/15/97
(Company) (Laboratory)			Core Labs

Distribution: White, Canary-Laboratory • Pink, BDM

CORELAB

CORE LABORATORIES

SAMPLE INFORMATION
Date: 07/18/97

Job Number.: 971758
Customer ..: BDM International, Inc.
Attn.....: Mike Selke

Project Number.....: 95000161
Customer Project ID....: REXENE
Project Description....: BDM Rexene Quarterly Waters

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
971758-1	9706261440	Water	06/26/97	14:40	07/01/97	14:30
971758-2	9706261530	Water	06/26/97	15:30	07/01/97	14:30
971758-3	9706261600	Water	06/26/97	16:00	07/01/97	14:30
971758-4	9706261645	Water	06/26/97	16:45	07/01/97	14:30
971758-5	9707111400	Water	07/11/97	14:00	07/11/97	08:50
971758-6	9707111430	Water	07/11/97	14:30	07/11/97	08:50
971758-7	9707111500	Water	07/11/97	15:00	07/11/97	08:50

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

SAMPLE INFORMATION
Date: 01/16/98

Job Number.: 980052
Customer ..: BDM International, Inc.
Attn.....: Mike Selke

Project Number.....: 95000161
Customer Project ID....: REXENE
Project Description....: BDM Rexene Quarterly Waters

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
980052-1	9801081150 MW95	Water	01/08/98	11:50	01/09/98	09:30
980052-2	9801081205 MW10	Water	01/08/98	12:05	01/09/98	09:30
980052-3	9801081245 DOWNSTREAM	Water	01/08/98	12:45	01/09/98	09:30
980052-4	9801081400 MW6D	Water	01/08/98	14:00	01/09/98	09:30
980052-5	9801081445 MW6S	Water	01/08/98	14:45	01/09/98	09:30
980052-6	9801081530 MW3D	Water	01/08/98	15:30	01/09/98	09:30
980052-7	9801081545 MW3S	Water	01/08/98	15:45	01/09/98	09:30
980052-8	9801081600 RINSATE	Water	01/08/98	16:00	01/09/98	09:30
980052-9	9801081605 UPSTREAM	Water	01/08/98	16:05	01/09/98	09:30
980052-10	9801081615 TRIP BLANK	Water	01/08/98	16:15	01/09/98	09:30

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261440
Date Sampled.....: 06/26/97
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 971758-1
Date Received.....: 07/01/97
Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	0.02	0.01	mg/L	07/14/97	gag
EPA 200.7	Arsenic (As), Diss.	0.02	0.01	mg/L	07/14/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/14/97	gag
EPA 200.7	Cadmium (Cd), Diss.	<0.0005	0.0005	mg/L	07/14/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Copper (Cu), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.003	0.003	mg/L	07/14/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Selenium (Se), Diss.	0.03	0.01	mg/L	07/14/97	gag
EPA 200.7	Silver (Ag), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Zinc (Zn), Diss.	<0.005	0.005	mg/L	07/14/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261440
Date Sampled.....: 06/26/97
Time Sampled.....: 14:40
Sample Matrix.....: Water

Laboratory Sample ID: 971758-1
Date Received.....: 07/01/97
Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261530
Date Sampled.....: 06/26/97
Time Sampled.....: 15:30
Sample Matrix.....: Water

Laboratory Sample ID: 971758-2
Date Received.....: 07/01/97
Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Arsenic (As), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/14/97	gag
EPA 200.7	Cadmium (Cd), Diss.	<0.0005	0.0005	mg/L	07/14/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Copper (Cu), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.003	0.003	mg/L	07/14/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Selenium (Se), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Silver (Ag), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Zinc (Zn), Diss.	<0.005	0.005	mg/L	07/14/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261530
Date Sampled.....: 06/26/97
Time Sampled.....: 15:30
Sample Matrix.....: Water

Laboratory Sample ID: 971758-2
Date Received.....: 07/01/97
Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/07/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/07/97	vdt
	Toluene	ND	0.5	ug/L	07/07/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/07/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261600
Date Sampled.....: 06/26/97
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 971758-3
Date Received.....: 07/01/97
Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Arsenic (As), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/14/97	gag
EPA 200.7	Cadmium (Cd), Diss.	<0.0005	0.0005	mg/L	07/14/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Copper (Cu), Diss.	0.010	0.005	mg/L	07/14/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.003	0.003	mg/L	07/14/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Selenium (Se), Diss.	0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Silver (Ag), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Zinc (Zn), Diss.	0.009	0.005	mg/L	07/14/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9706261645
Date Sampled.....: 06/26/97
Time Sampled.....: 16:45
Sample Matrix.....: Water

Laboratory Sample ID: 971758-4
Date Received.....: 07/01/97
Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 200.7	Antimony (Sb), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Arsenic (As), Diss.	0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Beryllium (Be), Diss.	<0.001	0.001	mg/L	07/14/97	gag
EPA 200.7	Cadmium (Cd), Diss.	<0.0005	0.0005	mg/L	07/14/97	gag
EPA 200.7	Chromium (Cr), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Copper (Cu), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Lead (Pb), Diss.	<0.02	0.02	mg/L	07/14/97	gag
EPA 245.2	Mercury (Hg), Diss.	<0.0002	0.0002	mg/L	07/10/97	veb
EPA 200.7	Nickel (Ni), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Selenium (Se), Diss.	0.02	0.01	mg/L	07/14/97	gag
EPA 200.7	Silver (Ag), Diss.	<0.005	0.005	mg/L	07/14/97	gag
EPA 200.7	Thallium (Tl), Diss.	<0.01	0.01	mg/L	07/14/97	gag
EPA 200.7	Zinc (Zn), Diss.	0.013	0.005	mg/L	07/14/97	gag
SW-846 3510B	Extraction (Sep. Funnel) SVOC					
	Separatory Funnel Liq/Liq Extraction	Complete			07/03/97	rwm
SW-846 8270	Semivolatile Organics (Client List)					
	Acenaphthene	ND	10	ug/L	07/08/97	dmj
	Acenaphthylene	ND	10	ug/L	07/08/97	dmj
	Anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)anthracene	ND	10	ug/L	07/08/97	dmj
	Benzo(b)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(k)fluoranthene	ND	10	ug/L	07/08/97	dmj
	Benzo(ghi)perylene	ND	10	ug/L	07/08/97	dmj
	Benzo(a)pyrene	ND	10	ug/L	07/08/97	dmj
	Chrysene	ND	10	ug/L	07/08/97	dmj
	Dibenzo(a,h)anthracene	ND	10	ug/L	07/08/97	dmj
	Fluoranthene	ND	10	ug/L	07/08/97	dmj
	Fluorene	ND	10	ug/L	07/08/97	dmj
	Indeno(1,2,3-cd)pyrene	ND	10	ug/L	07/08/97	dmj
	1-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	2-Methylnaphthalene	ND	10	ug/L	07/08/97	dmj
	Naphthalene	ND	10	ug/L	07/08/97	dmj
	Phenanthrene	ND	10	ug/L	07/08/97	dmj
	Pyrene	ND	10	ug/L	07/08/97	dmj

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9707111400
Date Sampled.....: 07/11/97
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 971758-5
Date Received.....: 07/11/97
Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/15/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/15/97	vdt
	Toluene	ND	0.5	ug/L	07/15/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/15/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9707111430
Date Sampled.....: 07/11/97
Time Sampled.....: 14:30
Sample Matrix.....: Water

Laboratory Sample ID: 971758-6
Date Received.....: 07/11/97
Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/15/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/15/97	vdt
	Toluene	ND	0.5	ug/L	07/15/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/15/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9707111500
Date Sampled.....: 07/11/97
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 971758-7
Date Received.....: 07/11/97
Time Received.....: 08:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	07/15/97	vdt
	Ethylbenzene	ND	0.5	ug/L	07/15/97	vdt
	Toluene	ND	0.5	ug/L	07/15/97	vdt
	Xylenes (total)	ND	0.5	ug/L	07/15/97	vdt

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 245.2 Batch.....: 23538 Analyst...: veb
Method Description.: Mercury (CVAA) Units.....: mg/L
Parameter.....: Mercury (Hg)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970701H	0.003603		0.004000		90.1	%	90-110	07/10/97 1106
ICB		07107	-0.000001						0.0002	07/10/97 1108
MB		0709	0.000017						0.0002	07/10/97 1111
SB		970529M	0.004462		0.005000		89.2	%	75-125	07/10/97 1113
MS	971760-1	970529M	0.004295		0.005000	0.000024	85.4	%	80-120	07/10/97 1119
MD	971760-1		0.000021			0.000024	0.000003	A	0.00020000	07/10/97 1121
MB		0709	0.000010						0.0002	07/10/97 1125
SB		970529M	0.004953		0.005000		99.1	%	75-125	07/10/97 1127
CCV		960930N	0.005211		0.005000		104.2	%	90-110	07/10/97 1132
CCB		07107	-0.000001						0.0002	07/10/97 1134
MS	971757-1	970529M	0.004087		0.005000	0.000086	80.0	%	80-120	07/10/97 1136
MSD	971757-1	970529M	0.004093	0.004087	0.005000	0.000086	80.1	%	80-120	07/10/97 1138
							0.1	R	20	
MD	971757-6		0.000022			0.000035	0.000013	A	0.00020000	07/10/97 1146
CCV		960930N	0.005214		0.005000		104.3	%	90-110	07/10/97 1157
CCB		07107	-0.000002						0.0002	07/10/97 1159
CCV		960930N	0.005057		0.005000		101.2	%	90-110	07/10/97 1223
CCB		07107	0.000145						0.0002	07/10/97 1225
SB		970529M	0.004313		0.005000		86.3	%	75-125	07/10/97 1227
EB		0707	0.000121						0.0002	07/10/97 1229
ED	971620-1		0.000088			0.000108	0.000019	A	0.00020000	07/10/97 1233
MD	971620-2		0.000059			0.000063	0.000003	A	0.00020000	07/10/97 1239
MB		0709	0.000028						0.0002	07/10/97 1246
CCV		960930N	0.005156		0.005000		103.1	%	90-110	07/10/97 1248
CCB		07107	0.000068						0.0002	07/10/97 1250
SB		970529M	0.004967		0.005000		99.3	%	75-125	07/10/97 1252
LCS		970353	0.004338		0.005130		84.6	%	67.8-132.2	07/10/97 1254
CCV		960930N	0.005178		0.005000		103.6	%	90-110	07/10/97 1307
CCB		07107	0.000058						0.0002	07/10/97 1309
MS	971758-1	970529M	0.004575		0.005000	0.000011	91.3	%	80-120	07/10/97 1330
CCV		960930N	0.005200		0.005000		104.0	%	90-110	07/10/97 1345
CCB		07107	0.000129						0.0002	07/10/97 1347
MSD	971758-1	970529M	0.004600	0.004575	0.005000	0.000011	91.8	%	80-120	07/10/97 1402
							0.6	R	20	
CCV		960930N	0.005158		0.005000		103.2	%	90-110	07/10/97 1412
CCB		07107	0.000067						0.0002	07/10/97 1431
CCV		960930N	0.005202		0.005000		104.1	%	90-110	07/10/97 1437
CCB		07107	0.000054						0.0002	07/10/97 1439

