

GW - 55

MONITORING REPORTS

DATE:
1995

BioTECH REMEDIATION INC.

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QUARTERLY MONITORING REPORT THRIFTWAY REFINERY 626 COUNTY ROAD 5500 BLOOMFIELD, NEW MEXICO

**PREPARED FOR
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER**

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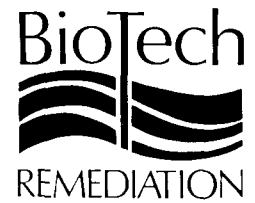
Environmental Bureau
Oil Conservation Division

BY

**BIOTECH REMEDIATION, INC.
710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401**

NOVEMBER 21, 1995

QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO



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710 EAST 20TH ST., SUITE 400
FARMINGTON, NEW MEXICO 87401

PREPARED BY:

Ross Kennemer

ROSS KENNEMER
PROJECT SCIENTIST/MANAGER

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1.0 INTRODUCTION

In compliance with Ground Water Discharge Plan GW-55 and pursuant to the requirements of the New Mexico Oil Conservation Division (NMOCD), BioTech Remediation, Inc., (BioTech) on behalf of Thriftway Marketing Corporation (Thriftway), submits this monitoring and sampling update report.

Included in this report is a description of the field sampling and measurement activities, results of the laboratory analytical testing and free-phase product removal data for the November 1995 Quarterly Monitoring event. Additionally, an update of the ground water treatment facility is also provided.

2.0 QUARTERLY MONITORING FIELD ACTIVITIES

On November 11, 1995, BioTech personnel initiated and completed the November Quarterly Monitoring. All measurement and sampling tasks were performed in a manner which strictly followed those detailed in previous reports.

Summaries of the ground water measurement data, phase-separated product measurements and laboratory analysis data are provided in Table 1, 2 and 3, respectively. Copies of Laboratory Reports, QA/QC Documentation and Chain of Custody Records are provided in Appendix A.

3.0 GROUND WATER TREATMENT EQUIPMENT PERFORMANCE

On November 10, 1995, the air stripper, used to reduce hydrocarbon contamination in the ground water, was returned to service. As detailed in the previous Quarterly Monitoring Report,

several new components were added to the system to enhance overall performance and reduce system down time.

As indicated from laboratory analysis of the stripper effluent, the system is performing well. BioTech is pleased to report that the system is reducing BTEX components by as much as 99%. Currently 8.5 GPM of water is being discharged from the stripper to the infiltration gallery. It is expected that this rate will be altered in the future in order to maximize the effectiveness of the system.

It is BioTech's intention to collect both influent and effluent samples for laboratory analysis on a monthly basis in order to monitor the performance of the system. Results of each analysis will be provided in the Quarterly Monitoring Reports.

A summary of the initial influent/effluent laboratory analysis is provided in Table 3. Copies of laboratory reports and Chain of Custody Records are provided in Appendix A.

4.0 FREE PHASE SEPARATED PRODUCT RECOVERY

In addition to the regular scheduled product bailing during each monitoring event, BioTech has initiated a bi-monthly bailing schedule for selected monitoring wells. Well selection is based on current production. As needed wells will be added or removed from the list.

Product bailing logs will be provided in each monitoring report. The logs documenting the wells which have been bailed and the volume of product removed since the initiation of this program are provided in Appendix 2.

5.0 DISCUSSION

Presently, no significant changes have occurred in reported data from previous monitoring events. However, BioTech is confident that the return to service of the air stripper will provide positive results in the future. The expected draw down and subsequent mounding of the local ground water will carefully be evaluated and discussed in the next Quarterly Monitoring Report. Additionally, based on these results, projections regarding future operations will be attempted.

FIGURES

TABLES

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
1	114.08	11/29/93	09:30	13.51	100.57
		02/11/94	16:15	12.97	101.11
		06/14/94	14:50	13.70	100.38
		09/20/94	10:55	14.60	99.48
		01/20/95	11:21	16.08	98.00
		04/19/95	10:10	15.52	98.56
		08/24/95	18:30	16.1	97.98
		11/12/95	11:55	15.41	98.67
2	107.62	11/29/93	15:33	10.23	97.39
		02/11/94	14:10	9.91	97.71
		06/14/94	13:30	10.59	97.03
		09/20/94	09:25	11.43	96.19
		01/20/95	13:39	11.73	95.89
		04/12/95	10:10	11.57	96.05
		08/24/95	17:25	11.80	95.82
		11/12/95	10:00	11.99	95.63
3	96.28	11/30/93	10:10	1.72	94.56
		02/11/94	11:25	1.27	95.01
		06/14/94	14:05	2.40	93.88
		09/19/94	15:25	3.93	92.35
		01/20/95	12:10	4.75	91.53
		04/12/95	08:36	5.21	91.07
		08/24/95	17:00	4.33	91.95
		11/12/95	10:20	4.49	91.79
4	95.82	11/30/93	09:55	3.15	92.67
		02/11/94	10:55	2.93	92.89
		06/14/94	14:00	3.85	91.97
		09/19/94	16:05	4.55	91.27
		01/17/95	16:09	4.77	91.05
		04/11/95	16:30	4.62	91.20
		08/28/95	16:45	5.13	90.69
		11/12/95	10:40	4.92	90.90
5	94.66	11/30/93	09:38	3.73	90.93
		02/11/94	10:20	3.44	91.22
		06/14/94	13:45	4.13	90.53
		09/19/94	15:55	4.79	89.87
		01/17/95	15:47	4.54	90.12
		04/11/95	15:40	4.33	90.33
		08/28/95	16:20	5.25	89.41
		11/12/95	09:40	5.03	89.63

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
6	96.31	11/29/93	04:25	2.03	94.28
		02/11/94	11:00	1.91	94.40
		06/14/94	15:00	2.89	93.42
		09/19/94	16:15	4.03	92.28
		01/20/95	12:45	4.65	91.66
		04/12/95	12:45	4.72	91.59
		08/24/95	16:50	4.59	91.72
		11/12/95	10:50	5.46	90.85
7	96.79	11/29/93	04:10	4.70	92.09
		02/11/94	11:35	4.36	92.43
		06/14/94	14:10	5.63	91.16
		09/19/94	16:25	7.21	89.58
		01/20/95	13:11	7.60	89.19
		04/12/95	09:30	8.09	88.70
		08/24/95	17:10	7.82	88.97
		11/12/95	10:55	8.11	88.68
8	97.04	11/29/93	03:00	1.54	95.50
		02/11/94	09:00	1.17	95.87
		06/14/94	11:30	3.09	93.95
		09/19/94	14:30	3.42	93.62
		01/17/95	13:17	3.00	94.04
		04/11/95	13:21	3.00	94.04
		08/24/95		DRY	DRY
		11/12/95	1350	DRY	DRY
9	100.16	11/29/93	03:15	2.83	97.33
		02/10/94	15:57	2.62	97.54
		06/14/94	11:15	3.85	96.31
		09/19/94	14:20	4.37	95.79
		01/17/95	12:53	4.20	95.96
		04/11/95	13:02	4.20	95.96
		08/24/95	10:35	4.47	95.69
		11/12/95	13:40	4.21	95.95
10	101.55	11/29/93	02:40	3.11	97.05
		02/10/94	15:55	2.31	99.24
		06/14/94	11:00	3.78	97.77
		09/19/94	13:45	4.51	97.04
		01/17/95	12:16	4.09	97.46
		04/11/95	11:32	4.05	97.50
		08/24/95	10:30	4.31	97.24
		11/12/95	14:00	4.04	97.51

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
11	103.63	11/29/93	02:30	4.41	99.22
		02/10/94	15:50	4.16	99.47
		06/14/94	10:30	4.87	98.76
		09/19/94	13:55	5.09	98.54
		01/17/95	10:30	4.83	98.80
		04/11/95	11:51	4.75	98.88
		08/24/95	10:15	5.16	98.47
		11/12/95	14:15	4.94	98.69
12	111.11	11/29/93	08:30	14.12	96.99
		02/14/94	14:30	11.99	99.12
		06/14/94	15:40	14.01	97.10
		09/20/94	11:45	15.25	95.86
		01/20/95	15:57	15.18	95.93
		04/19/95	09:15	13.41	97.70
		08/24/95	12:00	15.13	95.98
		11/12/95	12:45	15.17	95.94
13	117.12	11/29/93	09:15	16.41	100.71
		02/10/94	15:15	16.17	100.95
		06/14/94	10:00	16.46	100.66
		09/19/94	11:45	17.05	100.07
		01/20/95	10:37	17.30	99.82
		04/11/95	10:30	17.15	99.97
		08/24/95	15:10	17.47	99.65
		11/12/95	12:35	17.62	99.50
14	111.94	11/29/93	10:15	12.74	99.20
		02/14/94	16:00	11.22	100.72
		06/15/94	09:10	12.71	99.23
		09/20/94	11:30	13.32	98.62
		01/20/95	15:01	12.59	99.35
		04/19/95	15:01	12.23	99.71
		08/24/95	12:15	12.66	99.28
		11/12/95	12:05	12.75	99.19
15	114.53	11/29/93	02:20	13.05	101.48
		02/10/94	15:45	12.89	101.64
		06/14/94	10:45	12.81	101.72
		09/19/94	14:10	13.15	101.38
		01/17/95	11:50	13.17	101.36
		04/11/95	12:35	12.96	101.57
		08/24/95	10:00	13.35	101.18
		11/12/95	14:30	13.28	101.25

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
16	107.64	11/29/93	02:00	8.26	99.38
		02/10/94	15:30	8.03	99.61
		06/14/94	10:15	8.51	99.13
		09/19/94	12:00	8.92	98.72
		01/20/95	11:03	8.78	98.86
		04/11/95	10:55	8.69	98.95
		08/24/95	15:35	9.03	98.61
		11/12/95	12:15	8.96	98.68
17	100.84	11/29/93	03:50	4.11	96.73
		02/11/94	14:25	3.90	96.94
		06/14/94	14:12	5.01	95.83
		09/20/94	11:15	6.11	94.73
		01/20/95	14:22	6.10	94.74
		04/19/95	09:45	5.85	94.99
		08/24/95	17:00	6.39	94.45
		11/12/95	11:05	6.27	94.57
18	94.04	11/30/93	10:25	2.20	91.84
		02/11/94	10:10	1.75	92.29
		06/14/94	15:10	2.60	91.44
		09/19/94	15:45	3.29	90.75
		01/17/95	15:25	3.64	90.40
		04/11/95	16:00	3.54	90.50
		08/24/95	16:10	3.85	90.19
		11/12/95	08:50	3.75	90.29
19	93.64	11/30/93	09:20	2.25	91.39
		02/11/94	10:00	2.09	91.55
		06/14/94	13:40	2.55	91.09
		09/19/94	15:35	3.14	90.50
		01/17/95	15:04	3.02	90.62
		04/11/95	15:20	2.89	90.75
		08/24/95	16:05	3.59	90.05
		11/12/95	09:30	3.45	90.19
20	96.11	11/30/93	08:25	4.42	91.69
		02/10/94	16:17	4.30	91.81
		06/14/94	15:30	4.64	91.47
		09/19/94	14:45	5.15	90.96
		01/17/95	13:45	4.99	91.12
		04/11/95	13:52	4.81	91.30
		08/24/95	11:35	5.52	90.59
		11/12/95	08:40	5.45	90.66

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
21	94.34	11/30/93	08:45	1.90	92.44
		02/10/94	16:25	1.92	92.42
		06/14/94	15:15	2.64	91.70
		09/19/94	14:55	3.38	90.96
		01/17/95	14:08	3.09	91.25
		04/11/95	14:31	3.02	91.32
		08/24/95	11:20	3.83	90.51
		11/12/95	08:55	3.56	90.78
22	97.51	11/30/93	08:35	4.09	93.42
		02/10/94	16:25	3.75	93.76
		06/14/94	15:20	4.96	92.55
		09/19/94	15:05	5.69	91.82
		01/17/95	14:26	5.31	92.20
		04/11/95	14:17	5.29	92.22
		08/24/95	11:10	6.24	91.27
		11/12/95	09:10	5.82	91.69
23	115.77	09/20/94	11:50	13.82	101.95
		01/20/95	15:19	DRY	
		04/19/95	11:30	DRY	115.77
		08/24/95		DRY	DRY
		11/12/95	13:10	DRY	DRY
24	116.17	09/20/94	11:52	17.30	98.87
		01/20/95	15:16	17.83	98.34
		04/12/95	11:50	17.45	98.72
		08/24/95	17:45	17.84	98.33
		11/12/95	13:15	18.31	97.86
25	112.62	02/14/94	15:00	8.01	104.61
		06/14/94	16:04	9.58	103.04
		09/20/94	11:00	11.15	101.47
		01/20/95	15:15	13.78	98.84
		04/12/95	11:40	12.00	100.62
		08/24/95	18:10	11.94	100.68
		11/12/95	13:25	14.46	98.16

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
26	112.36	09/20/94	11:52	14.15	98.21
		01/20/95	15:46	14.30	98.06
		04/19/95	11:45	14.00	98.36
		08/24/95	18:30	14.32	98.04
		11/12/95		DESTROYED	
28	113.06	09/20/94	11:54	13.62	99.44
		01/20/95	15:22	14.71	98.35
		04/19/95	11:40	14.46	98.60
		08/24/95	18:45	14.91	98.15
		11/12/95	13:05	DRY	DRY
		08/24/95	18:55	14.65	97.26
		11/12/95	12:55	14.85	97.06
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TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
MW-1	01/20/95	1.71	2	2
	04/12/95	1.83	1	3
	08/24/95	1.47	2	5
	11/12/95	0.08	1.3	6.3
MW-12	09/14/93	2.00	NOT BAILED	
	11/29/93	1.97	6.5	6.5
	02/14/94	0.47	1.8	8.3
	03/23/94	0.06	0	8.3
	04/27/94	0.42	2.4	10.7
	05/17/94	0.83	6.4	17.1
	06/01/94	1.08	4.8	21.9
	06/15/94	1.87	6.4	28.3
	08/22/94	1.50	4	32.3
	09/20/94	3.17	12	44.3
	01/20/95	1.96	20	64.3
	04/12/95	1.81	4	68.3
	05/03/95	1.70	4	72.3
	06/19/95	1.90	3	75.3
	06/26/95	1.40	2	77.3
	08/24/95	1.69	4	81.3
	11/12/95	1.54	3.8	85.1
MW-14	09/14/93	0.50	0	
	11/29/93	1.49	4.8	4.8
	02/14/94	0.95	2.8	7.6
	03/23/94	--	0	7.6
	04/27/94	--	0	7.6
	05/17/94	--	0	7.6
	06/01/94	--	0	7.6
	06/15/94	1.30	1.6	9.2
	08/22/94	--	0	9.2
	09/20/94	1.18	1.5	10.7
	01/20/95	0.27	0.2	10.9
	04/12/95	0.42	0.3	11.2
	08/24/95	0.20	0	11.2
	11/12/95	0.04	0	11.2
MW-17	09/20/94	0.25	4	4
	01/20/95	0.27	4.5	8.5
	04/12/95	0.23	3	11.5
	08/24/95	0.39	5.7	17.2
	11/12/95	0.22	0	17.2
MW-23	06/01/94	0.00	0	0
	06/15/94	1.17	1.6	1.6
	08/22/94	1.71	1.8	3.4
	09/20/94	0.00	0	3.4
	01/20/95	DRY	0	3.4
	04/12/95	0.03	0	3.4
	08/24/95	0.25	0	3.4
	11/12/95	DRY	0	3.4

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
MW-26	02/14/94	0.00	0	
	03/23/94	0.50	1.6	1.6
	04/27/94	1.00	8	9.6
	05/17/94	1.00	8	17.6
	06/01/94	1.17	9.6	27.2
	06/15/94	0.74	3.2	30.4
	08/22/94	1.12	2	32.4
	09/20/94	0.08	0	32.4
	01/20/95	T	0	32.4
	04/12/95	0.06	0	32.4
	08/24/95	0.02	0	32.4
	11/12/95	DESTROYED	0	32.4
MW-27	02/14/94	0.00	0	0
	03/23/94	1.33	5.6	5.6
	04/27/94	1.00	8	13.6
	05/17/94	1.33	8.8	22.4
	06/01/94	1.67	8	30.4
	06/15/94	1.43	1.6	32
	08/22/94	0.00	0	32
	09/20/94	0.00	0	32
	01/20/95	DRY	0	32
	08/24/95	DRY	0	32
	11/12/95	DRY	0	32
MW-28	02/14/94	0.00	0	
	03/23/94	1.00	2.4	2.4
	04/27/94	0.83	4	6.4
	05/17/94	0.33	4.8	11.2
	06/01/94	0.42	3.2	14.4
	06/15/94	0.50	3.2	17.6
	08/22/94	0.83	4	21.6
	09/20/94	0.00	0	21.6
	01/20/95	0.00	0	21.6
	04/12/95	0.17	0	21.6
	08/24/95	0.23	1.8	23.4
	11/12/95	0.07	0	23.4
MW-29	02/14/94	0.00	0	0
	03/23/94	0.08	0	0
	04/27/94	0.25	3.2	3.2
	05/17/94	0.25	3.2	6.4
	06/01/94	0.50	6.4	12.8
	06/15/94	2.36	4.8	17.6
	08/22/94	1.17	1.8	19.4
	09/20/94	1.10	1.8	21.2
	01/20/95	0.78	1.2	22.4
	04/12/95	1.09	0.5	22.9
	08/24/95	0.72	2.7	25.6
	11/12/95	0.78	1.3	26.9

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
T17-1	06/15/94	1.62	8	8
	01/20/95	0.80	4	12
	04/12/95	1.20	4	16
	08/24/95	0.93	2	18
	11/12/95	0.61	6	24
T17-4	06/15/94	1.13	*	
	01/20/95	1.57	*	
	04/12/95	1.22	*	
	08/24/95	REMOVED		
T17-5	06/15/94	0.84	3.2	3.2
	01/20/95	1.45	6	9.2
	04/12/95	dry	0	9.2
	08/24/95	REMOVED		9.2
R-1	03/23/94	0.75	8	8
	04/27/94	1.17	8	16
	05/17/94	0.75	5.6	21.6
	06/01/94	0.83	4.8	26.4
	06/15/94	1.25	6.4	32.8
	08/22/94	0.83	8	40.8
	09/20/94	0.12	1.5	42.3
	01/20/95	T	0	42.3
	04/12/95	T	0	42.3
	08/24/95	DRY	0	42.3
	11/12/95	REMOVED		
R-3	03/23/94	1.00	12.8	12.8
	04/27/94	2.08	14.4	27.2
	05/17/94	1.00	6.4	33.6
	06/01/94	1.17	6.4	40
	06/15/94	0.42	8	48
	08/22/94	1.00	9	57
	09/20/94	0.33	1.5	58.5
	01/20/95	T	0	58.5
	04/12/95	T	0	58.5
	08/24/95	DRY	0	58.5
	11/12/95	REMOVED		
R-8	03/23/94	1.50	36.8	36.8
	04/27/94	0.33	3.2	40
	05/17/94	1.33	14.4	54.4
	06/01/94	1.50	19.2	73.6
	06/15/94	1.33	16	89.6
	08/22/94	2.75	20	109.6
	09/20/94	1.50	12	121.6
	01/20/95	T	0	121.6
	04/12/95	T	0	121.6
	08/24/95	DRY	0	121.6
	11/12/95	REMOVED		

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
R-9	03/23/94	2.17	20	20
	04/27/94	2.25	20	40
	05/17/94	2.42	20	60
	06/01/94	2.42	20	80
	06/15/94	2.42	20	100
	08/22/94	0.00	0	100
	09/20/94	0.25	2	102
	01/20/95	T	0	102
	04/12/95	T	0	102
	08/24/95	DRY	0	102
	11/12/95	REMOVED		
R-12	03/23/94	2.25	20	20
	04/27/94	2.33	20	40
	05/17/94	2.33	20	60
	06/01/94	2.67	20	80
	06/15/94	2.50	20	100
	08/22/94	2.67	20	120
	09/20/94	1.17	9	129
	01/20/95	T	0	129
	04/12/95	T	0	129
	08/24/95	DRY	0	129
	11/12/95	REMOVED		
R-13	03/23/94	2.04	20	20
	04/27/94	2.42	20	40
	05/17/94	2.42	20	60
	06/01/94	2.50	20	80
	06/15/94	2.67	20	100
	08/22/94	0.75	8	108
	09/20/94	0.12	1.5	109.5
	01/20/95	T	0	109.5
	04/12/95	T	0	109.5
	08/24/95	DRY	0	109.5
	11/12/95	REMOVED		
R-14	03/23/94	2.12	20	20
	04/27/94	2.33	20	40
	05/17/94	2.50	20	60
	06/01/94	2.67	20	80
	06/15/94	2.67	20	100
	08/22/94	0.25	3	103
	09/20/94	0.12	0	103
	01/20/95	T	0	103
	04/12/95	T	0	103
	08/24/95	DRY	0	103
	11/12/95	REMOVED		

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED		ACCUM. Liters
R-24	01/20/95	0.80	360	**	360
	03/14/95	0.82	4		364
	03/23/95		1		365
	04/12/95	0.75	7		372
	05/03/95	0.60	2		374
	06/19/95	0.40	2		376
	06/26/95	0.40	1		377
	08/25/95	0.00	0		377
	11/12/95	1.19	7.6		384.6
R-25	01/20/95	0.90	100	**	100
	03/14/95	1.18	16		116
	03/23/95		6		122
	04/12/95	1.00	18		140
	05/03/95	0.95	4.3		144.3
	06/19/95	0.9	8		152.3
	06/26/95	0.9	6		158.3
	08/25/95	0	0		158.3
	11/12/95	0.52	7.5		165.8
STRIPPER TANK	01/20/95		800		800
	03/03/95		640		1440
	03/31/95		640		2080
	04/21/95		320		2400
	05/08/95		800		3200
	05/10/95		1200		4400
	05/24/95		600		5000
	05/31/95		600		5600
	06/09/95		400		6000
	06/16/95		400		6400
	08/25/95		0		6400
	11/12/95		300		6700
TOTAL THIS QUARTER					
TOTAL TO DATE					8,187.4

ND - NON-DETECT (no visible product detected in the bailer)

* - Couldn't get the bailer down the well.

** - Pumped with a down hole bladder pump.

810\QMRTABL2

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-1	11/29/93	TRACE				
	02/11/94	7.1210	0.0630	0.2270	0.5970	
	06/22/94	0.0600	0.0240	0.5800	0.1206	1.6280
	09/20/94	9.8510	0.0105	0.2140	0.8960	0.3820
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-2	11/29/93	2.1150	0.1360	0.3950	0.5830	
	02/11/94	3.4780	0.0630	0.5810	0.7860	
	06/22/94	1.0700	0.0239	0.0139	0.4732	0.1380
	09/20/94	3.0050	0.0380	0.3690	0.5096	0.0880
	01/20/95	1.5810	0.0159	0.3950	0.5317	0.0830
	04/12/95	3.0500	0.1700	0.6360	0.8731	0.2290
	08/24/95	2.0730	0.0550	0.3910	0.4471	0.3190
	11/12/95	2.2900	0.0980	0.5360	0.5660	0.3340
MW-3	11/30/93	ND	ND	0.0011	0.0007	
	02/11/94	ND	ND	ND	ND	
	06/22/94	0.0128	ND	ND	0.0011	0.0236
	09/19/94	0.0730	0.0009	0.0006	0.0023	0.0390
	01/20/95	0.0262	0.0010	0.0048	0.0042	0.1110
	04/12/95	0.1240	0.0004	0.0082	0.0044	0.2010
	08/24/95	0.0106	0.0024	ND	0.0017	0.2130
	11/12/95	0.0028	0.0018	ND	0.0016	0.2640
MW-4	11/30/93	0.1000	0.0053	0.0013	0.0035	
	02/11/94	1.1270	0.0100	0.0310	0.0990	
	06/22/94	0.0226	0.0040	0.0003	0.0024	0.0283
	09/19/94	0.0640	0.0055	0.0008	0.0068	0.0570
	01/17/95	0.3910	0.0082	0.0290	0.2040	0.0530
	04/11/95	0.4290	0.0052	0.0112	0.0104	0.0468
	08/24/95	0.0051	0.0049	0.0012	0.0065	0.0309
	11/12/95	0.0030	0.0050	0.0009	0.0068	0.0350
MW-5	11/30/93	0.0011	ND	ND	ND	
	02/11/94	0.0060	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0312
	09/19/94	0.0030	ND	0.0004	0.0011	0.0412
	01/17/95	0.0028	ND	ND	ND	0.0550
	04/11/95	0.0031	ND	ND	ND	0.0657
	08/24/95	ND	ND	0.0002	0.0010	0.0477
	11/12/95	0.0037	0.0004	0.0008	0.0011	0.0458