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Antimony (Sb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.93854		2.00		96.9	%	95-105	07/14/97 0856
ICB		970714T	-0.00072						0.01	07/14/97 0914
ISB		970708X	0.95269		1.000		95.3	%	80-120	07/14/97 0924
ISB		970701WW	0.81108		1.000		81.1	%	80-120	07/14/97 0952
MD	971758-2		0.00286			0.00112	0.00174	A	0.01000	07/14/97 1019
PDS	971758-3	970630Z	0.99570		1.000	0.00244	99.3	%	75-125	07/14/97 1035
CCV		970513T	2.50075		2.5		100.0	%	95-105	07/14/97 1126

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Antimony (Sb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
CCB		970714T	-0.00101						0.01	07/14/97 1133
PDS	971770-1	970630Z	0.98816		1.000	0.00114	98.7	%	75-125	07/14/97 1259
CCV		970513T	2.46678		2.5		98.7	%	95-105	07/14/97 1344
CCB		970714T	-0.00050						0.01	07/14/97 1352
PDS	971822-3	970630Z	0.94623		1.000	0.00710	93.9	%	75-125	07/14/97 1430
MD	971812-1		0.00199			0.00435	0.00236	A	0.01000	07/14/97 1440
CCV		970513T	2.53998		2.5		101.6	%	95-105	07/14/97 1504
CCB		970714T	-0.00172						0.01	07/14/97 1516
MD	971841-3		0.00006			-0.00177	0.00183	A	0.01000	07/14/97 1547
PDS	971841-3	970630Z	0.97431		1.000	-0.00177	97.6	%	75-125	07/14/97 1553
CCV		970513T	2.51007		2.5		100.4	%	95-105	07/14/97 1616
CCB		970714T	-0.00045						0.01	07/14/97 1622
CCV		970513T	2.46798		2.5		98.7	%	95-105	07/14/97 1715
CCB		970714T	-0.00149						0.01	07/14/97 1723
MB		0711	0.00393						0.01	07/14/97 1744
LCS		970709H	0.97605		1.00		97.6	%	80-120	07/14/97 1747
LCD		970709H	0.99642	0.97605	1.00		99.6	%	80-120	07/14/97 1750
							2.1	R	20	
CCV		970513T	2.55296		2.5		102.1	%	95-105	07/14/97 1812
CCB		970714T	0.00038						0.01	07/14/97 1821
CCV		970513T	2.50940		2.5		100.4	%	95-105	07/14/97 1919
CCB		970714T	-0.00223						0.01	07/14/97 1921
ISB		970708X	0.99769		1.000		99.8	%	80-120	07/14/97 1950
CCV		970513T	2.44386		2.5		97.8	%	95-105	07/14/97 2008
CCB		970714T	-0.00064						0.01	07/14/97 2017
ISB		970701WW	0.96895		1.000		96.9	%	80-120	07/14/97 2026
CCV		970513T	2.38645		2.5		95.5	%	95-105	07/14/97 2039
CCB		970714T	-0.00060						0.01	07/14/97 2047
ISB		970701WW	0.98825		1.000		98.8	%	80-120	07/14/97 2051
CCV		970513T	2.43780		2.5		97.5	%	95-105	07/14/97 2100
CCB		970714T	-0.00240						0.01	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.97770		2.00		98.9	%	95-105	07/14/97 0856
ICB		970714T	0.00108						0.01	07/14/97 0914
ISB		970708X	0.91489		1.000		91.5	%	80-120	07/14/97 0924
ISB		970701WW	1.03869		1.000		103.9	%	80-120	07/14/97 0952
MD	971758-2		0.00834			0.00676	0.00158	A	0.01000	07/14/97 1019
PDS	971758-3	970630Z	0.98205		1.000	0.00785	97.4	%	75-125	07/14/97 1035
CCV		970513T	2.50736		2.5		100.3	%	95-105	07/14/97 1126
CCB		970714T	-0.00113						0.01	07/14/97 1133
PDS	971770-1	970630Z	0.97372		1.000	0.00106	97.3	%	75-125	07/14/97 1259
CCV		970513T	2.46078		2.5		98.4	%	95-105	07/14/97 1344
CCB		970714T	0.00075						0.01	07/14/97 1352
PDS	971822-3	970630Z	1.01102		1.000	0.01877	99.2	%	75-125	07/14/97 1430
MD	971812-1		0.00803			0.00651	0.00152	A	0.01000	07/14/97 1440
CCV		970513T	2.55161		2.5		102.1	%	95-105	07/14/97 1504

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Arsenic (As)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
CCB		970714T	0.00132						0.01	07/14/97 1516
MD	971841-3		0.00516			0.00073	0.00443	A	0.01000	07/14/97 1547
PDS	971841-3	970630Z	0.95529		1.000	0.00073	95.5	%	75-125	07/14/97 1553
CCV		970513T	2.47661		2.5		99.1	%	95-105	07/14/97 1616
CCB		970714T	0.00166						0.01	07/14/97 1622
CCV		970513T	2.46832		2.5		98.7	%	95-105	07/14/97 1715
CCB		970714T	0.00157						0.01	07/14/97 1723
MB		0711	0.00104						0.01	07/14/97 1744
LCS		970709H	0.98748		1.00		98.7	%	80-120	07/14/97 1747
LCD		970709H	1.00456	0.98748	1.00		100.5	%	80-120	07/14/97 1750
							1.7	R	20	
CCV		970513T	2.56310		2.5		102.5	%	95-105	07/14/97 1812
CCB		970714T	0.00183						0.01	07/14/97 1821
CCV		970513T	2.56954		2.5		102.8	%	95-105	07/14/97 1919
CCB		970714T	0.00116						0.01	07/14/97 1921
ISB		970708X	0.99667		1.000		99.7	%	80-120	07/14/97 1950
CCV		970513T	2.44702		2.5		97.9	%	95-105	07/14/97 2008
CCB		970714T	-0.00031						0.01	07/14/97 2017
ISB		970701WW	0.92192		1.000		92.2	%	80-120	07/14/97 2026
CCV		970513T	2.44469		2.5		97.8	%	95-105	07/14/97 2039
CCB		970714T	0.00022						0.01	07/14/97 2047
ISB		970701WW	0.94418		1.000		94.4	%	80-120	07/14/97 2051
CCV		970513T	2.48235		2.5		99.3	%	95-105	07/14/97 2100
CCB		970714T	0.00270						0.01	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Beryllium (Be)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	2.00012		2.00		100.0	%	95-105	07/14/97 0856
ICB		970714T	0.00009						0.001	07/14/97 0914
ISB		970708X	0.47023		0.5000		94.0	%	80-120	07/14/97 0924
ISB		970701WW	0.98311		1.000		98.3	%	80-120	07/14/97 0952
MD	971758-2		0.00055			0.00055	0.00000	A	0.00100	07/14/97 1019
PDS	971758-3	970630Z	0.99599		1.000	0.00061	99.5	%	75-125	07/14/97 1035
CCV		970513T	2.44569		2.5		97.8	%	95-105	07/14/97 1126
CCB		970714T	0.00002						0.001	07/14/97 1133
PDS	971770-1	970630Z	0.98600		1.000	0.00000	98.6	%	75-125	07/14/97 1259
CCV		970513T	2.54026		2.5		101.6	%	95-105	07/14/97 1344
CCB		970714T	-0.00000						0.001	07/14/97 1352
PDS	971822-3	970630Z	1.02271		1.000	0.00029	102.2	%	75-125	07/14/97 1430
MD	971812-1		0.00048			0.00060	0.00012	A	0.00100	07/14/97 1440
CCV		970513T	2.57561		2.5		103.0	%	95-105	07/14/97 1504
CCB		970714T	0.00017						0.001	07/14/97 1516
MD	971841-3		0.00019			0.00014	0.00005	A	0.00100	07/14/97 1547
PDS	971841-3	970630Z	0.94724		1.000	0.00014	94.7	%	75-125	07/14/97 1553
CCV		970513T	2.50934		2.5		100.4	%	95-105	07/14/97 1616
CCB		970714T	0.00030						0.001	07/14/97 1622
CCV		970513T	2.59549		2.5		103.8	%	95-105	07/14/97 1715
CCB		970714T	0.00015						0.001	07/14/97 1723

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Beryllium (Be)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
MB		0711	0.00004						0.001	07/14/97 1744
LCS		970709H	1.05560		1.00		105.6	%	80-120	07/14/97 1747
LCD		970709H	1.07568	1.05560	1.00		107.6	%	80-120	07/14/97 1750
							1.9	R	20	
CCV		970513T	2.51279		2.5		100.5	%	95-105	07/14/97 1812
CCB		970714T	0.00019						0.001	07/14/97 1821
CCV		970513T	2.52372		2.5		100.9	%	95-105	07/14/97 1919
CCB		970714T	0.00024						0.001	07/14/97 1921
ISB		970708X	0.51463		0.5000		102.9	%	80-120	07/14/97 1950
CCV		970513T	2.53601		2.5		101.4	%	95-105	07/14/97 2008
CCB		970714T	0.00021						0.001	07/14/97 2017
ISB		970701WW	0.92595		1.000		92.6	%	80-120	07/14/97 2026
CCV		970513T	2.53017		2.5		101.2	%	95-105	07/14/97 2039
CCB		970714T	0.00015						0.001	07/14/97 2047
ISB		970701WW	0.94488		1.000		94.5	%	80-120	07/14/97 2051
CCV		970513T	2.56493		2.5		102.6	%	95-105	07/14/97 2100
CCB		970714T	0.00023						0.001	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.99332		2.00		99.7	%	95-105	07/14/97 0856
ICB		970714T	-0.00039						0.0006	07/14/97 0914
ISB		970708X	0.86419		1.000		86.4	%	80-120	07/14/97 0924
ISB		970701WW	0.95285		1.000		95.3	%	80-120	07/14/97 0952
MD	971758-2		-0.00057			-0.00058	0.00001	A	0.00060	07/14/97 1019
PDS	971758-3	970630Z	0.93900		1.000	-0.00051	94.0	%	75-125	07/14/97 1035
CCV		970513T	1.01603		1.0		101.6	%	95-105	07/14/97 1126
CCB		970714T	-0.00028						0.0006	07/14/97 1133
PDS	971770-1	970630Z	0.94116		1.000	-0.00102	94.2	%	75-125	07/14/97 1259
MB		0710	-0.00015						0.0006	07/14/97 1316
LCS		970709H	1.15719		1.00		115.7	%	80-120	07/14/97 1322
MD	971815-1		0.00444			0.00457	2.9	R	20	07/14/97 1331
CCV		970513T	1.00230		1.0		100.2	%	95-105	07/14/97 1344
CCB		970714T	-0.00024						0.0006	07/14/97 1352
MS	971816-1	970630Z	1.11175		1.000	-0.00062	111.2	%	80-120	07/14/97 1410
PDS	971822-3	970630Z	1.08237		1.000	0.00312	107.9	%	75-125	07/14/97 1430
MD	971812-1		-0.00196			-0.00160	0.00036	A	0.00060	07/14/97 1440
CCV		970513T	1.01716		1.0		101.7	%	95-105	07/14/97 1504
CCB		970714T	-0.00032						0.0006	07/14/97 1516
MD	971841-3		-0.00028			-0.00045	0.00017	A	0.00060	07/14/97 1547
PDS	971841-3	970630Z	0.89111		1.000	-0.00045	89.2	%	75-125	07/14/97 1553
CCV		970513T	0.96547		1.0		96.5	%	95-105	07/14/97 1616
CCB		970714T	-0.00017						0.0006	07/14/97 1622
CCV		970513T	1.00667		1.0		100.7	%	95-105	07/14/97 1715
CCB		970714T	-0.00019						0.0006	07/14/97 1723
MB		0711	0.00003						0.0006	07/14/97 1744
LCS		970709H	1.04504		1.00		104.5	%	80-120	07/14/97 1747

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Cadmium (Cd)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
LCD		970709H	1.06197	1.04504	1.00		106.2	%	80-120	07/14/97 1750
							1.6	R	20	
CCV		970513T	1.04093		1.0		104.1	%	95-105	07/14/97 1812
CCB		970714T	0.00007						0.0006	07/14/97 1821
CCV		970513T	1.03584		1.0		103.6	%	95-105	07/14/97 1919
CCB		970714T	-0.00033						0.0006	07/14/97 1921
ISB		970708X	0.96716		1.000		96.7	%	80-120	07/14/97 1950
CCV		970513T	0.99913		1.0		99.9	%	95-105	07/14/97 2008
CCB		970714T	0.00009						0.0006	07/14/97 2017
ISB		970701WW	0.90053		1.000		90.1	%	80-120	07/14/97 2026
CCV		970513T	0.99511		1.0		99.5	%	95-105	07/14/97 2039
CCB		970714T	-0.00020						0.0006	07/14/97 2047
ISB		970701WW	0.92001		1.000		92.0	%	80-120	07/14/97 2051
CCV		970513T	1.00612		1.0		100.6	%	95-105	07/14/97 2100
CCB		970714T	-0.00021						0.0006	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.97351		2.00		98.7	%	95-105	07/14/97 0856
ICB		970714T	-0.00040						0.005	07/14/97 0914
ISB		970708X	0.44944		0.5000		89.9	%	80-120	07/14/97 0924
ISA		970618W	48.37523		50.000000		96.8	%	80-120	07/14/97 0937
ISB		970701WW	44.44430		51.00		87.1	%	80-120	07/14/97 0952
MD	971758-2		0.00114			0.00091	0.00023	A	0.00500	07/14/97 1019
PDS	971758-3	970630Z	0.92810		1.000	0.00106	92.7	%	75-125	07/14/97 1035
CCV		970513T	2.53506		2.5		101.4	%	95-105	07/14/97 1126
CCB		970714T	0.00033						0.005	07/14/97 1133
PDS	971770-1	970630Z	0.93359		1.000	-0.00098	93.5	%	75-125	07/14/97 1259
CCV		970513T	2.48323		2.5		99.3	%	95-105	07/14/97 1344
CCB		970714T	0.00049						0.005	07/14/97 1352
PDS	971822-3	970630Z	1.00546		1.000	0.00003	100.5	%	75-125	07/14/97 1430
MD	971812-1		0.00099			0.00031	0.00068	A	0.00500	07/14/97 1440
CCV		970513T	2.54625		2.5		101.8	%	95-105	07/14/97 1504
CCB		970714T	-0.00011						0.005	07/14/97 1516
MD	971841-3		0.00097			-0.00067	0.00164	A	0.00500	07/14/97 1547
PDS	971841-3	970630Z	0.89308		1.000	-0.00067	89.4	%	75-125	07/14/97 1553
CCV		970513T	2.46141		2.5		98.5	%	95-105	07/14/97 1616
CCB		970714T	0.00033						0.005	07/14/97 1622
CCV		970513T	2.48948		2.5		99.6	%	95-105	07/14/97 1715
CCB		970714T	-0.00011						0.005	07/14/97 1723
MB		0711	0.00028						0.005	07/14/97 1744
LCS		970709H	1.05557		1.00		105.6	%	80-120	07/14/97 1747
LCD		970709H	1.07275	1.05557	1.00		107.3	%	80-120	07/14/97 1750
							1.6	R	20	
CCV		970513T	2.57889		2.5		103.2	%	95-105	07/14/97 1812
CCB		970714T	0.00037						0.005	07/14/97 1821
CCV		970513T	2.56754		2.5		102.7	%	95-105	07/14/97 1919
CCB		970714T	0.00066						0.005	07/14/97 1921

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Chromium (Cr)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ISB		970708X	0.49230		0.5000		98.5	%	80-120	07/14/97 1950
CCV		970513T	2.48846		2.5		99.5	%	95-105	07/14/97 2008
CCB		970714T	0.00038						0.005	07/14/97 2017
ISA		970618W	47.76492		50.000000		95.5	%	80-120	07/14/97 2020
ISB		970701WW	42.88175		51.00		84.1	%	80-120	07/14/97 2026
CCV		970513T	2.46354		2.5		98.5	%	95-105	07/14/97 2039
CCB		970714T	0.00014						0.005	07/14/97 2047
ISB		970701WW	43.58773		51.00		85.5	%	80-120	07/14/97 2051
CCV		970513T	2.48858		2.5		99.5	%	95-105	07/14/97 2100
CCB		970714T	0.00019						0.005	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.90615		2.00		95.3	%	95-105	07/14/97 0856
ICB		970714T	-0.00054						0.005	07/14/97 0914
ISB		970708X	0.47639		0.5000		95.3	%	80-120	07/14/97 0924
ISA		970618W	47.52188		50.000000		95.0	%	80-120	07/14/97 0937
ISB		970701WW	44.38543		51.00		87.0	%	80-120	07/14/97 0952
MD	971758-2		-0.00082			-0.00085	0.00003	A	0.00500	07/14/97 1019
PDS	971758-3	970630Z	0.93329		1.000	0.00965	92.4	%	75-125	07/14/97 1035
CCV		970513T	2.56477		2.5		102.6	%	95-105	07/14/97 1126
CCB		970714T	0.00073						0.005	07/14/97 1133
PDS	971770-1	970630Z	0.92466		1.000	-0.00117	92.6	%	75-125	07/14/97 1259
MB		0710	0.00090						0.005	07/14/97 1316
LCS		970709H	1.07367		1.000		107.4	%	80-120	07/14/97 1322
MD	971815-1		0.25709			0.25871	0.6	R	20	07/14/97 1331
CCV		970513T	2.51461		2.5		100.6	%	95-105	07/14/97 1344
CCB		970714T	0.00048						0.005	07/14/97 1352
MS	971816-1	970630Z	0.83697		1.000	0.00040	83.7	%	80-120	07/14/97 1410
PDS	971822-3	970630Z	0.80700		1.000	0.00951	79.7	%	75-125	07/14/97 1430
MD	971812-1		-0.00270			-0.00238	0.00032	A	0.00500	07/14/97 1440
CCV		970513T	2.54457		2.5		101.8	%	95-105	07/14/97 1504
CCB		970714T	-0.00065						0.005	07/14/97 1516
MD	971841-3		-0.00040			-0.00185	0.00145	A	0.00500	07/14/97 1547
PDS	971841-3	970630Z	0.85908		1.000	-0.00185	86.1	%	75-125	07/14/97 1553
CCV		970513T	2.52830		2.5		101.1	%	95-105	07/14/97 1616
CCB		970714T	-0.00040						0.005	07/14/97 1622
CCV		970513T	2.51349		2.5		100.5	%	95-105	07/14/97 1715
CCB		970714T	-0.00028						0.005	07/14/97 1723
MB		0711	0.00032						0.005	07/14/97 1744
LCS		970709H	1.04868		1.000		104.9	%	80-120	07/14/97 1747
LCD		970709H	1.06536	1.04868	1.000		106.5	%	80-120	07/14/97 1750
							1.6	R	20	
CCV		970513T	2.61158		2.5		104.5	%	95-105	07/14/97 1812
CCB		970714T	-0.00056						0.005	07/14/97 1821
CCV		970513T	2.60286		2.5		104.1	%	95-105	07/14/97 1919
CCB		970714T	-0.00077						0.005	07/14/97 1921
ISB		970708X	0.45484		0.5000		91.0	%	80-120	07/14/97 1950

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Copper (Cu)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
CCV		970513T	2.53698		2.5		101.5	%	95-105	07/14/97 2008
CCB		970714T	0.00005						0.005	07/14/97 2017
ISA		970618W	49.02013		50.000000		98.0	%	80-120	07/14/97 2020
ISB		970701WW	42.23815		51.00		82.8	%	80-120	07/14/97 2026
CCV		970513T	2.51258		2.5		100.5	%	95-105	07/14/97 2039
CCB		970714T	0.00015						0.005	07/14/97 2047
ISB		970701WW	43.11235		51.00		84.5	%	80-120	07/14/97 2051
CCV		970513T	2.54127		2.5		101.7	%	95-105	07/14/97 2100
CCB		970714T	0.00071						0.005	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.95178		2.00		97.6	%	95-105	07/14/97 0856
ICB		970714T	0.00093						0.003	07/14/97 0914
ISB		970708X	0.88183		1.000		88.2	%	80-120	07/14/97 0924
ISB		970701WW	0.94056		1.000		94.1	%	80-120	07/14/97 0952
MD	971758-2		0.00049			-0.00104	0.00153	A	0.00300	07/14/97 1019
PDS	971758-3	970630Z	0.93052		1.000	-0.00000	93.1	%	75-125	07/14/97 1035
CCV		970513T	1.00851		1.0		100.9	%	95-105	07/14/97 1126
CCB		970714T	0.00046						0.003	07/14/97 1133
PDS	971770-1	970630Z	0.93158		1.000	0.00192	93.0	%	75-125	07/14/97 1259
MB		0710	0.00151						0.003	07/14/97 1316
LCS		970709H	1.13239		1.00		113.2	%	80-120	07/14/97 1322
CCV		970513T	0.99082		1.0		99.1	%	95-105	07/14/97 1344
CCB		970714T	0.00223						0.003	07/14/97 1352
MD	971815-1		0.00158			0.00055	0.00103	A	0.00300	07/14/97 1402
MS	971816-1	970630Z	1.11146		1.000	-0.00429	111.6	%	80-120	07/14/97 1410
PDS	971822-3	970630Z	1.07338		1.000	0.00424	106.9	%	75-125	07/14/97 1430
MD	971812-1		0.00072			0.00027	0.00045	A	0.00300	07/14/97 1440
CCV		970513T	1.00960		1.0		101.0	%	95-105	07/14/97 1504
CCB		970714T	0.00076						0.003	07/14/97 1516
MD	971841-3		0.00233			0.00127	0.00106	A	0.00300	07/14/97 1547
PDS	971841-3	970630Z	0.86114		1.000	0.00127	86.0	%	75-125	07/14/97 1553
CCV		970513T	0.95081		1.0		95.1	%	95-105	07/14/97 1616
CCB		970714T	0.00251						0.003	07/14/97 1622
CCV		970513T	0.99817		1.0		99.8	%	95-105	07/14/97 1715
CCB		970714T	0.00078						0.003	07/14/97 1723
MB		0711	0.00239						0.003	07/14/97 1744
LCS		970709H	1.03659		1.00		103.7	%	80-120	07/14/97 1747
LCD		970709H	1.05971	1.03659	1.00		106.0	%	80-120	07/14/97 1750
							2.2	R	20	
CCV		970513T	1.03209		1.0		103.2	%	95-105	07/14/97 1812
CCB		970714T	0.00170						0.003	07/14/97 1821
CCV		970513T	1.02344		1.0		102.3	%	95-105	07/14/97 1919
CCB		970714T	0.00182						0.003	07/14/97 1921
ISB		970708X	0.95299		1.000		95.3	%	80-120	07/14/97 1950
CCV		970513T	0.99485		1.0		99.5	%	95-105	07/14/97 2008
CCB		970714T	0.00200						0.003	07/14/97 2017