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-6	11/29/93	0.0082	0.0020	0.0022	0.0019	
	02/11/94	0.0230	0.0170	0.0150	0.0720	
	06/22/94	0.2340	0.0016	0.0337	0.0015	0.0338
	09/19/94	0.0560	0.0047	0.0028	0.0067	0.0418
	01/20/95	0.0009	0.0050	0.0014	0.0054	0.0195
	04/12/95	0.0270	0.0181	0.0026	0.0102	0.0211
	08/24/95	0.0029	0.0013	0.0002	0.0016	0.0266
	11/12/95	0.0018	0.0021	0.0006	0.0012	0.0280
MW-7	11/29/93	3.5410	0.9710	0.4190	1.9180	
	02/11/94	14.3990	2.0620	0.6300	4.1270	
	06/22/94	4.0830	0.6950	0.3010	1.7170	0.0670
	09/19/94	4.0860	0.2550	0.2110	0.5650	0.0890
	01/20/95	0.1760	0.1250	0.0500	0.4330	0.0680
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-8	11/29/93	0.0034	ND	0.0004	0.0010	
	02/11/94	0.0010	0.0007	0.0003	0.0010	
	06/14/94	0.0018	0.0004	ND	ND	0.0470
	09/19/94	0.0045	0.0005	ND	0.0003	0.0650
	01/17/95	0.0022	0.0004	ND	0.0003	0.0750
	04/11/95	0.0013	ND	0.0003	0.0017	0.0876
	08/24/95	DRY				
	11/12/95	DRY				
MW-9	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	0.0156
	09/19/94	0.2210	0.0005	ND	ND	0.0510
	01/17/95	0.0483	ND	ND	ND	0.0469
	04/11/95	0.0558	ND	0.0003	0.0005	0.0400
	08/24/95	0.0710	ND	ND	0.0005	0.0710
	11/12/95	0.0013	0.0082	0.0020	0.0136	0.0358
MW-10	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	0.0003
	01/17/95	ND	ND	ND	ND	0.0003
	04/11/95	0.0015	ND	ND	0.0003	ND
	08/24/95	0.0042	0.0020	0.0051	0.0141	0.0011
	11/12/95	ND	0.0026	0.0006	0.0051	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-11	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	0.0002	0.0005	ND
	08/24/95	0.0017	ND	0.0008	0.0024	ND
	11/12/95	0.0005	0.0017	0.0005	0.0042	ND
MW-12	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/17/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-13	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	ND
	06/14/94	ND	ND	ND	0.0005	ND
	09/19/94	ND	ND	ND	0.0002	ND
	01/20/95	ND	ND	ND	0.0002	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	ND	0.0003
	11/12/95	0.0021	0.0060	0.0024	0.0209	ND
MW-14	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-15	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	0.0005	ND
	11/12/95	0.0003	0.0027	0.0004	0.0032	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-16	11/29/93	ND	ND	0.0024	0.0006	
	02/11/94	ND	ND	0.0050	0.0010	
	06/14/94	ND	ND	0.0027	0.0003	ND
	09/19/94	ND	0.0003	0.0006	0.0009	ND
	01/20/95	ND	ND	0.0005	0.0005	0.0003
	04/11/95	ND	ND	0.0003	0.0008	ND
	08/24/95	ND	ND	0.0007	0.0016	ND
	11/12/95	ND	0.0005	0.0019	0.0127	ND
MW-17	11/29/93	21.2720	5.2850	1.0630	8.3570	
	02/11/94	61.5850	25.4200	1.6580	12.7870	
	06/22/94	21.6100	15.5510	0.8480	7.7600	0.0900
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-18	11/30/93	0.1400	0.0088	0.0153	0.1330	
	02/11/94	0.3610	0.0090	0.0250	0.2450	
	06/22/94	0.0020	ND	ND	ND	0.0335
	09/19/94	0.4090	0.0042	0.0375	0.2406	0.0470
	01/17/95	0.0920	0.0032	0.0131	0.0957	0.0433
	04/11/95	0.0766	0.0014	0.0041	0.0122	0.0300
	08/24/95	0.1780	0.0030	0.0155	0.0098	0.0357
	11/12/95	0.3140	0.0062	0.0326	0.1667	0.0337
MW-19	11/30/93	0.0245	0.0118	0.2580	0.6582	
	02/11/94	0.0580	0.0200	0.5450	1.4580	
	06/22/94	0.0058	0.0069	0.0112	0.0491	0.0246
	09/19/94	0.0620	0.0040	0.1960	0.4992	0.0433
	01/17/95	0.0083	0.0037	0.1460	0.3364	0.0159
	04/11/95	0.0055	0.0016	0.1390	0.3020	0.0079
	08/24/95	0.0074	0.0027	0.0680	0.1251	0.0320
	11/12/95	0.0177	0.0060	0.2010	0.3520	0.0630
MW-20	11/30/93	0.0277	0.0165	0.1300	0.5551	
	02/11/94	0.0380	0.0220	0.0840	0.3500	
	06/22/94	0.0104	0.0111	0.0122	0.0207	0.1090
	09/19/94	0.0245	0.0176	0.0100	0.0327	0.1120
	01/17/95	0.0065	0.0173	0.0211	0.0600	0.1090
	04/11/95	0.0016	0.0058	0.0021	0.0120	0.1370
	08/24/95	0.0003	0.0067	0.0023	0.0106	0.1040
	11/12/95	0.0043	0.0152	0.0059	0.0089	0.1390

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-21	11/30/93	0.0171	0.0046	0.0050	0.0023	
	02/11/94	0.0820	0.0090	0.0260	0.0060	
	06/22/94	0.0173	0.0025	0.0019	0.0019	0.0451
	09/19/94	0.0014	0.0032	0.0009	0.0008	0.0418
	01/17/95	0.0510	0.0080	0.0410	0.0663	0.0392
	04/11/95	0.0034	0.0012	0.0005	0.0016	0.0626
	08/24/95	0.0050	0.0006	0.0004	0.0010	0.0700
	11/12/95	0.0006	0.0007	ND	0.0007	0.0610
MW-22	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0392
	09/19/94	ND	ND	ND	ND	0.0358
	01/17/95	ND	ND	ND	ND	0.0408
	04/11/95	ND	ND	ND	ND	0.0353
	08/24/95	ND	ND	ND	0.0004	0.0256
	11/12/95	0.0007	0.0008	0.0002	0.0008	0.0250
MW-23	02/11/94	198.5730	190.8910	7.2400	48.8370	
	06/22/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	DRY				
	04/12/95	DRY				
	08/24/95	DRY				
	11/12/95	DRY				
MW-25	11/29/93	2.3730	0.0112	0.1330	0.3454	
	02/11/94	7.3150	0.0700	0.1150	0.5880	
	06/22/94	NOT SAMPLED				
	09/20/94	5.0500	0.0377	0.0930	0.7360	0.1090
	01/20/95	NOT SAMPLED				
	04/12/95	0.2450	0.0015	0.0036	0.0233	0.0753
	08/24/95	1.6410	0.0153	0.1080	0.1610	0.1000
	11/12/95	1.2070	1.9790	0.3980	2.4700	0.0660
EFFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0021	0.0016	0.0013	0.0038	
	02/11/94	BLOWER SHUT DOWN				
	06/22/94	BLOWER SHUT DOWN				
	09/20/94	0.0093	0.0009	ND	0.0007	ND
	01/20/95	NOT SAMPLED				
	04/12/95	0.0975	0.3630	0.2780	2.6390	0.0075
	11/12/95	0.0339	0.0123	0.0089	0.0481	0.0032

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
INFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0015	0.0009	0.0017	0.0023	
	02/11/94	0.0010	ND	ND	0.0040	
	06/22/94	PUMP SHUT DOWN				
	09/20/94	9.6700	0.7540	0.1580	0.6330	0.0500
	01/20/95	NOT SAMPLED				
	04/12/95	2.0600	0.9870	0.2460	1.6890	0.0245
NMWQCC	12/24/87	0.0100	0.7500	0.7500	0.6200	0.1000

ND - NON-DETECT

810\QMRTABL3

APPENDIX A

BioTech LABORATORIES
710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Office (505) 632-3365
Fax (505) 632-9850



EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-2	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0909	ANALYSIS:	BTEX/MTBE

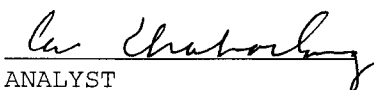
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	334	15.0
BENZENE	2290	10.0
TOLUENE	98	10.0
ETHYLBENZENE	536	10.0
P,M-XYLENE	500	15.0
O-XYLENE	66	15.0

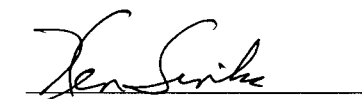
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	102	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-2, Thriftway site #810.


ANALYST


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-3	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0910	ANALYSIS:	BTEX/MTBE

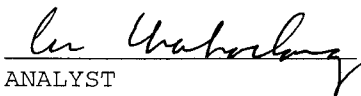
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	264	0.3
BENZENE	2.8	0.2
TOLUENE	1.8	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.7	0.3
O-XYLENE	0.9	0.3

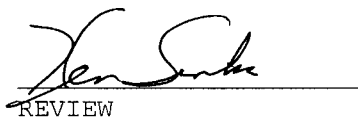
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	90	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-3, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-4	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0911	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	35.0	0.9
BENZENE	3.0	0.3
TOLUENE	5.0	0.4
ETHYLBENZENE	0.9	0.4
P,M-XYLENE	3.4	0.9
O-XYLENE	3.4	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-4, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-5	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0907	ANALYSIS:	BTEX/MTBE

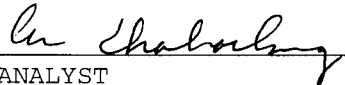
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	45.8	0.3
BENZENE	3.7	0.2
TOLUENE	0.4	0.2
ETHYLBENZENE	0.8	0.2
P,M-XYLENE	1.1	0.3
O-XYLENE	ND	0.3

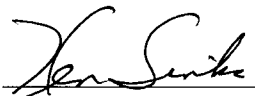
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-5, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-6	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0912	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	28.0	0.9
BENZENE	1.8	0.3
TOLUENE	2.1	0.4
ETHYLBENZENE	0.6	0.4
P,M-XYLENE	1.2	0.9
O-XYLENE	ND	0.4

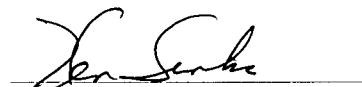
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	104	80 - 120%
	BROMOFLUOROBENZENE	109	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-6, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-9	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0917	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	35.8	0.9
BENZENE	1.3	0.3
TOLUENE	8.2	0.4
ETHYLBENZENE	2.0	0.4
P,M-XYLENE	10.6	0.9
O-XYLENE	3	0.4

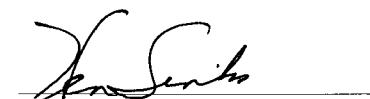
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	100	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-9, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-10	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0918	ANALYSIS:	BTEX/MTBE

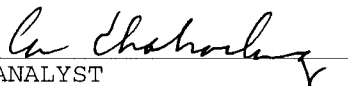
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	ND	0.3
TOLUENE	2.6	0.4
ETHYLBENZENE	0.6	0.4
P,M-XYLENE	3.9	0.9
O-XYLENE	1.2	0.4

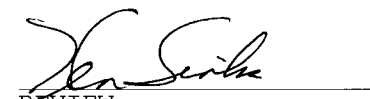
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	108	80 - 120%
	BROMOFLUOROBENZENE	103	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-10, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-11	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0919	ANALYSIS:	BTEX/MTBE

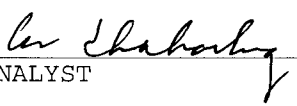
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	0.5	0.3
TOLUENE	1.7	0.4
ETHYLBENZENE	0.5	0.4
P,M-XYLENE	3.4	0.9
O-XYLENE	0.8	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	105	80 - 120%
	BROMOFLUOROBENZENE	104	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-11, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-13	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0913	ANALYSIS:	BTEX/MTBE

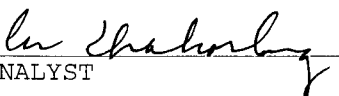
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	2.1	0.3
TOLUENE	6.0	0.4
ETHYLBENZENE	2.4	0.4
P,M-XYLENE	15.9	0.9
O-XYLENE	5.0	0.4

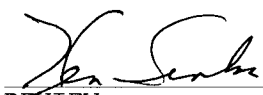
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	103	80 - 120%
	BROMOFLUOROBENZENE	105	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-13, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-15	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0920	ANALYSIS:	BTEX/MTBE

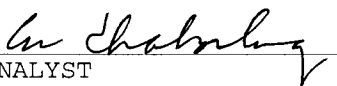
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	0.3	0.3
TOLUENE	2.7	0.4
ETHYLBENZENE	0.4	0.4
P,M-XYLENE	2.4	0.9
O-XYLENE	0.8	0.4

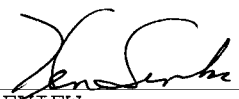
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-15, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-16	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0914	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	ND	0.3
TOLUENE	0.5	0.4
ETHYLBENZENE	1.9	0.4
P,M-XYLENE	9.7	0.9
O-XYLENE	3.0	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	106	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-16, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-18	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0908	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	33.7	0.3
BENZENE	314	0.2
TOLUENE	6.2	0.2
ETHYLBENZENE	32.6	0.2
P,M-XYLENE	163	0.3
O-XYLENE	3.7	0.3

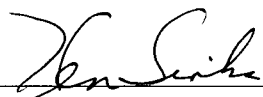
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	92	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-18, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-19	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0906	ANALYSIS:	BTEX/MTBE

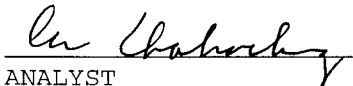
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	63	0.3
BENZENE	17.7	0.2
TOLUENE	6.0	0.2
ETHYLBENZENE	201	0.2
P,M-XYLENE	346	0.3
O-XYLENE	6.0	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	105	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-19, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-20	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0903	ANALYSIS:	BTEX/MTBE

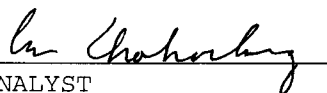
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	139	0.3
BENZENE	4.3	0.2
TOLUENE	15.2	0.2
ETHYLBENZENE	5.9	0.2
P,M-XYLENE	7.8	0.3
O-XYLENE	1.1	0.3

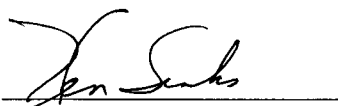
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	100	80 - 120%
	BROMOFLUOROBENZENE	111	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-20, Thriftway site #810.