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Lead (Pb)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ISB		970701WW	0.87524		1.000		87.5	%	80-120	07/14/97 2026
CCV		970513T	0.98626		1.0		98.6	%	95-105	07/14/97 2039
CCB		970714T	0.00197						0.003	07/14/97 2047
ISB		970701WW	0.89569		1.000		89.6	%	80-120	07/14/97 2051
CCV		970513T	1.00169		1.0		100.2	%	95-105	07/14/97 2100
CCB		970714T	0.00152						0.003	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	2.00885		2.00		100.4	%	95-105	07/14/97 0856
ICB		970714T	-0.00072						0.005	07/14/97 0914
ISB		970708X	0.84887		1.000		84.9	%	80-120	07/14/97 0924
ISA		970618W	50.71559		50.000000		101.4	%	80-120	07/14/97 0937
ISB		970701WW	47.06034		51.00		92.3	%	80-120	07/14/97 0952
MD	971758-2		0.00110			0.00042	0.00068	A	0.00500	07/14/97 1019
PDS	971758-3	970630Z	0.91119		1.000	0.00352	90.8	%	75-125	07/14/97 1035
CCV		970513T	2.56017		2.5		102.4	%	95-105	07/14/97 1126
CCB		970714T	0.00021						0.005	07/14/97 1133
PDS	971770-1	970630Z	0.90344		1.000	-0.00041	90.4	%	75-125	07/14/97 1259
CCV		970513T	2.49491		2.5		99.8	%	95-105	07/14/97 1344
CCB		970714T	0.00031						0.005	07/14/97 1352
PDS	971822-3	970630Z	1.15156		1.000	0.21952	93.2	%	75-125	07/14/97 1430
MD	971812-1		0.04403			0.04446	1.0	R	20	07/14/97 1440
CCV		970513T	2.58543		2.5		103.4	%	95-105	07/14/97 1504
CCB		970714T	-0.00076						0.005	07/14/97 1516
MD	971841-3		0.00103			0.00016	0.00087	A	0.00500	07/14/97 1547
PDS	971841-3	970630Z	0.85965		1.000	0.00016	85.9	%	75-125	07/14/97 1553
CCV		970513T	2.46101		2.5		98.4	%	95-105	07/14/97 1616
CCB		970714T	0.00045						0.005	07/14/97 1622
CCV		970513T	2.53894		2.5		101.6	%	95-105	07/14/97 1715
CCB		970714T	0.00064						0.005	07/14/97 1723
MB		0711	0.00106						0.005	07/14/97 1744
LCS		970709H	1.05513		1.00		105.5	%	80-120	07/14/97 1747
LCD		970709H	1.07493	1.05513	1.00		107.5	%	80-120	07/14/97 1750
							1.9	R	20	
CCV		970513T	2.61284		2.5		104.5	%	95-105	07/14/97 1812
CCB		970714T	0.00015						0.005	07/14/97 1821
CCV		970513T	2.60725		2.5		104.3	%	95-105	07/14/97 1919
CCB		970714T	-0.00000						0.005	07/14/97 1921
ISB		970708X	0.89952		1.000		90.0	%	80-120	07/14/97 1950
CCV		970513T	2.51482		2.5		100.6	%	95-105	07/14/97 2008
CCB		970714T	-0.00012						0.005	07/14/97 2017
ISA		970618W	48.08852		50.000000		96.2	%	80-120	07/14/97 2020
ISB		970701WW	43.53677		51.00		85.4	%	80-120	07/14/97 2026
CCV		970513T	2.58168		2.5		103.3	%	95-105	07/14/97 2039
CCB		970714T	-0.00042						0.005	07/14/97 2047
ISB		970701WW	44.60795		51.00		87.5	%	80-120	07/14/97 2051
CCV		970513T	2.42516		2.5		97.0	%	95-105	07/14/97 2100

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Nickel (Ni)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
CCB		970714T	0.00126						0.005	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Selenium (Se)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.96765		2.00		98.4	%	95-105	07/14/97 0856
ICB		970714T	0.00133						0.01	07/14/97 0914
ISB		970708X	0.92686		1.000		92.7	%	80-120	07/14/97 0924
ISB		970701WW	0.95721		1.000		95.7	%	80-120	07/14/97 0952
MD	971758-2		0.00949			0.00498	0.00451	A	0.01000	07/14/97 1019
PDS	971758-3	970630Z	1.00196		1.000	0.01122	99.1	%	75-125	07/14/97 1035
CCV		970513T	2.47869		2.5		99.1	%	95-105	07/14/97 1126
CCB		970714T	0.00318						0.01	07/14/97 1133
PDS	971770-1	970630Z	1.00408		1.000	0.00585	99.8	%	75-125	07/14/97 1259
CCV		970513T	2.43801		2.5		97.5	%	95-105	07/14/97 1344
CCB		970714T	0.00737						0.01	07/14/97 1352
PDS	971822-3	970630Z	1.03005		1.000	0.01946	101.1	%	75-125	07/14/97 1430
MD	971812-1		0.00697			0.00915	0.00218	A	0.01000	07/14/97 1440
CCV		970513T	2.52969		2.5		101.2	%	95-105	07/14/97 1504
CCB		970714T	0.00580						0.01	07/14/97 1516
MD	971841-3		0.01002			0.01008	0.00006	A	0.01000	07/14/97 1547
PDS	971841-3	970630Z	0.98247		1.000	0.01008	97.2	%	75-125	07/14/97 1553
CCV		970513T	2.45278		2.5		98.1	%	95-105	07/14/97 1616
CCB		970714T	0.00720						0.01	07/14/97 1622
CCV		970513T	2.46263		2.5		98.5	%	95-105	07/14/97 1715
CCB		970714T	0.00732						0.01	07/14/97 1723
MB		0711	0.00312						0.01	07/14/97 1744
LCS		970709H	0.89011		1.00		89.0	%	80-120	07/14/97 1747
LCD		970709H	0.91609	0.89011	1.00		91.6	%	80-120	07/14/97 1750
							2.9	R	20	
CCV		970513T	2.55418		2.5		102.2	%	95-105	07/14/97 1812
CCB		970714T	0.00491						0.01	07/14/97 1821
CCV		970513T	2.53231		2.5		101.3	%	95-105	07/14/97 1919
CCB		970714T	0.00499						0.01	07/14/97 1921
ISB		970708X	0.99543		1.000		99.5	%	80-120	07/14/97 1950
CCV		970513T	2.44216		2.5		97.7	%	95-105	07/14/97 2008
CCB		970714T	0.00499						0.01	07/14/97 2017
ISB		970701WW	0.89309		1.000		89.3	%	80-120	07/14/97 2026
CCV		970513T	2.41923		2.5		96.8	%	95-105	07/14/97 2039
CCB		970714T	0.00118						0.01	07/14/97 2047
ISB		970701WW	0.90929		1.000		90.9	%	80-120	07/14/97 2051
CCV		970513T	2.46290		2.5		98.5	%	95-105	07/14/97 2100
CCB		970714T	0.00682						0.01	07/14/97 2102

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Silver (Ag)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970428T	0.96279		1.00		96.3	%	95-105	07/14/97 0858
ICB		970714T	0.00189						0.005	07/14/97 0914
ISB		970708X	0.91136		1.000		91.1	%	80-120	07/14/97 0924
ISB		970701WW	0.91872		1.000		91.9	%	80-120	07/14/97 0952
MD	971758-2		0.00257			0.00086	0.00171	A	0.00500	07/14/97 1019
PDS	971758-3	970630Z	0.92316		1.000	0.00074	92.2	%	75-125	07/14/97 1035
CCV		970701T	2.38490		2.500		95.4	%	95-105	07/14/97 1041
CCB		970714T	0.00064						0.005	07/14/97 1133
PDS	971770-1	970630Z	0.91368		1.000	0.00045	91.3	%	75-125	07/14/97 1259
CCV		970701T	2.51125		2.500		100.5	%	95-105	07/14/97 1334
CCB		970714T	0.00059						0.005	07/14/97 1352
PDS	971822-3	970630Z	0.81150		1.000	-0.00593	81.7	%	75-125	07/14/97 1430
MD	971812-1		0.00142			0.00175	0.00033	A	0.00500	07/14/97 1440
CCV		970701T	2.37769		2.500		95.1	%	95-105	07/14/97 1500
CCB		970714T	0.00424						0.005	07/14/97 1516
MD	971841-3		0.00244			-0.00027	0.00271	A	0.00500	07/14/97 1547
PDS	971841-3	970630Z	0.89608		1.000	-0.00027	89.6	%	75-125	07/14/97 1553
CCV		970701T	2.37793		2.500		95.1	%	95-105	07/14/97 1611
CCB		970714T	0.00364						0.005	07/14/97 1622
CCV		970701T	2.52073		2.500		100.8	%	95-105	07/14/97 1709
CCB		970714T	0.00236						0.005	07/14/97 1723
MB		0711	0.00083						0.005	07/14/97 1744
LCS		970709H	1.07825		1.00		107.8	%	80-120	07/14/97 1747
LCD		970709H	1.09935	1.07825	1.00		109.9	%	80-120	07/14/97 1750
							1.9	R	20	
CCV		970701T	2.61914		2.500		104.8	%	95-105	07/14/97 1801
CCB		970714T	0.00397						0.005	07/14/97 1821
CCV		970701T	2.38386		2.500		95.4	%	95-105	07/14/97 1912
CCB		970714T	0.00106						0.005	07/14/97 1921
ISB		970708X	0.92444		1.000		92.4	%	80-120	07/14/97 1950
CCV		970701T	2.42908		2.500		97.2	%	95-105	07/14/97 1954
CCB		970714T	0.00369						0.005	07/14/97 2017
ISB		970701WW	0.97514		1.000		97.5	%	80-120	07/14/97 2026
CCV		970701T	2.47891		2.500		99.2	%	95-105	07/14/97 2031
CCB		970714T	0.00061						0.005	07/14/97 2047
ISB		970701WW	0.98611		1.000		98.6	%	80-120	07/14/97 2051
CCV		970701T	2.49285		2.500		99.7	%	95-105	07/14/97 2054
CCB		970714T	0.00094						0.005	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Thallium (Tl)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	1.92086		2.00		96.0	%	95-105	07/14/97 0856
ICB		970714T	0.00218						0.01	07/14/97 0914
ISB		970708X	0.91577		1.000		91.6	%	80-120	07/14/97 0924
ISA		970618W	48.06250		50.000000		96.1	%	80-120	07/14/97 0937
ISB		970701WW	45.82416		51.00		89.9	%	80-120	07/14/97 0952
MD	971758-2		-0.00740			-0.00850	0.00110	A	0.01000	07/14/97 1019
PDS	971758-3	970630Z	0.95375		1.000	-0.00464	95.8	%	75-125	07/14/97 1035

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgement of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Thallium (Tl)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
CCV		970513T	1.00605		1.0		100.6	%	95-105	07/14/97 1126
CCB		970714T	-0.00033						0.01	07/14/97 1133
PDS	971770-1	970630Z	0.94760		1.000	-0.00105	94.9	%	75-125	07/14/97 1259
CCV		970513T	0.98403		1.0		98.4	%	95-105	07/14/97 1344
CCB		970714T	0.00224						0.01	07/14/97 1352
PDS	971822-3	970630Z	1.02087		1.000	0.00941	101.1	%	75-125	07/14/97 1430
MD	971812-1		-0.01053			-0.00557	0.00496	A	0.01000	07/14/97 1440
CCV		970513T	1.00196		1.0		100.2	%	95-105	07/14/97 1504
CCB		970714T	-0.00019						0.01	07/14/97 1516
MD	971841-3		-0.00663			-0.00069	0.00594	A	0.01000	07/14/97 1547
PDS	971841-3	970630Z	0.87457		1.000	-0.00069	87.5	%	75-125	07/14/97 1553
CCV		970513T	0.95332		1.0		95.3	%	95-105	07/14/97 1616
CCB		970714T	0.00035						0.01	07/14/97 1622
CCV		970513T	0.99763		1.0		99.8	%	95-105	07/14/97 1715
CCB		970714T	-0.00153						0.01	07/14/97 1723
MB		0711	0.00258						0.01	07/14/97 1744
LCS		970709H	1.01596		1.00		101.6	%	80-120	07/14/97 1747
LCD		970709H	1.03120	1.01596	1.00		103.1	%	80-120	07/14/97 1750
							1.5	R	20	
CCV		970513T	1.01582		1.0		101.6	%	95-105	07/14/97 1812
CCB		970714T	0.00284						0.01	07/14/97 1821
CCV		970513T	1.01334		1.0		101.3	%	95-105	07/14/97 1919
CCB		970714T	0.00056						0.01	07/14/97 1921
ISB		970708X	0.95331		1.000		95.3	%	80-120	07/14/97 1950
CCV		970513T	0.98566		1.0		98.6	%	95-105	07/14/97 2008
CCB		970714T	0.00234						0.01	07/14/97 2017
ISA		970618W	47.64059		50.000000		95.3	%	80-120	07/14/97 2020
ISB		970701WW	43.00976		51.00		84.3	%	80-120	07/14/97 2026
CCV		970513T	0.98529		1.0		98.5	%	95-105	07/14/97 2039
CCB		970714T	-0.00101						0.01	07/14/97 2047
ISB		970701WW	43.51358		51.00		85.3	%	80-120	07/14/97 2051
CCV		970513T	0.99237		1.0		99.2	%	95-105	07/14/97 2100
CCB		970714T	0.00407						0.01	07/14/97 2102

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
ICV		970508T	2.00183		2.00		100.1	%	95-105	07/14/97 0856
ICB		970714T	0.00008						0.005	07/14/97 0914
ISB		970708X	0.96222		1.000		96.2	%	80-120	07/14/97 0924
ISB		970701WW	0.91200		1.000		91.2	%	80-120	07/14/97 0952
MD	971758-2		0.00272			0.00244	0.00028	A	0.00500	07/14/97 1019
PDS	971758-3	970630Z	1.00114		1.000	0.00880	99.2	%	75-125	07/14/97 1035
CCV		970513T	2.54127		2.5		101.7	%	95-105	07/14/97 1126
CCB		970714T	-0.00000						0.005	07/14/97 1133
PDS	971770-1	970630Z	0.98896		1.000	-0.00125	99.0	%	75-125	07/14/97 1259
MB		0710	0.00442						0.005	07/14/97 1316
LCS		970709H	1.12192		1.00		112.2	%	80-120	07/14/97 1322
MD	971815-1		0.79892			0.80522	0.8	R	20	07/14/97 1331

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Test Method.....: EPA 200.7 Batch.....: 23625 Analyst...: gag
Method Description.: Metals Analysis(ICAP), Trace Units.....: mg/L
Parameter.....: Zinc (Zn)

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	Date/Time
CCV		970513T	2.50628		2.5		100.3	%	95-105	07/14/97 1344
CCB		970714T	-0.00000						0.005	07/14/97 1352
MS	971816-1	970630Z	1.02066		1.000	0.00370	101.7	%	80-120	07/14/97 1410
PDS	971822-3	970630Z	1.05274		1.000	0.10732	94.5	%	75-125	07/14/97 1430
MD	971812-1		0.17455			0.17035	2.4	R	20	07/14/97 1440
CCV		970513T	2.54233		2.5		101.7	%	95-105	07/14/97 1504
CCB		970714T	0.00020						0.005	07/14/97 1516
MD	971841-3		0.00172			0.00160	0.00012	A	0.00500	07/14/97 1547
PDS	971841-3	970630Z	0.94407		1.000	0.00160	94.2	%	75-125	07/14/97 1553
CCV		970513T	2.47357		2.5		98.9	%	95-105	07/14/97 1616
CCB		970714T	0.00052						0.005	07/14/97 1622
CCV		970513T	2.51573		2.5		100.6	%	95-105	07/14/97 1715
CCB		970714T	0.00006						0.005	07/14/97 1723
MB		0711	0.00453						0.005	07/14/97 1744
LCS		970709H	1.01574		1.00		101.6	%	80-120	07/14/97 1747
LCD		970709H	1.03509	1.01574	1.00		103.5	%	80-120	07/14/97 1750
							1.9	R	20	
CCV		970513T	2.58611		2.5		103.4	%	95-105	07/14/97 1812
CCB		970714T	0.00122						0.005	07/14/97 1821
CCV		970513T	2.55920		2.5		102.4	%	95-105	07/14/97 1919
CCB		970714T	0.00019						0.005	07/14/97 1921
ISB		970708X	0.99322		1.000		99.3	%	80-120	07/14/97 1950
CCV		970513T	2.48293		2.5		99.3	%	95-105	07/14/97 2008
CCB		970714T	0.00023						0.005	07/14/97 2017
ISB		970701WW	0.92490		1.000		92.5	%	80-120	07/14/97 2026
CCV		970513T	2.44261		2.5		97.7	%	95-105	07/14/97 2039
CCB		970714T	0.00006						0.005	07/14/97 2047
ISB		970701WW	0.93569		1.000		93.6	%	80-120	07/14/97 2051
CCV		970513T	2.47995		2.5		99.2	%	95-105	07/14/97 2100
CCB		970714T	0.00022						0.005	07/14/97 2102

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

Test Method.....: SW-846 8020 Batch.....: 23419 Analyst ...: vdt
Method Description.: Volatile Organics -Aromatics Units.....: ug/L

MB	Method Blank				07/07/97 1109

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	ND						0.5
Ethylbenzene	ND						0.5
Toluene	ND						0.5
Xylenes (total)	ND						0.5

SB	Spiked Blank	T970707B			07/07/97 1143

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	22.079		20.10		109.8	%	39-150
Ethylbenzene	21.131		20.08		105.2	%	32-160
Toluene	21.789		20.08		108.5	%	46-148
Xylenes (total)	62.008		60.26		102.9	%	75-125

SBD	Spiked Blank Duplicate	T970707B			07/07/97 1218

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	22.187	22.079	20.10		110.4	%	39-150
					0.5	R	25
Ethylbenzene	21.261	21.131	20.08		105.9	%	32-160
					0.6	R	25
Toluene	21.886	21.789	20.08		109.0	%	46-148
					0.4	R	25
Xylenes (total)	63.746	62.008	60.26		105.8	%	75-125
					2.8	R	25

Test Method.....: SW-846 8270 Batch.....: 23485 Analyst ...: dmj
Method Description.: Semivolatile Organics (Client List) Units.....: ug/L

MB	Method Blank	MB3110			07/08/97 1339

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene	ND						10
Acenaphthylene	ND						10
Anthracene	ND						10
Benzo(a)anthracene	ND						10
Benzo(b)fluoranthene	ND						10
Benzo(k)fluoranthene	ND						10
Benzo(ghi)perylene	ND						10
Benzo(a)pyrene	ND						10
Chrysene	ND						10

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MB	Method Blank	MB3110			07/08/97 1339

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Dibenzo(a,h)anthracene	ND						10
Fluoranthene	ND						10
Fluorene	ND						10
Indeno(1,2,3-cd)pyrene	ND						10
1-Methylnaphthalene	ND						10
2-Methylnaphthalene	ND						10
Naphthalene	ND						10
Phenanthrene	ND						10
Pyrene	ND						10

LCS	Laboratory Control Sample	B970613A			07/08/97 1437

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene	76.44		100.0	ND	76.4	%	46-118
Pyrene	90.09		100.1	ND	90.0	%	26-127

LCD	Laboratory Control Sample Duplicate	B970613A			07/08/97 1536

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Acenaphthene	77.54	76.44	100.0	ND	77.5	%	46-118
					1.4	R	31
Pyrene	90.19	90.09	100.1	ND	90.1	%	26-127
					0.1	R	31

Test Method.....: SW-846 8020 Batch.....: 23655 Analyst ...: vdt
Method Description.: Volatile Organics -Aromatics Units.....: ug/L

MB	Method Blank				07/15/97 1120

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	ND						0.5
Ethylbenzene	ND						0.5
Toluene	ND						0.5
Xylenes (total)	ND						0.5

SB	Spiked Blank	T970715B			07/15/97 1229

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	22.122		20.10		110.1	%	39-150
Ethylbenzene	21.184		20.08		105.5	%	32-160
Toluene	21.819		20.08		108.7	%	46-148
Xylenes (total)	63.032		60.26		104.6	%	75-125

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 971758 Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SBD	Spiked Blank Duplicate	T970715B			07/15/97	1305