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-21	DATE ANALYZED:	Nov 14, 1995
SAMPLE NUMBER:	0904	ANALYSIS:	BTEX/MTBE

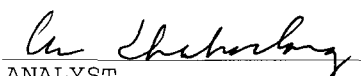
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	61	0.9
BENZENE	0.6	0.3
TOLUENE	0.7	0.4
ETHYLBENZENE	ND	0.4
P,M-XYLENE	ND	0.9
O-XYLENE	0.7	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-21, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-22	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0905	ANALYSIS:	BTEX/MTBE

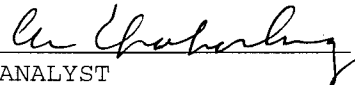
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	25.0	0.3
BENZENE	0.7	0.2
TOLUENE	0.8	0.2
ETHYLBENZENE	0.2	0.2
P,M-XYLENE	0.8	0.3
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-22, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-25	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0916	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	66	45.0
BENZENE	1207	15.0
TOLUENE	1979	20.0
ETHYLBENZENE	398	20.0
P,M-XYLENE	1884	45.0
O-XYLENE	586	20.0

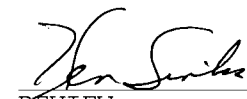
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	108	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-25, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	STRIPPER DISCHARGE	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0921	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	3.2	4.5
BENZENE	33.9	1.5
TOLUENE	12.3	2.0
ETHYLBENZENE	8.9	2.0
P,M-XYLENE	39.9	4.5
O-XYLENE	8.2	2.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	98	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Stripper Discharge, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	STRIPPER BOX	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0922	ANALYSIS:	BTEX/MTBE

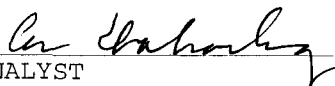
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	4.9	4.5
BENZENE	33.1	1.5
TOLUENE	10.4	2.0
ETHYLBENZENE	5.0	2.0
P,M-XYLENE	9.9	4.5
O-XYLENE	2.7	2.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Stripper Box, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	SEPARATOR	DATE ANALYZED:	Nov 14, 1995
SAMPLE NUMBER:	0923	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	55	90.0
BENZENE	4573	30.0
TOLUENE	1107	40.0
ETHYLBENZENE	327	40.0
P,M-XYLENE	718	90.0
O-XYLENE	177	40.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	97	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Separator, Thriftway site #810.


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**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-5	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0907	ANALYSIS:	BTEX/MTBE

SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	45.8	66	0.3	100	-
BENZENE	3.7	22	0.2	94	39 - 150%
TOLUENE	0.4	19	0.2	91	46 - 148%
ETHYLBENZENE	0.8	19	0.2	91	32 - 160%
P,M-XYLENE	1.1	38	0.3	92	-
O-XYLENE	ND	18	0.3	92	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-11	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0919	ANALYSIS:	BTEX/MTBE

SPIKE CONCENTRATION (ug/L) = 20.0

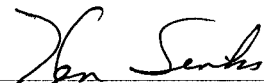
ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	ND	20.0	0.9	99	-
BENZENE	0.5	19.9	0.3	97	39 - 150%
TOLUENE	1.7	21.4	0.4	98	46 - 148%
ETHYLBENZENE	0.5	20.0	0.4	98	32 - 160%
P,M-XYLENE	3.4	41.3	0.9	95	-
O-XYLENE	0.8	20.5	0.4	99	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	11135AM.00	ANALYSIS:	BTEX/MTBE

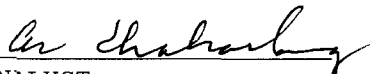
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.3
BENZENE	ND	0.2
TOLUENE	ND	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.3

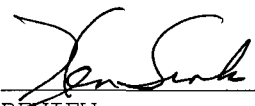
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	91	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	11135PM.00	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	ND	0.3
TOLUENE	ND	0.4
ETHYLBENZENE	ND	0.4
P,M-XYLENE	ND	0.9
O-XYLENE	ND	0.4

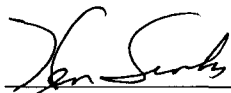
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

11202

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS						Remarks
Sample No./ID	Date	Time	Tape No.	Lab No.	Matrix	No. Cont.	BTEX	MTBE		
T-Wha Ref. # 810		Blomfield, NM								
Sampler: (Signature) <i>Rose Kerner</i>										
M10-20	11-12-95	0840	0903	Water	2	✓				
M10-21	11-13-95	0855	0904	Water	2	✓				
M10-22	11-14-95	0910	0905	Water	2	✓				
M10-17	11-12-95	0930	0906	Water	2	✓				
M10-5	11-14-95	0940	0907	Water	2	✓				
M10-13	11-14-95	0950	0908	Water	2	✓				
M10-2	11-14-95	1000	0909	Water	2	✓				
M10-3	11-14-95	1020	0910	Water	2	✓				
M10-4	11-14-95	1040	0911	Water	2	✓				
M10-6	11-14-95	1045	0912	Water	2	✓				
Relinquished by: (Signature) <i>Rose Kerner</i>		Date	Time	Received by: (Signature) <i>Mr. Shabbar</i>						
Relinquished by: (Signature)				Received by: (Signature)						
Relinquished by: (Signature)				Received by: (Signature)						

11203

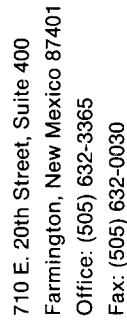
CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS						Remarks
Sample No./ID	Date	Time	Tape No.	Lab No.	Matrix	No. Cont.	STEX	MTBE		
Zig. Refinery # 810		Bloomfield, NM								
Sampler: (Signature) <i>Scott Bennett</i>										
MW-13	11-12-95	1235	0913	water	2	✓	✓			
MW-16	11-12-95	1215	0914	water	2	✓	✓			
MW-24	11-12-95	1315	0915	water	2	✓	✓			
MW-25	11-12-95	1325	0916	water	2	✓	✓			
MW-9	11-12-95	1340	0917	water	2	✓	✓			
MW-10	11-12-95	1400	0918	water	2	✓	✓			
MW-11	11-12-95	1415	0919	water	2	✓	✓			
MW-15	11-12-95	1430	0920	water	2	✓	✓			
Stripper Discharge	11-12-95	1455	0921	water	2	✓	✓			
Stripper Box	11-12-95	1510	0922	water	2	✓	✓			
Relinquished by: (Signature) <i>Scott Bennett</i>		Date		Time		Received by: (Signature) <i>Ch. Chaharbagy</i>				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)				

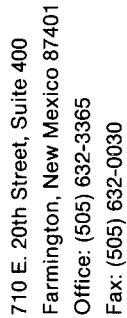
11203

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS							Remarks
Sample No./ID	Date	Time	Lab No.	Matrix	No. Cont.	RTK	MTE				
I-Water Refinery # 210		Blumenfeld, NM									
Sampler: (Signature) <i>[Signature]</i>		Tape No.									
MW-13	11-12-95	1235	0913	Water	2	✓	✓				
MW-16	11-12-95	1315	0914	Water	2	✓	✓				
MW-34	11-12-95	1315	0915	Water	2	✓	✓				
MW-25	11-12-95	1325	0916	Water	2	✓	✓				
MW-9	11-12-95	1340	0917	Water	2	✓	✓				
MW-10	11-12-95	1400	0918	Water	2	✓	✓				
MW-11	11-12-95	1415	0919	Water	2	✓	✓				
MW-15	11-12-95	1430	0920	Water	2	✓	✓				
Stripper Drainage	11-12-95	1455	0921	Water	2	✓	✓				
Stripper Pox	11-12-95	1510	0922	Water	2	✓	✓				
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature) <i>[Signature]</i>							
Relinquished by: (Signature) <i>[Signature]</i>		11-12-95	0900	Received by: (Signature) <i>[Signature]</i>							
Relinquished by: (Signature)				Received by: (Signature)							



CHAIN OF CUSTODY RECORD



CHAIN OF CUSTODY RECORD

DAILY LOG BAILING OF FREE PRODUCT

DATE: 11-10-95

LOCATION: REFINERY
BLOOMFIELD

TECHNICIAN: K. Shannon

f:\files\baillog

MONITOR WELL	ORS WATER LEVEL	100' TAPE PROBE LEVEL	DEPTH OF FREE PRODUCT	GALLONS OF FREE PRODUCT RECOVERED
R-24				1/2 GAL.
R-25				1 GAL
MW-12				1/2 GAL
T-17-1				1 PINT

HIT BOTTOM OF WELL

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS, 33 FT
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 10-27-95

LOCATION: ~~712~~ 813

TECHNICIAN: K. Shannon

f:\files\baillog

[illegible]

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT.)
100' TAPE
ORS PROBE

DAILY LOG BAILING OF FREE PRODUCT

DATE: 10-30-95

LOCATION: REFINERY
(Bloomfield)

TECHNICIAN: K. Shannon

f:\files\baillog

MONITOR WELL	ORS WATER LEVEL	100' TAPE PRODUCT LEVEL	DEPTH OF FREE PRODUCT	GALLONS OF FREE PRODUCT RECOVERED
MW-17				0
MW-7				0
MW-7				2 oz.
MW-14				0
T-17-1				1 pint
MW-23				0
MW-28				0
MW-29				2 oz

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT.)
100' TAPE
ORS PROBE

BioTech REMEDIATION Inc.

710 East 20th Street, Suite 400 • Farmington, NM 87401 • (505) 632-3365 • Fax (505) 632-9850

**QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NM 87413**

RECEIVED

OCT 23 1995

Environmental Bureau
Oil Conservation Division

**PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER**

**BY
BIOTECH REMEDIATION, INC.
710 EAST 20TH ST., SUITE #400
FARMINGTON, NEW MEXICO 87401**

AUGUST 24, 1995

QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO



710 East 20th Street, Suite 400
Farmington, New Mexico 87401
Field Office: (505) 632-3365
Fax: (505) 632-9850

PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER

AUGUST 24, 1995

BY
BIOTECH REMEDIATION INC.
710 EAST 20TH ST., SUITE 400
FARMINGTON, NEW MEXICO 87401

PREPARED BY:

A handwritten signature in black ink, appearing to read "Ross Kenner", written over a horizontal line.

ROSS KENNER
PROJECT SCIENTIST/MANAGER

810\QM081495

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1.0 INTRODUCTION

In compliance with Ground Water Discharge Plan GW-55 and pursuant to the requirements of the New Mexico Oil Conservation Division (NMOCD), BioTech Remediation, Inc., (BioTech) on behalf of Thriftway Marketing Corporation (Thriftway), submits this monitoring and sampling update report.

Documented are the field activities and analytical results for the August 1995 Quarterly Monitoring event. All monitoring and sample collection methods strictly adhered to those outlined in the regulations and previous monitoring reports.

Previously, Jack Dewey served as Project Manager for the Thriftway Refinery. Due to scheduling conflicts, the aforesigned will now serve as Project Scientist and Manager. All future correspondence should be directed as such.

2.0 QUARTERLY MONITORING FIELD ACTIVITIES

On August 24, 1995, BioTech personnel completed the August Quarterly Monitoring field activities which included the following tasks:

1. Ground water elevation measurements for each monitoring well
2. Collected ground water samples from all monitoring wells producing sufficient water.
3. Measured phase-separated product
4. Hand bailed product from wells containing phase separated product

A measurement from the top of the casing to ground water was obtained on all monitoring wells, currently producing water, via an ORS Oil/Water Interface Probe. Two (2) of the twenty-nine (29) ground water monitoring wells measured, were dry during this monitoring event. A current ground water contour map is provided in Figure 1 and Table 1 provides a summary of the ground water measurement data.

Following well measurement, approximately three (3) casing volumes were hand bailed via a new plastic bailer. The well was then allowed time (5-7 min.) to recharge, after which two (2) samples were collected. Sample viles were filled so that no head space existed. Samples were preserved with mercuric chloride and retained on ice until delivery to BioTech Water Quality Laboratory. A summary of the laboratory analysis data is provided in Table 3. A 10 ppb Benzene plume map has been plotted and is provided as Figure 3.

Ground water samples were collected from wells which did not indicate the presence of phase-separated product. Wells with free product were measured (ORS Probe) for thickness, a hand bailer was then utilized to remove as much product as possible. Table 2 summarizes the measured product thickness and the product plume map is provided as Figure 2.

3.0 DISCUSSION

Current measurements indicate that the depth to ground water has increased (water table drop) in the monitoring wells located down gradient of the fire pond. This instance is attributed to the lack of ground water mounding which is artificially created by discharging the treated water from the air stripper system into the fire pond. During most of this quarter, the air stripper system has not been in operation, therefore no discharge has occurred.