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	21.404	21.404	20.10		106.5	%	39-150
					0.0	R	25
Ethylbenzene	20.802	20.802	20.08		103.6	%	32-160
					0.0	R	25
Toluene	21.255	21.255	20.08		105.9	%	46-148
					0.0	R	25
Xylenes (total)	62.346	62.346	60.26		103.5	%	75-125
					0.0	R	25

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 971758 Report Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Method.....: SW-846 8020 Batch.....: 23419
Method Code.....: 8020 Analyst.....: vdt

Surrogate	Units
BFB (Surrogate)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB		21.718	20.07	108.2	110-89		07/07/97	1109
		SB		20.738	20.07	103.3	110-89		07/07/97	1143
		SBD		20.801	20.07	103.6	110-89		07/07/97	1218
971757-1				20.386	20.07	101.6	110-89		07/07/97	1851
971757-2				20.131	20.07	100.3	110-89		07/07/97	2010
971757-3				19.988	20.07	99.6	110-89		07/07/97	2045
971757-4				19.862	20.07	99.0	110-89		07/07/97	2119
971757-5				19.735	20.07	98.3	110-89		07/07/97	2154
971758-2				19.750	20.07	98.4	110-89		07/07/97	2252
971758-1				20.610	20.07	102.7	110-89		07/07/97	2326
971757-6			10	19.214	20.07	95.7	110-89		07/08/97	0001

Method.....: SW-846 8270 Batch.....: 23485
Method Code.....: 8270C Analyst.....: dmj

Surrogate	Units
2,4,6-Tribromophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB	1.00	77.59	100.51	77	123-10		07/08/97	1339
		LCS	1.00	85.84	100.51	85	123-10		07/08/97	1437
		LCD	1.00	86.45	100.51	86	123-10		07/08/97	1536
971757-1			1.00	87.68	100.51	87	123-10		07/08/97	1634
971757-2			1.00	88.65	100.51	88	123-10		07/08/97	1732
971757-3			1.00	88.60	100.51	88	123-10		07/08/97	1830
971757-6			1.00	88.38	100.51	88	123-10		07/08/97	1928
971758-1			1.00	93.09	100.51	93	123-10		07/08/97	2026
971758-2			1.00	87.51	100.51	87	123-10		07/08/97	2123
971758-3			1.00	86.54	100.51	86	123-10		07/08/97	2220
971758-4			1.00	87.74	100.51	87	123-10		07/08/97	2317

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB	1.00	35.84	50.00	72	116-43		07/08/97	1339
		LCS	1.00	35.17	50.00	70	116-43		07/08/97	1437
		LCD	1.00	35.81	50.00	72	116-43		07/08/97	1536
971757-1			1.00	42.50	50.00	85	116-43		07/08/97	1634

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 971758 Report Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Surrogate	Units
2-Fluorobiphenyl	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
971757-2			1.00	41.98	50.00	84	116-43		07/08/97	1732
971757-3			1.00	41.48	50.00	83	116-43		07/08/97	1830
971757-6			1.00	44.13	50.00	88	116-43		07/08/97	1928
971758-1			1.00	43.56	50.00	87	116-43		07/08/97	2026
971758-2			1.00	37.55	50.00	75	116-43		07/08/97	2123
971758-3			1.00	36.85	50.00	74	116-43		07/08/97	2220
971758-4			1.00	35.54	50.00	71	116-43		07/08/97	2317

Surrogate	Units
2-Fluorophenol	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB	1.00	39.36	99.98	39	100-21		07/08/97	1339
		LCS	1.00	37.72	99.98	38	100-21		07/08/97	1437
		LCD	1.00	38.15	99.98	38	100-21		07/08/97	1536
971757-1			1.00	43.80	99.98	44	100-21		07/08/97	1634
971757-2			1.00	42.57	99.98	43	100-21		07/08/97	1732
971757-3			1.00	44.14	99.98	44	100-21		07/08/97	1830
971757-6			1.00	60.66	99.98	61	100-21		07/08/97	1928
971758-1			1.00	43.72	99.98	44	100-21		07/08/97	2026
971758-2			1.00	38.73	99.98	39	100-21		07/08/97	2123
971758-3			1.00	38.81	99.98	39	100-21		07/08/97	2220
971758-4			1.00	35.99	99.98	36	100-21		07/08/97	2317

Surrogate	Units
Nitrobenzene-d5	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB	1.00	37.53	50.07	75	114-35		07/08/97	1339
		LCS	1.00	36.57	50.07	73	114-35		07/08/97	1437
		LCD	1.00	36.86	50.07	74	114-35		07/08/97	1536
971757-1			1.00	40.45	50.07	81	114-35		07/08/97	1634
971757-2			1.00	40.17	50.07	80	114-35		07/08/97	1732
971757-3			1.00	39.65	50.07	79	114-35		07/08/97	1830
971757-6			1.00	43.36	50.07	87	114-35		07/08/97	1928
971758-1			1.00	39.19	50.07	78	114-35		07/08/97	2026
971758-2			1.00	35.85	50.07	72	114-35		07/08/97	2123
971758-3			1.00	36.41	50.07	73	114-35		07/08/97	2220
971758-4			1.00	33.66	50.07	67	114-35		07/08/97	2317

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 971758 Report Date: 07/18/97

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Surrogate	Units
Phenol-d6	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB	1.00	26.92	100.40	27	94-10		07/08/97	1339
		LCS	1.00	29.37	100.40	29	94-10		07/08/97	1437
		LCD	1.00	29.88	100.40	30	94-10		07/08/97	1536
971757-1			1.00	29.10	100.40	29	94-10		07/08/97	1634
971757-2			1.00	28.39	100.40	28	94-10		07/08/97	1732
971757-3			1.00	29.44	100.40	29	94-10		07/08/97	1830
971757-6			1.00	35.74	100.40	36	94-10		07/08/97	1928
971758-1			1.00	31.37	100.40	31	94-10		07/08/97	2026
971758-2			1.00	26.33	100.40	26	94-10		07/08/97	2123
971758-3			1.00	27.05	100.40	27	94-10		07/08/97	2220
971758-4			1.00	25.35	100.40	25	94-10		07/08/97	2317

Surrogate	Units
Terphenyl-d14	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB	1.00	46.48	50.02	93	141-33		07/08/97	1339
		LCS	1.00	47.40	50.02	95	141-33		07/08/97	1437
		LCD	1.00	46.86	50.02	94	141-33		07/08/97	1536
971757-1			1.00	48.76	50.02	97	141-33		07/08/97	1634
971757-2			1.00	46.96	50.02	94	141-33		07/08/97	1732
971757-3			1.00	48.09	50.02	96	141-33		07/08/97	1830
971757-6			1.00	50.94	50.02	102	141-33		07/08/97	1928
971758-1			1.00	49.02	50.02	98	141-33		07/08/97	2026
971758-2			1.00	46.99	50.02	94	141-33		07/08/97	2123
971758-3			1.00	46.99	50.02	94	141-33		07/08/97	2220
971758-4			1.00	47.86	50.02	96	141-33		07/08/97	2317

Method.....: SW-846 8020 Batch.....: 23655
Method Code.....: 8020 Analyst.....: vdt

Surrogate	Units
BFB (Surrogate)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB		18.043	20.07	89.9	110-89		07/15/97	1120
		SB		20.989	20.07	104.6	110-89		07/15/97	1229
		SBD		18.017	20.07	89.8	110-89		07/15/97	1305
971758-7				17.931	20.07	89.3	110-89		07/15/97	1422
971758-5				18.115	20.07	90.3	110-89		07/15/97	1457
971758-6				17.868	20.07	89.0	110-89		07/15/97	1532

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/18/97

	WATER LIMITS Recovery	RPD	SOIL LIMITS Recovery	RPD
VOLATILE ORGANICS				
Methods 602/8020 Surrogate				
Bromofluorobenzene	89-110%		78-123%	
Methods 602/8020 Spike/Spike Duplicate				
Benzene	39-150%	25	75-125%	25
Ethylbenzene	32-160%	25	60-140%	25
Toluene	46-148%	25	70-130%	25
Xylenes	75-125%	25	61-139%	25
Method 8015 Mod. Spike/Spike Duplicate				
TVPH	75-125%	20	48-152%	20
TEPH	54-135%	20	54-135%	20
Methods 624/8240/8260 Surrogates				
Dibromofluoromethane	86-118%		80-120%	
Toluene-(d8)	88-110%		81-117%	
4-Bromofluorobenzene	86-115%		74-121%	
Method 524.2 Surrogates				
4-Bromofluorobenzene	80-120%			
1,4-Dichlorobenzene-d4	80-120%			
Methods 624/8240 Spike/Spike Duplicate				
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21
Method 8260 Spike/Spike Duplicate				
1,1-Dichloroethene	70-130%	14	70-130%	22
Trichloroethene	71-120%	14	70-130%	24
Benzene	76-127%	11	70-130%	21
Toluene	76-125%	13	70-130%	21
Chlorobenzene	75-130%	13	70-130%	21
Method 524.2 Spike/Spike Duplicate				
1,1-Dichloroethene	80-120%	14		
Trichloroethene	80-120%	14		
Benzene	80-120%	11		
Toluene	80-120%	13		
Chlorobenzene	80-120%	13		
PESTICIDES AND PCB'S				
Methods 608/8080 Surrogates				
Tetrachloro-m-xylene	60-150%		60-150%	
4,4'-Dichlorobiphenyl	60-150%		60-150%	
Decachlorobiphenyl	60-150%		60-150%	
Method 8140 Surrogates				
Tributylphosphate	36-152%		36-152%	
Triphenylphosphate	36-152%		36-152%	

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/18/97

	WATER LIMITS Recovery	RPD	SOIL LIMITS Recovery	RPD
SEMIVOLATILE ORGANICS				
Methods 625/8270 Surrogates				
Nitrobenzene-d5	35-114%		23-120%	
2-Fluorobiphenyl	43-116%		30-115%	
4-Terphenyl-d14	33-141%		18-137%	
Phenol-d6	10-94%		24-113%	
2-Fluorophenol	21-100%		25-121%	
2,4,6-Tribromophenol	10-123%		19-122%	
Methods 625/8270 Spike/Spike Duplicate				
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dintrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36
HERBICIDES				
Method 8150 Surrogate				
2,4-Dichlorophenylacetic acid	50-150%		50-150%	
Method 8150 Spike/Spike Duplicate				
2,4-D	41-126%	25	41-126%	25
2,4,5-T	45-119%	25	45-119%	25

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/18/97

(1) EPA 600/4-79-020 Methods for Chemical Analysis of Water and Wastes, March 1983

(2) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986

(3) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update I, July 1992

(4) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update II, September 1994

(5) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update IIA, August 1993

(6) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update IIB, January 1995

(7) Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

(8) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

(9) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992

(10) EPA 600/4-80-032 Prescribed Procedures For Measurement Of Radioactivity in Drinking Water, August 1980

(11) EPA 600/8-78-017 Microbiological Methods For Monitoring The Environment, December 1978

(12) Federal Register, July 1, 1990 (40 CFR Part 136)

(13) EPA 600/4-88-03 Methods For The Determination of Organics Compounds in Drinking Water, December 1988

(14) U.S.G.S. Methods For Determination of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985

(15) Federal Register, June 7, 1991 (40 CFR Parts 141 & 142)

(16) ASTM Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991

(17) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965

(18) ASTM Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal, and Coke

(19) EPA 600/2-78-054 Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978

(20) ASTM Part 19, Soils and Rocks; Building Stones, 1981

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/18/97

COMMENTS

a) ND = Not detected. NC = Not calculable due to value(s) lower than the detection limit.

b) Data in the QA report may differ from final results due to digestion and/or dilution of samples into analytical ranges. Quality control results are reported "as analyzed" within the instruments established calibration range.

c) The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis.

d) Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
EB	Extraction Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post-Digestion Spike
SB	Spike Blank
SBD	Spike Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

SUBCONTRACT LABORATORY	CODE
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Edison, NJ	* ED
Core Laboratories - Gulf States - Houston, TX	* HE
Core Laboratories - Houston, TX	* HP
Core Laboratories - Indianapolis, IN	* IN

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 07/18/97

Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Core Laboratories - Tampa, FL	* TP
Core Laboratories - Valparaiso, IN	* VP
Other Subcontract Laboratories	* XX

EXPLANATION OF DATA QUALIFIERS - ORGANIC PARAMETERS

U - This qualifier indicates that the analyte was analyzed for but not detected.
J - This qualifier indicates that the value is an estimate. It is used when a compound is determined to be present based on the mass spectral data but at a concentration less than the practical quantitation limit of the method.
E - This qualifier indicates that a sample result is an estimate because the concentration exceeded the upper calibration range of the instrument.

EXPLANATION OF DATA QUALIFIERS - METALS & INORGANIC PARAMETERS

U - This qualifier indicates that the analyte was analyzed for but not detected.
B - This qualifier indicates that the analyte was detected at a level below the reporting limit but greater than or equal to the instrument detection limit.

EXPLANATION OF DATA FLAGS - ALL PARAMETERS

B - This flag indicates that an analyte is present in the method blank as well as in the sample. The client should consider this when evaluating the data.
E - This flag indicates the reported value is estimated due to sample matrix interference.
W - This flag indicates that a post-digestion spike for GFAA analysis is outside quality control limits.
X - This flag indicates that a surrogate recovery is outside quality control limits.
Y - This flag indicates a spike or spike duplicate recovery is outside quality control limits.
Z - This flag indicates a relative percent difference for a spike and spike duplicate is outside quality control limits.
* - This flag indicates a relative percent difference for a duplicate analysis is outside quality control limits.
^ - This flag indicates a percent recovery for a standard is outside quality control limits.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpreta bons expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

ANALYTICAL REPORT

JOB NUMBER: 980052

Prepared For:

BDM International, Inc.
1801 Randolph Street SE
Albuquerque, NM 87106

Attention: Mike Selke

Date: 01/16/98

Michelle M Weatherford
Signature

1/19/98
Date

Name: Michelle M. Weatherford

Title: Project Coordinator

Core Laboratories, Inc.
10703 East Bethany Drive
Aurora, CO 80014

Phone: (303) 751-1780
Fax: (303) 751-1784

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

BDM International, Inc.
1801 Randolph Road, SE
MS 10
Albuquerque, NM 87106
(505) 848-5000
FAX: (505) 848-5299

12204

Chain of Custody

Date 1-8-98 Page 1 Of 1

Lab Name Core Laboratories
Address 10703 E. Bethany Dr.
Aurora CO 80014
Telephone 303-751-1780

Samplers (SIGNATURES) Dwayne Salisbury

Analysis Request

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020 BTEX only	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neu/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP - Vol., Semi-Vol. Herbicides, Pesticides	TCLP - Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)					Number of Containers
9801081150	H2O	MW-9S		X																									3
9801081205	H2O	MW-10		X				duplicate for MW-9S																					3
9801081245	H2O	downstream		X																									3
9801081400	H2O	MW-6D		X																									3
9801081445	H2O	MW-6S		X																									3
9801081530	H2O	MW-3D		X																									3
9801081545	H2O	MW-3S		X																									3
9801081600	H2O	Rinsate		X																									3
9801081605	H2O	Upstream		X																									3
9801081615	H2O	Trip-Blank		X																									1

Project Information	
Project	Rexene
Project Director	M. Selke
Charge Code No.	P12345/3031-104
Shipping ID. No.	351912 4870
Via:	Fed-EX

Sample Receipt		
Total No. of Containers	28	
Chain of Custody Seals	Y	
Rec'd Good Condition/Cold	2.5°	
Conforms to Record	Y	
Lab No.	980052	

Special Instructions/Comments: Normal TAT

Relinquished By 1.	Relinquished By 2.	Relinquished By 3.
Dwayne Salisbury (Signature) 1500 (Time)	(Signature) (Time)	(Signature) (Time)
Dwayne Salisbury (Printed Name) 1-8-98 (Date)	(Printed Name) (Date)	(Printed Name) (Date)
BDM (Company)	(Company)	(Company)
Received By 1.	**Received By 2.**	**Received By (Laboratory) 3.**
(Signature) (Time)	(Signature) (Time)	D Gallion 0930 (Signature) (Time)
(Printed Name) (Date)	(Printed Name) (Date)	D Gallion 010998 (Printed Name) (Date)
(Company)	(Company)	Core (Laboratory)

Distribution: White, Canary-Laboratory • Pink, BDM

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081150 MW95
Date Sampled.....: 01/08/98
Time Sampled.....: 11:50
Sample Matrix.....: Water

Laboratory Sample ID: 980052-1
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/12/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/12/98	maz
	Toluene	ND	0.5	ug/L	01/12/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/12/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081205 MW10
Date Sampled.....: 01/08/98
Time Sampled.....: 12:05
Sample Matrix.....: Water

Laboratory Sample ID: 980052-2
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/12/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/12/98	maz
	Toluene	ND	0.5	ug/L	01/12/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/12/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081245 DOWNSTREAM
Date Sampled.....: 01/08/98
Time Sampled.....: 12:45
Sample Matrix.....: Water

Laboratory Sample ID: 980052-3
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/12/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/12/98	maz
	Toluene	ND	0.5	ug/L	01/12/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/12/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081400 MW6D
Date Sampled.....: 01/08/98
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 980052-4
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/12/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/12/98	maz
	Toluene	ND	0.5	ug/L	01/12/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/12/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other minerals, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081445 MW6S
Date Sampled.....: 01/08/98
Time Sampled.....: 14:45
Sample Matrix.....: Water

Laboratory Sample ID: 980052-5
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	14	5	ug/L	01/12/98	maz
	Ethylbenzene	ND	5	ug/L	01/12/98	maz
	Toluene	ND	5	ug/L	01/12/98	maz
	Xylenes (total)	ND	5	ug/L	01/12/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081530 MW3D
Date Sampled.....: 01/08/98
Time Sampled.....: 15:30
Sample Matrix.....: Water

Laboratory Sample ID: 980052-6
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/12/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/12/98	maz
	Toluene	ND	0.5	ug/L	01/12/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/12/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081545 MW3S
Date Sampled.....: 01/08/98
Time Sampled.....: 15:45
Sample Matrix.....: Water

Laboratory Sample ID: 980052-7
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/13/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/13/98	maz
	Toluene	ND	0.5	ug/L	01/13/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/13/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORELAB

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081600 RINSATE
Date Sampled.....: 01/08/98
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 980052-8
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/13/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/13/98	maz
	Toluene	ND	0.5	ug/L	01/13/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/13/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081605 UPSTREAM
Date Sampled.....: 01/08/98
Time Sampled.....: 16:05
Sample Matrix.....: Water

Laboratory Sample ID: 980052-9
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/13/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/13/98	maz
	Toluene	ND	0.5	ug/L	01/13/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/13/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 980052

Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Customer Sample ID: 9801081615 TRIP BLANK
Date Sampled.....: 01/08/98
Time Sampled.....: 16:15
Sample Matrix.....: Water

Laboratory Sample ID: 980052-10
Date Received.....: 01/09/98
Time Received.....: 09:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
SW-846 8020	Volatile Organics -Aromatics					
	Benzene	ND	0.5	ug/L	01/13/98	maz
	Ethylbenzene	ND	0.5	ug/L	01/13/98	maz
	Toluene	ND	0.5	ug/L	01/13/98	maz
	Xylenes (total)	ND	0.5	ug/L	01/13/98	maz

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LAB

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8020 Batch.....: 30156 Analyst ...: maz
Method Description.: Volatile Organics -Aromatics Units.....: ug/L

MB — Method Blank — 01/12/98 1409

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	ND						0.5
Ethylbenzene	ND						0.5
Toluene	ND						0.5
Xylenes (total)	ND						0.5

SB — Spiked Blank — T980112B — 01/13/98 0540

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	21.230		20.10		105.6	%	39-150
Ethylbenzene	23.834		20.08		118.7	%	32-160
Toluene	21.924		20.08		109.2	%	46-148
Xylenes (total)	68.896		60.26		114.3	%	75-125

SBD — Spiked Blank Duplicate — T980112B — 01/13/98 0612

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	20.665	21.230	20.10		102.8	%	39-150
					2.7	R	25
Ethylbenzene	22.921	23.834	20.08		114.1	%	32-160
					3.9	R	25
Toluene	21.081	21.924	20.08		105.0	%	46-148
					3.9	R	25
Xylenes (total)	66.757	68.896	60.26		110.8	%	75-125
					3.2	R	25

MS — Matrix Spike — T980112B — 980068-1 — 01/12/98 1839

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	25.179		20.10	2.099	114.8	%	39-150
Ethylbenzene	22.731		20.08	ND	113.2	%	32-160
Toluene	21.286		20.08	ND	106.0	%	46-148
Xylenes (total)	65.873		60.26	ND	109.3	%	75-125

MSD — Matrix Spike Duplicate — T980112B — 980068-1 — 01/12/98 1913

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Benzene	25.334	25.179	20.10	2.099	115.6	%	39-150
					0.6	R	25
Ethylbenzene	23.702	22.731	20.08	ND	118.0	%	32-160
					4.2	R	25

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY CONTROL RESULTS

Job Number: 980052 Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	T980112B	980068-1		01/12/98	1913

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Toluene	21.890	21.286	20.08	ND	109.0	%	46-148
					2.8	R	25
Xylenes (total)	68.498	65.873	60.26	ND	113.7	%	75-125
					3.9	R	25

* %-% REC R-RPD A-ABS Diff. D-% Diff.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

SURROGATE RECOVERIES REPORT

Job Number.: 980052 Report Date: 01/16/98

CUSTOMER: BDM International, Inc. PROJECT: REXENE ATTN: Mike Selke

Method.....: SW-846 8020 Batch.....: 30156
Method Code.....: 8020 Analyst.....: maz