The entire ground water treatment system at the refinery has been removed from service for general repair and modification. An oil water separator and new influent pump have been installed. A 5000 gallon horizontal AST has been set to collect hydrocarbon discharge from the separator. This modified system should increase productivity while enhancing cost effectiveness. Final repairs are currently being made and the system will shortly be returned to service. Once the system is again in operation and the fire pond is receiving water, anomalous ground water elevations will adjust accordingly.

As a result of bailing, phase separated product thickness has decreased in many of the monitoring wells. BioTech personnel will begin to hand bail, on a monthly basis, the monitoring wells containing phase separated product. The recovered product will be stored in the newly installed AST.

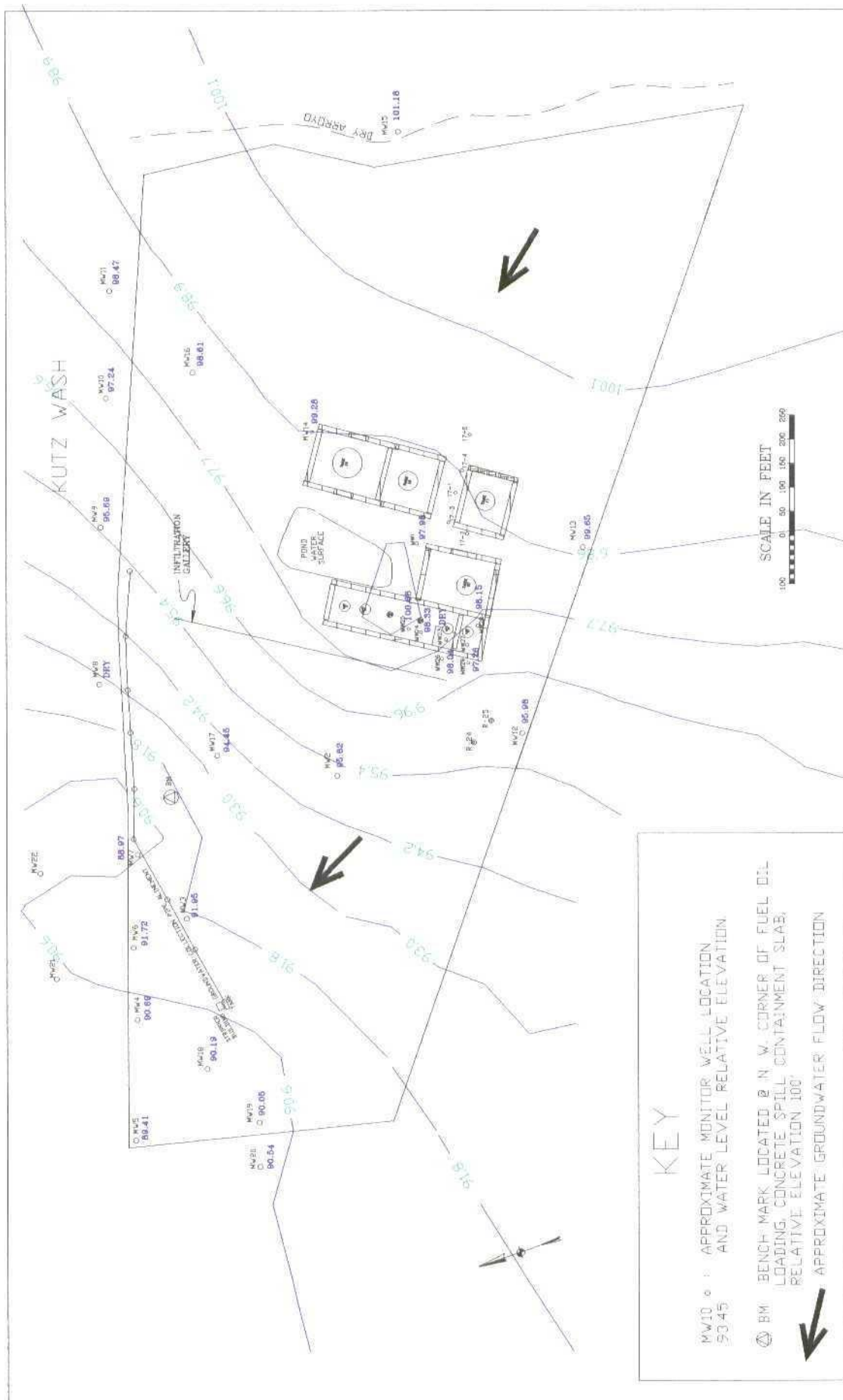
A total of 16.2 liters of product was removed from the monitoring wells during this sampling event. Accumulated product in the stripper UST was not removed during this quarter. The quantity removed from the stripper UST remains at 6400 liters to date and to date. 158.3 liters of product have been bailed from the sites monitoring wells. As previously noted, BioTech will continue to hand bail product on a regular basis. Product which accumulates in the

stripper UST, will no longer be removed via an oil mop system but rather be pumped along with the water through the newly installed separator.

Some monitoring wells which are screened in a manner to collect only phase separated product and all of the six inch (6") recovery wells have proved to be dry, rendering them ineffective for several quarters. The location of these wells prevents the influence of recharge from the fire pond. BioTech strongly believes that the liability of these inactive wells far exceeds the benefit they might possibly have and therefore, propose that they be properly decommissioned. This matter is beyond the scope of this report but should be addressed with future correspondence.

In conclusion, BioTech remains confident that the regularly scheduled bailing and the air stripper system will continue to successfully reduce ground water contaminants. The modifications which have been completed and those currently being completed should only further enhance the success.

FIGURES



THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810\NL082495 \$<D

ENGINEER: R. KENNEMER
DRAWN BY: K. SINKS

FIG. 1: GROUND WATER
CONTOUR MAP

AUGUST 24, 1995



710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
OFFICE: (505) 632-3365
FAX: (505) 632-0030

KUTZ WASH



SCALE IN FEET
0 50 100 150 200 250

KEY

MW10 = APPROXIMATE MONITOR WELL LOCATION
0.35P DEPTH OF FREE PRODUCT IN FEET.

BM BENCHMARK LOCATED @ N.W. CORNER OF FUEL OIL
LOADING CONCRETE SPILL CONTAINMENT SLAB,
RELATIVE ELEVATION 100'

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810N824950IL SKD

ENGINEER: R. KENNEMER
DRAWN BY: K. SINKS

FIG. 2: FREE PRODUCT
CONTOUR MAP

AUGUST 24, 1995

BioTech
REMEDICATION

710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
OFFICE: (505) 632-3365
FAX: (505) 632-0030

TABLES

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
1	114.08	09/14/93	-	13.52	100.56
		11/29/93	09:30	13.51	100.57
		02/11/94	16:15	12.97	101.11
		06/14/94	14:50	13.70	100.38
		09/20/94	10:55	14.60	99.48
		01/20/95	11:21	16.08	98.00
		04/19/95	10:10	15.52	98.56
		08/24/95	18:30	16.1	97.98
2	107.62	09/14/93		10.27	97.35
		11/29/93	15:33	10.23	97.39
		02/11/94	14:10	9.91	97.71
		06/14/94	13:30	10.59	97.03
		09/20/94	09:25	11.43	96.19
		01/20/95	13:39	11.73	95.89
		04/12/95	10:10	11.57	96.05
		08/24/95	17:25	11.80	95.82
3	96.28	09/14/93		1.95	94.33
		11/30/93	10:10	1.72	94.56
		02/11/94	11:25	1.27	95.01
		06/14/94	14:05	2.40	93.88
		09/19/94	15:25	3.93	92.35
		01/20/95	12:10	4.75	91.53
		04/12/95	08:36	5.21	91.07
		08/24/95	17:00	4.33	91.95
4	95.82	09/13/93		3.65	92.17
		11/30/93	09:55	3.15	92.67
		02/11/94	10:55	2.93	92.89
		06/14/94	14:00	3.85	91.97
		09/19/94	16:05	4.55	91.27
		01/17/95	16:09	4.77	91.05
		04/11/95	16:30	4.62	91.20
		08/28/95	16:45	5.13	90.69
5	94.66	09/13/93		4.26	90.40
		11/30/93	09:38	3.73	90.93
		02/11/94	10:20	3.44	91.22
		06/14/94	13:45	4.13	90.53
		09/19/94	15:55	4.79	89.87
		01/17/95	15:47	4.54	90.12
		04/11/95	15:40	4.33	90.33
		08/28/95	16:20	5.25	89.41

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
6	96.31	09/13/93		2.15	94.16
		11/29/93	04:25	2.03	94.28
		02/11/94	11:00	1.91	94.40
		06/14/94	15:00	2.89	93.42
		09/19/94	16:15	4.03	92.28
		01/20/95	12:45	4.65	91.66
		04/12/95	12:45	4.72	91.59
		08/24/95	16:50	4.59	91.72
7	96.79	09/14/93		5.15	91.64
		11/29/93	04:10	4.70	92.09
		02/11/94	11:35	4.36	92.43
		06/14/94	14:10	5.63	91.16
		09/19/94	16:25	7.21	89.58
		01/20/95	13:11	7.60	89.19
		04/12/95	09:30	8.09	88.70
		08/24/95	17:10	7.82	88.97
8	97.04	09/14/93		1.97	95.07
		11/29/93	03:00	1.54	95.50
		02/11/94	09:00	1.17	95.87
		06/14/94	11:30	3.09	93.95
		09/19/94	14:30	3.42	93.62
		01/17/95	13:17	3.00	94.04
		04/11/95	13:21	3.00	94.04
		08/24/95		DRY	
9	100.16	09/14/93		2.90	97.26
		11/29/93	03:15	2.83	97.33
		02/10/94	15:57	2.62	97.54
		06/14/94	11:15	3.85	96.31
		09/19/94	14:20	4.37	95.79
		01/17/95	12:53	4.20	95.96
		04/11/95	13:02	4.20	95.96
		08/24/95	10:35	4.47	95.69
10	101.55	09/14/93		3.23	98.32
		11/29/93	02:40	3.11	97.05
		02/10/94	15:55	2.31	99.24
		06/14/94	11:00	3.78	97.77
		09/19/94	13:45	4.51	97.04
		01/17/95	12:16	4.09	97.46
		04/11/95	11:32	4.05	97.50
		08/24/95	10:30	4.31	97.24

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
11	103.63	09/14/93		4.63	99.00
		11/29/93	02:30	4.41	99.22
		02/10/94	15:50	4.16	99.47
		06/14/94	10:30	4.87	98.76
		09/19/94	13:55	5.09	98.54
		01/17/95	10:30	4.83	98.80
		04/11/95	11:51	4.75	98.88
		08/24/95	10:15	5.16	98.47
12	111.11	09/14/93		15.39	95.72
		11/29/93	08:30	14.12	96.99
		02/14/94	14:30	11.99	99.12
		06/14/94	15:40	14.01	97.10
		09/20/94	11:45	15.25	95.86
		01/20/95	15:57	15.18	95.93
		04/19/95	09:15	13.41	97.70
		08/24/95	12:00	15.13	95.98
13	117.12	09/14/93		16.38	100.74
		11/29/93	09:15	16.41	100.71
		02/10/94	15:15	16.17	100.95
		06/14/94	10:00	16.46	100.66
		09/19/94	11:45	17.05	100.07
		01/20/95	10:37	17.30	99.82
		04/11/95	10:30	17.15	99.97
		08/24/95	15:10	17.47	99.65
14	111.94	09/14/93		12.83	99.11
		11/29/93	10:15	12.74	99.20
		02/14/94	16:00	11.22	100.72
		06/15/94	09:10	12.71	99.23
		09/20/94	11:30	13.32	98.62
		01/20/95	15:01	12.59	99.35
		04/19/95	15:01	12.23	99.71
		08/24/95	12:15	12.66	99.28
15	114.53	09/14/93		13.10	101.43
		11/29/93	02:20	13.05	101.48
		02/10/94	15:45	12.89	101.64
		06/14/94	10:45	12.81	101.72
		09/19/94	14:10	13.15	101.38
		01/17/95	11:50	13.17	101.36
		04/11/95	12:35	12.96	101.57
		08/24/95	10:00	13.35	101.18

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
16	107.64	09/14/93		LEVEL NOT TAKEN	
		11/29/93	02:00	8.26	99.38
		02/10/94	15:30	8.03	99.61
		06/14/94	10:15	8.51	99.13
		09/19/94	12:00	8.92	98.72
		01/20/95	11:03	8.78	98.86
		04/11/95	10:55	8.69	98.95
		08/24/95	15:35	9.03	98.61
17	100.84	09/14/93		4.40	96.44
		11/29/93	03:50	4.11	96.73
		02/11/94	14:25	3.90	96.94
		06/14/94	14:12	5.01	95.83
		09/20/94	11:15	6.11	94.73
		01/20/95	14:22	6.10	94.74
		04/19/95	09:45	5.85	94.99
		09/24/95	17:00	6.39	94.45
18	94.04	09/13/93		2.11	91.93
		11/30/93	10:25	2.20	91.84
		02/11/94	10:10	1.75	92.29
		06/14/94	15:10	2.60	91.44
		09/19/94	15:45	3.29	90.75
		01/17/95	15:25	3.64	90.40
		04/11/95	16:00	3.54	90.50
		08/24/95	16:10	3.85	90.19
19	93.64	09/13/93		1.92	91.72
		11/30/93	09:20	2.25	91.39
		02/11/94	10:00	2.09	91.55
		06/14/94	13:40	2.55	91.09
		09/19/94	15:35	3.14	90.50
		01/17/95	15:04	3.02	90.62
		04/11/95	15:20	2.89	90.75
		08/24/95	16:05	3.59	90.05
20	96.01 96.11	09/13/93		4.56	91.45
		11/30/93	08:25	4.42	91.69
		02/10/94	16:17	4.30	91.81
		06/14/94	15:30	4.64	91.47
		09/19/94	14:45	5.15	90.96
		01/17/95	13:45	4.99	91.12
		04/11/95	13:52	4.81	91.30
		08/24/95	11:35	5.52	90.59

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
21	94.34	09/13/93		2.19	92.15
		11/30/93	08:45	1.90	92.44
		02/10/94	16:25	1.92	92.42
		06/14/94	15:15	2.64	91.70
		09/19/94	14:55	3.38	90.96
		01/17/95	14:08	3.09	91.25
		04/11/95	14:31	3.02	91.32
		08/24/95	11:20	3.83	90.51
22	97.51	09/13/93		4.50	93.01
		11/30/93	08:35	4.09	93.42
		02/10/94	16:25	3.75	93.76
		06/14/94	15:20	4.96	92.55
		09/19/94	15:05	5.69	91.82
		01/17/95	14:26	5.31	91.51
		04/11/95	14:17	5.29	92.22
		08/24/95	11:10	6.24	91.27
23	115.77	09/20/94	11:50	13.82	101.95
		01/20/95	15:19	dry	
		04/19/95	11:30	14.53	101.24
		08/24/95		DRY	
24	116.17	09/20/94	11:52	17.30	98.87
		01/20/95	15:16	17.83	98.34
		04/12/95	11:50	17.45	98.72
		08/24/95	17:45	17.84	98.33
25	112.62	02/14/94	15:00	8.01	104.61
		06/14/94	16:04	9.58	103.04
		09/20/94	11:00	11.15	101.47
		01/20/95	15:15	13.78	98.84
		04/12/95	11:40	12.00	100.62
		08/24/95	18:10	11.94	100.68
26	112.36	09/20/94	11:52	14.15	98.21
		01/20/95	15:46	14.30	98.06
		04/19/95	11:45	14.00	98.36
		08/24/95	18:30	14.32	98.04

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
28	113.06	09/20/94	11:54	13.62	99.44
		01/20/95	15:22	14.71	98.35
		04/19/95	11:40	14.46	98.60
		08/24/95	18:45	14.91	98.15
29	111.91	09/20/94	11:56	14.48	97.43
		01/20/95	15:41	14.48	97.43
		04/19/95	11:50	13.70	98.21
		08/24/95	18:55	14.65	97.26

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TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENT
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM.
MW-1	01/20/95	1.71	2	2
	04/12/95	1.83	1	3
	08/24/95	1.47	2	5
MW-12	09/14/93	2.00	NOT BAILED	
	11/29/93	1.97	6.5	6.5
	02/14/94	0.47	1.8	8.3
	03/23/94	0.06	0	
	04/27/94	0.42	2.4	10.7
	05/17/94	0.83	6.4	17.1
	06/01/94	1.08	4.8	21.9
	06/15/94	1.87	6.4	28.3
	08/22/94	1.50	4	32.3
	09/20/94	3.17	12	44.3
	01/20/95	1.96	20	64.3
	04/12/95	1.81	4	68.3
	05/03/95	1.70	4	72.3
	06/19/95	1.90	3	75.3
	06/26/95	1.40	2	77.3
	08/24/95	1.69	4	81.3
MW-14	09/14/93	0.50	0	
	11/29/93	1.49	4.8	4.8
	02/14/94	0.95	2.8	7.6
	03/23/94	--	0	7.6
	04/27/94	--	0	7.6
	05/17/94	--	0	7.6
	06/01/94	--	0	7.6
	06/15/94	1.30	1.6	9.2
	08/22/94	--	0	9.2
	09/20/94	1.18	1.5	10.7
	01/20/95	0.27	0.2	10.9
	04/12/95	0.42	0.3	11.2
	08/24/95	0.20	0	11.2
MW-17	09/20/94	0.25	4	4
	01/20/95	0.27	4.5	8.5
	04/12/95	0.23	3	11.5
	08/24/95	0.39	5.7	17.2
MW-23	06/01/94	0.00	0	0
	06/15/94	1.17	1.6	1.6
	08/22/94	1.71	1.8	3.4
	09/20/94	0.00	0	3.4
	01/20/95	DRY	0	3.4
	04/12/95	0.03	0	3.4
	08/24/95	0.25	0	3.4

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENT
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM.
MW-26	02/14/94	0.00	0	
	03/23/94	0.50	1.6	1.6
	04/27/94	1.00	8	9.6
	05/17/94	1.00	8	17.6
	06/01/94	1.17	9.6	27.2
	06/15/94	0.74	3.2	30.4
	08/22/94	1.12	2	32.4
	09/20/94	0.08	0	
	01/20/95	T	0	
	04/12/95	0.06	0	
	08/24/95	0.02	0	32.4
MW-27	02/14/94	0.00	0	0
	03/23/94	1.33	5.6	5.6
	04/27/94	1.00	8	13.6
	05/17/94	1.33	8.8	22.4
	06/01/94	1.67	8	30.4
	06/15/94	1.43	1.6	32
	08/22/94	0.00	0	32
	09/20/94	0.00	0	32
	01/20/95	DRY	0	32
	08/24/95	DRY	0	32
MW-28	02/14/94	0.00	0	
	03/23/94	1.00	2.4	2.4
	04/27/94	0.83	4	6.4
	05/17/94	0.33	4.8	11.2
	06/01/94	0.42	3.2	14.4
	06/15/94	0.50	3.2	17.6
	08/22/94	0.83	4	21.6
	09/20/94	0.00	0	21.6
	01/20/95	0.00	0	21.6
	04/12/95	0.17	0	21.6
	08/24/95	0.23	1.8	23.4
MW-29	02/14/94	0.00	0	0
	03/23/94	0.08	0	0
	04/27/94	0.25	3.2	3.2
	05/17/94	0.25	3.2	6.4
	06/01/94	0.50	6.4	12.8
	06/15/94	2.36	4.8	17.6
	08/22/94	1.17	1.8	19.4
	09/20/94	1.10	1.8	21.2
	01/20/95	0.78	1.2	22.4
	04/12/95	1.09	0.5	22.9
	08/24/95	0.72	2.7	25.6

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENT
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM.
T17-1	06/15/94	1.62	8	8
	01/20/95	0.80	4	12
	04/12/95	1.20	4	16
	08/24/95	0.93	2	18
T17-4	06/15/94	1.13	*	
	01/20/95	1.57	*	
	04/12/95	1.22	*	
	08/24/95	Removed		
T17-5	06/15/94	0.84	3.2	3.2
	01/20/95	1.45	6	9.2
	04/12/95	dry	0	9.2
		Removed		
R-1	03/23/94	0.75	8	8
	04/27/94	1.17	8	16
	05/17/94	0.75	5.6	21.6
	06/01/94	0.83	4.8	26.4
	06/15/94	1.25	6.4	32.8
	08/22/94	0.83	8	40.8
	09/20/94	0.12	1.5	42.3
	01/20/95	T	0	42.3
	04/12/95	T	0	42.3
	08/24/95	DRY	0	42.3
R-3	03/23/94	1.00	12.8	12.8
	04/27/94	2.08	14.4	27.2
	05/17/94	1.00	6.4	33.6
	06/01/94	1.17	6.4	40
	06/15/94	0.42	8	48
	08/22/94	1.00	9	57
	09/20/94	0.33	1.5	58.5
	01/20/95	T	0	58.5
	04/12/95	T	0	58.5
	08/24/95	DRY	0	58.5
R-8	03/23/94	1.50	36.8	36.8
	04/27/94	0.33	3.2	40
	05/17/94	1.33	14.4	54.4
	06/01/94	1.50	19.2	73.6
	06/15/94	1.33	16	89.6
	08/22/94	2.75	20	109.6
	09/20/94	1.50	12	121.6
	01/20/95	T	0	121.6
	04/12/95	T	0	121.6
	08/24/95	DRY	0	121.6

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENT
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM.
R-9	03/23/94	2.17	20	20
	04/27/94	2.25	20	40
	05/17/94	2.42	20	60
	06/01/94	2.42	20	80
	06/15/94	2.42	20	100
	08/22/94	0.00	0	100
	09/20/94	0.25	2	102
	01/20/95	T	0	102
	04/12/95	T	0	102
	08/24/95	DRY	0	102
R-12	03/23/94	2.25	20	20
	04/27/94	2.33	20	40
	05/17/94	2.33	20	60
	06/01/94	2.67	20	80
	06/15/94	2.50	20	100
	08/22/94	2.67	20	120
	09/20/94	1.17	9	129
	01/20/95	T	0	129
	04/12/95	T	0	129
	08/24/95	DRY	0	129
R-13	03/23/94	2.04	20	20
	04/27/94	2.42	20	40
	05/17/94	2.42	20	60
	06/01/94	2.50	20	80
	06/15/94	2.67	20	100
	08/22/94	0.75	8	108
	09/20/94	0.12	1.5	109.5
	01/20/95	T	0	109.5
	04/12/95	T	0	109.5
	08/24/95	DRY	0	109.5
R-14	03/23/94	2.12	20	20
	04/27/94	2.33	20	40
	05/17/94	2.50	20	60
	06/01/94	2.67	20	80
	06/15/94	2.67	20	100
	08/22/94	0.25	3	103
	09/20/94	0.12	0	103
	01/20/95	T	0	103
	04/12/95	T	0	103
	08/24/95	DRY	0	103

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENT
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM.
R-24	01/20/95	0.80	360	360
	03/14/95	0.82	4	364
	03/23/95		1	365
	04/12/95	0.75	7	372
	05/03/95	0.60	2	374
	06/19/95	0.40	2	376
	06/26/95	0.40	1	377
	08/25/95	0.00	0	377
R-25	01/20/95	0.90	100	100
	03/14/95	1.18	16	116
	03/23/95		6	122
	04/12/95	1.00	18	140
	05/03/95	0.95	4.3	144.3
	06/19/95	0.9	8	152.3
	06/26/95	0.9	6	158.3
	08/25/95	0	0	158.3
STRIPPER TANK	01/20/95		800	800
	03/03/95		640	1440
	03/31/95		640	2080
	04/21/95		320	2400
	05/08/95		800	3200
	05/10/95		1200	4400
	05/24/95		600	5000
	05/31/95		600	5600
	06/09/95		400	6000
	06/16/95		400	6400
	08/25/95		0	6400
TOTAL THIS QUARTER				
TOTAL TO DATE				7,859.9

ND - NON-DETECT (no visible product detected in the bailer)

* - Couldn't get the bailer down the well.

** - Pumped with a down hole bladder pump.

810\QMRTABL2

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-1	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	NO FREE PRODUCT BUT A TRACE				
	02/11/94	7.1210	0.0630	0.2270	0.5970	
	06/22/94	0.0600	0.0240	0.5800	0.1206	1.6280
	09/20/94	9.8510	0.0105	0.2140	0.8960	0.3820
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
MW-2	09/14/93	1.0470	0.2450	0.4870	0.7940	
	11/29/93	2.1150	0.1360	0.3950	0.5830	
	02/11/94	3.4780	0.0630	0.5810	0.7860	
	06/22/94	1.0700	0.0239	0.0139	0.4732	0.1380
	09/20/94	3.0050	0.0380	0.3690	0.5096	0.0880
	01/20/95	1.5810	0.0159	0.3950	0.5317	0.0830
	04/12/95	3.0500	0.1700	0.6360	0.8731	0.2290
	08/24/95	2.0730	0.0550	0.3910	0.4471	0.3190
MW-3	09/14/93	ND	ND	ND	0.0040	
	11/30/93	ND	ND	0.0011	0.0007	
	02/11/94	ND	ND	ND	ND	
	06/22/94	0.0128	ND	ND	0.0011	0.0236
	09/19/94	0.0730	0.0009	0.0006	0.0023	0.0390
	01/20/95	0.0262	0.0010	0.0048	0.0042	0.1110
	04/12/95	0.1240	0.0004	0.0082	0.0044	0.2010
	08/24/95	0.0106	0.0024	ND	0.0017	0.2130
MW-4	09/13/93	0.3240	0.0210	0.0510	0.2870	
	11/30/93	0.1000	0.0053	0.0013	0.0035	
	02/11/94	1.1270	0.0100	0.0310	0.0990	
	06/22/94	0.0226	0.0040	0.0003	0.0024	0.0283
	09/19/94	0.0640	0.0055	0.0008	0.0068	0.0570
	01/17/95	0.3910	0.0082	0.0290	0.2040	0.0530
	04/11/95	0.4290	0.0052	0.0112	0.0104	0.0468
	08/24/95	0.0051	0.0049	0.0012	0.0065	0.0309
MW-5	09/13/93	0.0090	0.0210	0.0060	0.0370	
	11/30/93	0.0011	ND	ND	ND	
	02/11/94	0.0060	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0312
	09/19/94	0.0030	ND	0.0004	0.0011	0.0412
	01/17/95	0.0028	ND	ND	ND	0.0550
	04/11/95	0.0031	ND	ND	ND	0.0657
	08/24/95	ND	ND	0.0002	0.0010	0.0477