Surrogate	Units
BFB (Surrogate)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
		MB		19.985	20.08	99.5	89-110		01/12/98	1409
		SB		20.918	20.08	104.2	89-110		01/13/98	0540
		SBD		22.726	20.08	113.2	89-110	X	01/13/98	0612
980068-1				18.997	20.08	94.6	89-110		01/12/98	1521
980068-2				17.155	20.08	85.4	89-110	X	01/12/98	1554
980068-1				17.654	20.08	87.9	89-110	X	01/12/98	1627
980068-2				17.541	20.08	87.4	89-110	X	01/12/98	1700
980068-3				18.516	20.08	92.2	89-110		01/12/98	1733
980068-4				18.044	20.08	89.9	89-110		01/12/98	1806
980068-1		MS		19.033	20.08	94.8	89-110		01/12/98	1839
980068-1		MSD		19.230	20.08	95.8	89-110		01/12/98	1913
980052-1				20.461	20.08	101.9	89-110		01/12/98	2052
980052-2				18.977	20.08	94.5	89-110		01/12/98	2125
980052-3				18.755	20.08	93.4	89-110		01/12/98	2158
980052-4				18.602	20.08	92.6	89-110		01/12/98	2231
980052-5			10	18.316	20.08	91.2	89-110		01/12/98	2304
980052-6				18.754	20.08	93.4	89-110		01/12/98	2337
980052-7				18.482	20.08	92.0	89-110		01/13/98	0010
980052-8				18.593	20.08	92.6	89-110		01/13/98	0043
980052-9				18.047	20.08	89.9	89-110		01/13/98	0116
980052-10				18.890	20.08	94.1	89-110		01/13/98	0149
980056-7				19.495	20.08	97.1	89-110		01/13/98	0328
980056-8				19.297	20.08	96.1	89-110		01/13/98	0401
980056-9				18.850	20.08	93.9	89-110		01/13/98	0434
980056-10				18.746	20.08	93.4	89-110		01/13/98	0507

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpreta tions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/16/98

	WATER LIMITS Recovery	RPD	SOIL LIMITS Recovery	RPD
VOLATILE ORGANICS				
Methods 602/8020 Surrogate				
Bromofluorobenzene	89-110%		78-123%	
Methods 602/8020 Spike/Spike Duplicate				
Benzene	39-150%	25	75-125%	25
Ethylbenzene	32-160%	25	60-140%	25
Toluene	46-148%	25	70-130%	25
Xylenes	75-125%	25	61-139%	25
Method 8015 Mod. Spike/Spike Duplicate				
TVPH	75-125%	20	48-152%	20
TEPH	54-135%	20	54-135%	20
Methods 624/8240/8260 Surrogates				
Dibromofluoromethane	86-118%		80-120%	
Toluene-(d8)	88-110%		81-117%	
4-Bromofluorobenzene	86-115%		74-121%	
Method 524.2 Surrogates				
4-Bromofluorobenzene	80-120%			
1,4-Dichlorobenzene-d4	80-120%			
Methods 624/8240 Spike/Spike Duplicate				
1,1-Dichloroethene	61-145%	14	59-172%	22
Trichloroethene	71-120%	14	62-137%	24
Benzene	76-127%	11	66-142%	21
Toluene	76-125%	13	59-139%	21
Chlorobenzene	75-130%	13	60-133%	21
Method 8260 Spike/Spike Duplicate				
1,1-Dichloroethene	70-130%	14	70-130%	22
Trichloroethene	71-120%	14	70-130%	24
Benzene	76-127%	11	70-130%	21
Toluene	76-125%	13	70-130%	21
Chlorobenzene	75-130%	13	70-130%	21
Method 524.2 Spike/Spike Duplicate				
1,1-Dichloroethene	80-120%	14		
Trichloroethene	80-120%	14		
Benzene	80-120%	11		
Toluene	80-120%	13		
Chlorobenzene	80-120%	13		
PESTICIDES AND PCB'S				
Methods 608/8080 Surrogates				
Tetrachloro-m-xylene	60-150%		60-150%	
4,4'-Dichlorobiphenyl	60-150%		60-150%	
Decachlorobiphenyl	60-150%		60-150%	
Method 8140 Surrogates				
Tributylphosphate	36-152%		36-152%	
Triphenylphosphate	36-152%		36-152%	

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

CORE LABORATORIES

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/16/98

	WATER LIMITS Recovery	RPD	SOIL LIMITS Recovery	RPD
SEMIVOLATILE ORGANICS				
Methods 625/8270 Surrogates				
Nitrobenzene-d5	35-114%		23-120%	
2-Fluorobiphenyl	43-116%		30-115%	
4-Terphenyl-d14	33-141%		18-137%	
Phenol-d6	10-94%		24-113%	
2-Fluorophenol	21-100%		25-121%	
2,4,6-Tribromophenol	10-123%		19-122%	
Methods 625/8270 Spike/Spike Duplicate				
Phenol	12-110%	42	26-90%	35
2-Chlorophenol	27-123%	40	25-102%	50
1,4-Dichlorobenzene	36-97%	28	28-104%	27
N-Nitroso-di-n-propylamine	41-116%	38	41-126%	38
1,2,4-Trichlorobenzene	39-98%	28	38-107%	23
4-Chloro-3-methylphenol	23-97%	42	26-103%	33
Acenaphthene	46-118%	31	31-137%	19
4-Nitrophenol	10-80%	50	11-114%	50
2,4-Dintrotoluene	24-96%	38	28-89%	47
Pentachlorophenol	9-103%	50	17-109%	47
Pyrene	26-127%	31	35-142%	36
HERBICIDES				
Method 8150 Surrogate				
2,4-Dichlorophenylacetic acid	50-150%		50-150%	
Method 8150 Spike/Spike Duplicate				
2,4-D	41-126%	25	41-126%	25
2,4,5-T	45-119%	25	45-119%	25

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpreta tions expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/16/98

(1) EPA 600/4-79-020 Methods for Chemical Analysis of Water and Wastes, March 1983

(2) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986

(3) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update I, July 1992

(4) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update II, September 1994

(5) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update IIA, August 1993

(6) EPA SW846 Test Methods for Evaluating Solid Waste, Final Update IIB, January 1995

(7) Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

(8) Standard Methods for the Examination of Water and Wastewater, 17th Edition, 1989

(9) Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992

(10) EPA 600/4-80-032 Prescribed Procedures For Measurement Of Radioactivity in Drinking Water, August 1980

(11) EPA 600/8-78-017 Microbiological Methods For Monitoring The Environment, December 1978

(12) Federal Register, July 1, 1990 (40 CFR Part 136)

(13) EPA 600/4-88-03 Methods For The Determination of Organics Compounds in Drinking Water, December 1988

(14) U.S.G.S. Methods For Determination of Inorganic Substances In Water And Fluvial Sediments, Book 5, Chapter A1, 1985

(15) Federal Register, June 7, 1991 (40 CFR Parts 141 & 142)

(16) ASTM Section 11 Water and Environmental Technology, Volume 11.01 Water (1), 1991

(17) Methods of Soil Analysis, American Society of Agronomy, Agronomy No. 9, 1965

(18) ASTM Section 5, Petroleum Products, Lubricants, and Fossil Fuels, Volume 05.05, Gaseous Fuels, Coal, and Coke

(19) EPA 600/2-78-054 Field and Laboratory Methods Applicable To Overburdens and Mine Soils, March 1978

(20) ASTM Part 19, Soils and Rocks; Building Stones, 1981

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/16/98

COMMENTS

a) ND = Not detected. NC = Not calculable due to value(s) lower than the detection limit.

b) Data in the QA report may differ from final results due to digestion and/or dilution of samples into analytical ranges. Quality control results are reported "as analyzed" within the instruments established calibration range.

c) The "Time Analyzed" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis.

d) Results for soil and sludge samples are reported on a wet weight basis (i.e. not corrected for percent moisture) unless otherwise indicated.

BLANK QC SAMPLE IDENTIFICATION

MB	Method Blank
EB	Extraction Blank
ICB	Initial Calibration Blank
CCB	Continuing Calibration Blank

SPIKE QC SAMPLE IDENTIFICATION

MS	Method (Matrix) Spike
MSD	Method (Matrix) Spike Duplicate
PDS	Post-Digestion Spike
PSD	Post-Digestion Spike Duplicate
SB	Spike Blank
SBD	Spike Blank Duplicate

REFERENCE STANDARD QC SAMPLE IDENTIFICATION

LCS	Laboratory Control Standard
RS	Reference Standard
ICV	Initial Calibration Verification Standard
CCV	Continuing Calibration Verification Standard
ISA/ISB	ICP Interference Check Sample
ICL	Initial Calibration/Laboratory Control Sample
DSC	Distilled Standard Check
CRI	CRDL Low-Level ICP Standard

DUPLICATE QC SAMPLE IDENTIFICATION

MD	Method (Matrix) Duplicate
ED	Extraction Duplicate
SD	Serial Dilution

Analyses performed by a subcontract laboratory are indicated on the analytical and/or quality control reports under "Technician" using the following codes:

SUBCONTRACT LABORATORY	CODE
Core Laboratories - Anaheim, CA	* AN
Core Laboratories - Casper, WY	* CA
Core Laboratories - Corpus Christi, TX	* CC
Core Laboratories - Edison, NJ	* ED

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/16/98

Core Laboratories - Gulf States - Houston, TX	* HE
Core Laboratories - Houston, TX	* HP
Core Laboratories - Indianapolis, IN	* IN
Core Laboratories - Lake Charles, LA	* LC
Core Laboratories - Long Beach, CA	* LB
Core Laboratories - Tampa, FL	* TP
Core Laboratories - Valparaiso, IN	* VP
Other Subcontract Laboratories	* XX

EXPLANATION OF DATA QUALIFIERS - ORGANIC PARAMETERS

U - This qualifier indicates that the analyte was analyzed for but not detected.

J - This qualifier indicates that the value is an estimate. It is used when a compound is determined to be present based on the mass spectral data but at a concentration less than the practical quantitation limit of the method.

E - This qualifier indicates that a sample result is an estimate because the concentration exceeded the upper calibration range of the instrument.

EXPLANATION OF DATA QUALIFIERS - METALS & INORGANIC PARAMETERS

U - This qualifier indicates that the analyte was analyzed for but not detected.

B - This qualifier indicates that the analyte was detected at a level below the reporting limit but greater than or equal to the instrument detection limit.

EXPLANATION OF DATA FLAGS - ALL PARAMETERS

B - This flag indicates that an analyte is present in the method blank as well as in the sample. The client should consider this when evaluating the data.

E - This flag indicates the reported value is estimated due to sample matrix interference.

W - This flag indicates that a post-digestion spike for GFAA analysis is outside quality control limits.

X - This flag indicates that a surrogate recovery is outside quality control limits.

Y - This flag indicates a spike or spike duplicate recovery is outside quality control limits.

Z - This flag indicates a relative percent difference for a spike and spike duplicate is outside quality control limits.

* - This flag indicates a relative percent difference for a duplicate analysis is outside quality control limits.

^ - This flag indicates a percent recovery for a standard is outside quality control limits.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same as to the productivity, proper operations or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.