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-6	09/13/93	0.5070	0.0780	0.1350	0.3190	
	11/29/93	0.0082	0.0020	0.0022	0.0019	
	02/11/94	0.0230	0.0170	0.0150	0.0720	
	06/22/94	0.2340	0.0016	0.0337	0.0015	0.0338
	09/19/94	0.0560	0.0047	0.0028	0.0067	0.0418
	01/20/95	0.0009	0.0050	0.0014	0.0054	0.0195
	04/12/95	0.0270	0.0181	0.0026	0.0102	0.0211
	08/24/95	0.0029	0.0013	0.0002	0.0016	0.0266
MW-7	09/14/93	0.6470	0.1970	0.1680	0.6910	
	11/29/93	3.5410	0.9710	0.4190	1.9180	
	02/11/94	14.3990	2.0620	0.6300	4.1270	
	06/22/94	4.0830	0.6950	0.3010	1.7170	0.0670
	09/19/94	4.0860	0.2550	0.2110	0.5650	0.0890
	01/20/95	0.1760	0.1250	0.0500	0.4330	0.0680
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
MW-8	09/14/93	0.0180	0.0210	0.0340	0.0510	
	11/29/93	0.0034	ND	0.0004	0.0010	
	02/11/94	0.0010	0.0007	0.0003	0.0010	
	06/14/94	0.0018	0.0004	ND	ND	0.0470
	09/19/94	0.0045	0.0005	ND	0.0003	0.0650
	01/17/95	0.0022	0.0004	ND	0.0003	0.0750
	04/11/95	0.0013	ND	0.0003	0.0017	0.0876
	08/24/95	DRY				
MW-9	09/14/93	0.0070	0.0150	0.0240	0.0060	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	0.0156
	09/19/94	0.2210	0.0005	ND	ND	0.0510
	01/17/95	0.0483	ND	ND	ND	0.0469
	04/11/95	0.0558	ND	0.0003	0.0005	0.0400
	08/24/95	0.0710	ND	ND	0.0005	0.0710
MW-10	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	0.0003
	01/17/95	ND	ND	ND	ND	0.0003
	04/11/95	0.0015	ND	ND	0.0003	ND
	08/24/95	0.0042	0.0020	0.0051	0.0141	0.0011

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-11	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	0.0002	0.0005	ND
	08/24/95	0.0017	ND	0.0008	0.0024	ND
MW-12	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/17/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
MW-13	09/14/93	ND	ND	ND	ND	
	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	ND
	06/14/94	ND	ND	ND	0.0005	ND
	09/19/94	ND	ND	ND	0.0002	ND
	01/20/95	ND	ND	ND	0.0002	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	ND	0.0003
MW-14	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
MW-15	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	0.0005	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-16	09/14/93	ND	ND	0.0090	0.0060	
	11/29/93	ND	ND	0.0024	0.0006	
	02/11/94	ND	ND	0.0050	0.0010	
	06/14/94	ND	ND	0.0027	0.0003	ND
	09/19/94	ND	0.0003	0.0006	0.0009	ND
	01/20/95	ND	ND	0.0005	0.0005	0.0003
	04/11/95	ND	ND	0.0003	0.0008	ND
	08/24/95	ND	ND	0.0007	0.0016	ND
MW-17	09/14/93	19.6240	19.3470	2.6870	12.4810	
	11/29/93	21.2720	5.2850	1.0630	8.3570	
	02/11/94	61.5850	25.4200	1.6580	12.7870	
	06/22/94	21.6100	15.5510	0.8480	7.7600	0.0900
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
MW-18	09/13/93	0.2670	0.1350	0.0670	0.3450	
	11/30/93	0.1400	0.0088	0.0153	0.1330	
	02/11/94	0.3610	0.0090	0.0250	0.2450	
	06/22/94	0.0020	ND	ND	ND	0.0335
	09/19/94	0.4090	0.0042	0.0375	0.2406	0.0470
	01/17/95	0.0920	0.0032	0.0131	0.0957	0.0433
	04/11/95	0.0766	0.0014	0.0041	0.0122	0.0300
	08/24/95	0.1780	0.0030	0.0155	0.0098	0.0357
MW-19	09/13/93	0.0610	0.0240	0.1650	0.7190	
	11/30/93	0.0245	0.0118	0.2580	0.6582	
	02/11/94	0.0580	0.0200	0.5450	1.4580	
	06/22/94	0.0058	0.0069	0.0112	0.0491	0.0246
	09/19/94	0.0620	0.0040	0.1960	0.4992	0.0433
	01/17/95	0.0083	0.0037	0.1460	0.3364	0.0159
	04/11/95	0.0055	0.0016	0.1390	0.3020	0.0079
	08/24/95	0.0074	0.0027	0.0680	0.1251	0.0320
MW-20	09/13/93	ND	ND	ND	0.0340	
	11/30/93	0.0277	0.0165	0.1300	0.5551	
	02/11/94	0.0380	0.0220	0.0840	0.3500	
	06/22/94	0.0104	0.0111	0.0122	0.0207	0.1090
	09/19/94	0.0245	0.0176	0.0100	0.0327	0.1120
	01/17/95	0.0065	0.0173	0.0211	0.0600	0.1090
	04/11/95	0.0016	0.0058	0.0021	0.0120	0.1370
	08/24/95	0.0003	0.0067	0.0023	0.0106	0.1040

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-21	09/13/93	0.0090	ND	ND	ND	
	11/30/93	0.0171	0.0046	0.0050	0.0023	
	02/11/94	0.0820	0.0090	0.0260	0.0060	
	06/22/94	0.0173	0.0025	0.0019	0.0019	0.0451
	09/19/94	0.0014	0.0032	0.0009	0.0008	0.0418
	01/17/95	0.0510	0.0080	0.0410	0.0663	0.0392
	04/11/95	0.0034	0.0012	0.0005	0.0016	0.0626
	08/24/95	0.0050	0.0006	0.0004	0.0010	0.0700
MW-22	09/13/93	ND	ND	ND	ND	
	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0392
	09/19/94	ND	ND	ND	ND	0.0358
	01/17/95	ND	ND	ND	ND	0.0408
	04/11/95	ND	ND	ND	ND	0.0353
	08/24/95	ND	ND	ND	0.0004	0.0256
MW-23	02/11/94	198.5730	190.8910	7.2400	48.8370	
	06/22/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	DRY				
	04/12/95	DRY				
	08/24/95	DRY				
MW-25	11/29/93	2.3730	0.0112	0.1330	0.3454	
	02/11/94	7.3150	0.0700	0.1150	0.5880	
	06/22/94	NOT SAMPLED				
	09/20/94	5.0500	0.0377	0.0930	0.7360	0.1090
	01/20/95	NOT SAMPLED				
	04/12/95	0.2450	0.0015	0.0036	0.0233	0.0753
	08/24/95	1.6410	0.0153	0.1080	0.1610	0.1000
EFFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0021	0.0016	0.0013	0.0038	
	02/11/94	BLOWER SHUT DOWN				
	06/22/94	BLOWER SHUT DOWN				
	09/20/94	0.0093	0.0009	ND	0.0007	ND
	01/20/95	NOT SAMPLED				
	04/12/95	0.0975	0.3630	0.2780	2.6390	0.0075

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
INFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0015	0.0009	0.0017	0.0023	
	02/11/94	0.0010	ND	ND	0.0040	
	06/22/94	PUMP SHUT DOWN				
	09/20/94	9.6700	0.7540	0.1580	0.6330	0.0500
	01/20/95	NOT SAMPLED				
	04/12/95	2.0600	0.9870	0.2460	1.6890	0.0245
NMWQCC	12/24/87	0.0100	0.7500	0.7500	0.6200	0.1000

ND - NON-DETECT

810\QMRTABL3

APPENDIX

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	TRIP BLANK	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0831	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	0.2	0.2
BENZENE	ND	0.4
TOLUENE	ND	0.9
ETHYLBENZENE	ND	0.5
P,M-XYLENE	ND	0.4
O-XYLENE	ND	0.3

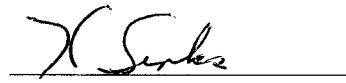
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	84	80 - 120%
	BROMOFLUOROBENZENE	91	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC- Trip Blank.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-2	DATE ANALYZED:	Sep 12, 1995
SAMPLE NUMBER:	0847	ANALYSIS:	BTEX/MTBE

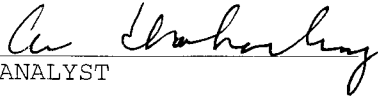
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	319	10.0
BENZENE	2073	15.0
TOLUENE	55	15.0
ETHYLBENZENE	391	10.0
P,M-XYLENE	438	10.0
O-XYLENE	9.1	15.0

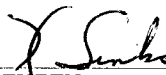
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	83	80 - 120%
	BROMOFLUOROBENZENE	90	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

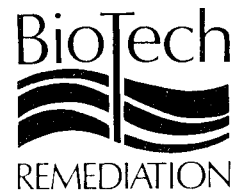
COMMENTS: Monitor Well MW-2, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-3	DATE ANALYZED:	Sep 12, 1995
SAMPLE NUMBER:	0846	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	213	0.2
BENZENE	10.6	0.3
TOLUENE	2.4	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	1.0	0.2
O-XYLENE	0.7	0.3

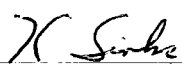
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	89	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-3, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-4	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0844	ANALYSIS:	BTEX/MTBE

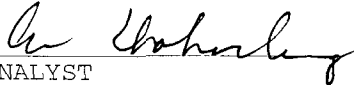
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	30.9	0.2
BENZENE	5.1	0.3
TOLUENE	4.9	0.3
ETHYLBENZENE	1.2	0.2
P,M-XYLENE	3.2	0.2
O-XYLENE	3.3	0.3

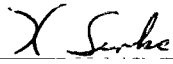
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	92	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-4, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-5	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0843	ANALYSIS:	BTEX/MTBE

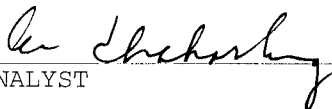
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	47.7	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	0.2	0.2
P, M-XYLENE	0.3	0.2
O-XYLENE	0.7	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	81	80 - 120%
	BROMOFLUOROBENZENE	103	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-5, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-6	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0845	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	26.6	0.2
BENZENE	2.9	0.3
TOLUENE	1.3	0.3
ETHYLBENZENE	0.2	0.2
P,M-XYLENE	1.0	0.2
O-XYLENE	0.6	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	97	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-6, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-9	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0835	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	71	0.2
BENZENE	71	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.5	0.2
O-XYLENE	ND	0.3

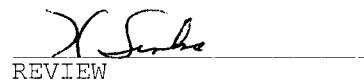
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	101	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-9, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-10	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0834	ANALYSIS:	BTEX/MTBE

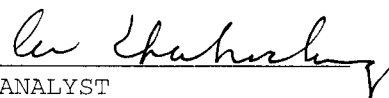
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	1.1	0.2
BENZENE	4.2	0.4
TOLUENE	2	0.9
ETHYLBENZENE	5.1	0.5
P, M-XYLENE	11.9	0.4
O-XYLENE	2.2	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	89	80 - 120%
	BROMOFLUOROBENZENE	104	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-10, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-11	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0833	ANALYSIS:	BTEX/MTBE

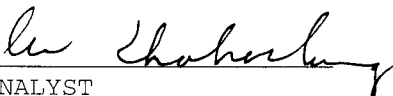
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	3.7	0.4
TOLUENE	ND	0.9
ETHYLBENZENE	0.8	0.5
P,M-XYLENE	2.4	0.4
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	79	80 - 120%
	BROMOFLUOROBENZENE	86	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-11, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-13	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0839	ANALYSIS:	BTEX/MTBE

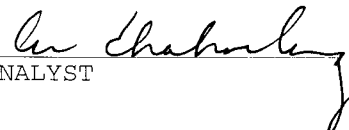
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	0.3	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.2
O-XYLENE	ND	0.3

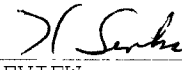
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	90	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-13, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-15	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0832	ANALYSIS:	BTEX/MTBE

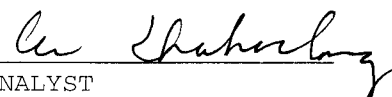
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.4
TOLUENE	ND	0.9
ETHYLBENZENE	ND	0.5
P,M-XYLENE	0.5	0.4
O-XYLENE	ND	0.3

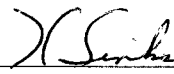
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	82	80 - 120%
	BROMOFLUOROBENZENE	89	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-15, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-16	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0840	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	0.7	0.2
P,M-XYLENE	0.8	0.2
O-XYLENE	0.8	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	84	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-16, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-18	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0842	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	35.7	0.2
BENZENE	178	0.3
TOLUENE	3.0	0.3
ETHYLBENZENE	15.5	0.2
P, M-XYLENE	4.4	0.2
O-XYLENE	5.4	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	87	80 - 120%
	BROMOFLUOROBENZENE	91	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-18, Thriftway site #810.


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Farmington, New Mexico 87401
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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-19	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0841	ANALYSIS:	BTEX/MTBE

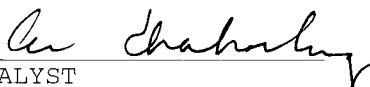
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	32.0	0.2
BENZENE	7.4	0.3
TOLUENE	2.7	0.3
ETHYLBENZENE	68	0.2
P,M-XYLENE	120	0.2
O-XYLENE	5.1	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	88	80 - 120%
	BROMOFLUOROBENZENE	94	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-19, Thriftway site #810.


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-20	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0838	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	104	0.2
BENZENE	0.3	0.3
TOLUENE	6.7	0.3
ETHYLBENZENE	2.3	0.2
P,M-XYLENE	4.0	0.2
O-XYLENE	6.6	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	84	80 - 120%
	BROMOFLUOROBENZENE	100	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-20, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-21	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0837	ANALYSIS:	BTEX/MTBE

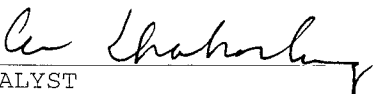
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	70	0.2
BENZENE	5.0	0.3
TOLUENE	0.6	0.3
ETHYLBENZENE	0.4	0.2
P, M-XYLENE	1.0	0.2
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	99	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-21, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-22	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0836	ANALYSIS:	BTEX/MTBE

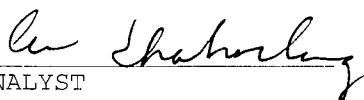
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	25.6	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.4	0.2
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	89	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-22, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-24	DATE ANALYZED:	Sep 12, 1995
SAMPLE NUMBER:	0848	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	80	25.0
BENZENE	647	10.0
TOLUENE	113	15.0
ETHYLBENZENE	208	15.0
P,M-XYLENE	954	10.0
O-XYLENE	317	10.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	87	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-24, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-25	DATE ANALYZED:	Sep 12, 1995
SAMPLE NUMBER:	0849	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	100	2.5
BENZENE	1641	1.0
TOLUENE	15.3	1.5
ETHYLBENZENE	108	1.5
P,M-XYLENE	153	1.0
O-XYLENE	8.0	1.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	103	80 - 120%
	BROMOFLUOROBENZENE	100	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-25, Thriftway site #810.


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QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-9	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0835	ANALYSIS:	BTEX/MTBE

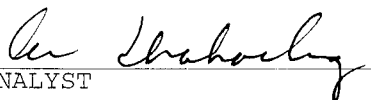
SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	71	84	0.2	92	-
BENZENE	71	84	0.3	91	39 - 150%
TOLUENE	ND	20.2	0.3	101	46 - 148%
ETHYLBENZENE	ND	19.4	0.2	97	32 - 160%
P,M-XYLENE	0.5	39.4	0.2	97	-
O-XYLENE	ND	19.3	0.3	97	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	08-24-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	08-25-95
SAMPLE ID:	MW-15	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	0832	ANALYSIS:	BTEX/MTBE

SPIKE CONCENTRATION (ug/L) = 20.0

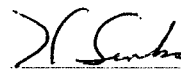
ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	ND	19.3	0.2	96	-
BENZENE	ND	18.0	0.4	88	39 - 150%
TOLUENE	ND	18	0.9	87	46 - 148%
ETHYLBENZENE	ND	17	0.5	86	32 - 160%
P,M-XYLENE	0.5	35	0.4	88	-
O-XYLENE	ND	17	0.3	87	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	09115AM.00	ANALYSIS:	BTEX/MTBE

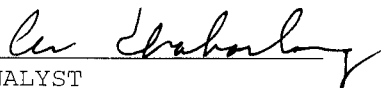
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.4
TOLUENE	ND	0.9
ETHYLBENZENE	ND	0.5
P,M-XYLENE	ND	0.4
O-XYLENE	ND	0.3

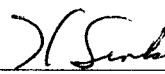
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	94	80 - 120%
	BROMOFLUOROBENZENE	92	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Sep 11, 1995
SAMPLE NUMBER:	09115PM.00	ANALYSIS:	BTEX/MTBE

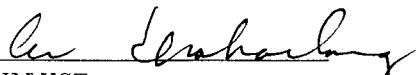
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.2
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	88	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Sep 12, 1995
SAMPLE NUMBER:	09125PM.00	ANALYSIS:	BTEX/MTBE

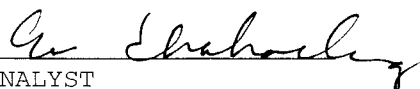
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.5
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.3
P, M-XYLENE	ND	0.2
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	93	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

111191

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS						Remarks
Sample No./ID	Date	Time	Tape No.	Lab No.	Matrix	No. Cont.	TEST	WBE		
The State of New Mexico # 810		Bhacofield, NM								
Sampler: (Signature) <i>[Signature]</i>										
TS-100	08/25/95	0745	0831	0831	Water	1	✓	✓		
TS-101	"	0800	0832	0832	"	2	✓	✓		
TS-102	"	0815	0833	0833	"	1	✓	✓		
TS-103	"	0830	0834	0834	"	1	✓	✓		
TS-104	"	0845	0835	0835	"	1	✓	✓		
TS-105	"	0900	0836	0836	"	1	✓	✓		
TS-106	"	0910	0837	0837	"	1	✓	✓		
TS-107	"	0925	0838	0838	"	1	✓	✓		
TS-108	"	0940	0839	0839	"	1	✓	✓		
TS-109	"	0955	0840	0840	"	1	✓	✓		
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature)		Date				Time
Relinquished by: (Signature) <i>[Signature]</i>		08/25/95	1000	U. Shachenberg		8/25/95				0800
Relinquished by: (Signature)				Received by: (Signature)						
Relinquished by: (Signature)				Received by: (Signature)						

11192

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS						Remarks
Tins. Stun Red. # 810		Shawnee 18 pm		No. Cont.	13024	13024	13024	13024	13024	
Sample No./ID	Date	Time	Lab No.	Matrix						
1010-17	2/24/95	1605	0841	Water	✓	✓	✓	✓	✓	
1010-18	"	1610	0842	"	✓	✓	✓	✓	✓	
1010-19	"	1620	0843	"	✓	✓	✓	✓	✓	
1010-20	"	1645	0844	"	✓	✓	✓	✓	✓	
1010-21	"	1650	0845	"	✓	✓	✓	✓	✓	
1010-22	"	1700	0846	"	✓	✓	✓	✓	✓	
1010-23	"	1715	0847	"	✓	✓	✓	✓	✓	
1010-24	"	1745	0848	"	✓	✓	✓	✓	✓	
1010-25	"	1810	0849	"	✓	✓	✓	✓	✓	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time
B. K. Korman		2/24/95		2000		Mr. Shabazz		8/25/95		0800
Relinquished by: (Signature)						Received by: (Signature)				
Relinquished by: (Signature)						Received by: (Signature)				

BioTech REMEDIATION INC.

QUARTERLY MONITORING REPORT THRIFTWAY REFINERY BLOOMFIELD, NEW MEXICO

RECEIVED

JUN 07 1995

Environmental Bureau
Oil Conservation Division

**PREPARED FOR
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER**

April 12, 1995



QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO 87413

710 East 20th Street, Suite 400
Farmington, New Mexico 87401
Field Office: (505) 632-3365
Fax: (505) 632-9850

PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER

APRIL 12, 1995

BY
BIOTECH REMEDIATION INC.
710 EAST 20TH ST., SUITE #400
FARMINGTON, NEW MEXICO 87401

PREPARED BY:

Jack D. Dewey

JACK DEWEY
HYDROLOGIST

810\QM041295.RPT

REVIEWED BY:

Ken Sinks

KEN SINKS, CHEM. E. P.E.
SENIOR SCIENTIST/ENGINEER

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- 2.0 QUARTERLY SUMMARY OF SITE ACTIVITIES
- 3.0 SUMMARY OF GROUND WATER ELEVATION DATA
- 4.0 SUMMARY OF PHASE-SEPARATED PRODUCT CONDITIONS
- 5.0 SUMMARY OF GROUND WATER CHEMISTRY DATA
- 6.0 DISCUSSION

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1.0 INTRODUCTION

The purpose of this report is to update the data base for the Thriftway Refinery, through April 12, 1995. BioTech Remediation, Inc., (BioTech), submits this monitoring and sampling update on behalf of Thriftway Company, pursuant to the requirements of the New Mexico Oil Conservation Division.

This report defines the relative ground water elevation, the approximate size and location of the free-product plumes and the current activity at the site. It also describes the extent of water contamination based on the NMWQCC specification of 0.01 mg/L Benzene in water.

This work is compiled in compliance with the terms of the Thriftway Refinery Ground Water Discharge Plan GW-55.

2.0 QUARTERLY SUMMARY OF SITE ACTIVITIES

Site monitoring was performed on April 11 and 12, 1995. During this quarterly site visit, the following activities were performed:

- Measure ground water elevation at each monitor well
- Collect ground water samples from the monitor wells
- Measure free-product thickness
- Bail free-product from wells containing free-product
- Remove free-product from the UST at the stripper

BioTech now adds muriatic acid (HCL) to the inflow for the air stripper by a continuous drip system to maintain a pH of 6.0 to 7.0. This has not eliminated the scale problem in the stripper and piping, but has lengthened the time between acid treatments and is less corrosive to the metal parts. It has also made the deposits in the stripper, pump and piping, a soft material rather than rock-like.

Free product was pumped from several wells in the area of MW-12 with a 12 volt DC electric pump. Two (2) new recovery wells R-24 and R-25 were installed in the plume near MW-12 on December 28, 1994. All recovery and monitor wells that contained free product were bailed this quarter (see Table 2).

3.0 SUMMARY OF GROUND WATER ELEVATION DATA

The relative ground water elevation data, for the refinery for the last eight (8) sampling events is shown in Table 1. The most recent relative ground water elevation data, collected April 11 and 12, 1995 is presented on the Ground Water Elevation Contour Map (see Figure 1). The field data was gathered using a KECK water/product interface probe (see Table 1 and 2).

From the Ground Water Contour Map (Figure 1), it appears that the ground water gradient is affected by the following natural and man-made features: 1) Kutz Wash, 2) the small dry arroyo east of the property, 3) the fire pond, 4) the ground water recovery leach line (GWRL) and 5) the injection gallery. The leak in the injection gallery reported last quarter has been repaired and is again sharing the stripped water with the fire pond. There is now a two (2) or more foot depression along the GWRL from MW-7 to the UST and an obvious decrease in the ground water gradient downstream of the recovery system in the north-west corner of the property.

4.0 SUMMARY OF PHASE-SEPARATED PRODUCT CONDITIONS

Recoverable free-product was found in monitor wells MW-1, MW-12, MW-14, MW-17, MW-28, MW-29 and T17-1, as well as, in recovery wells R-24 and R-25 and the stripper UST. Most of the recovery wells no longer contain recoverable free product. The relative level of free-product, in the monitor wells, was measured with a KECK water/product probe. BioTech recovered 1280 liters of product from the UST located near the stripper building and 51 liters of product from recovery wells R-24, R25 and monitor well MW-12. The total product recovered this quarter is 1339.8 liters. The total product recovered at the Refinery to date is 3,485.4 liters. The thickness of free-product and product recovered is recorded in feet and liters respectively. These values are presented in Table 2.

The product thickness in some of the recovery wells is not relevant to aquifer product thickness and are not recorded. They are screened only at the product level with five feet (5') or more of pipe below the screen to accumulate product. This was done to increase product recovery.

The product and water recovered during bailing was properly disposed of in a collection tank provided on the site. The collection tank contents are handled as follows: 1) free-product is

pumped off and stored for later processing, 2) the water is air stripped to remove the dissolved hydrocarbon and 3) the remaining water is evaporated in the refinery waste water evaporation ponds.

There are currently four (4) separate phase-separated product plumes at the refinery. They are each fairly well defined by test borings, monitor wells and recovery wells. They are located 1) along the east side of the fire pond, 2) under the driveway north of the south fence and east of the BioTech office, 3) west from tank 23 and monitor well MW-23 and 4) north from monitor well MW-17 to the leach line near the north fence (See Figure 3).

5.0 SUMMARY OF GROUND WATER CHEMISTRY DATA

The last eight (8) data collection events for ground water hydrocarbon contamination at the refinery are summarized in Table 3. Ground water samples for analysis were collected April 11 and 12, 1995, from most of the monitor wells not containing free-product. Ground water from monitor wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, MW-15, MW-16, MW-18, MW-19, MW-20, MW-21, MW-22 and MW-25 were analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX) and Methyl-Tertiary-Butyl-Ether (MTBE). The extent of the dissolved phase ground water plume at this site (based upon the regulated Benzene standard of 0.01 mg/l), is shown in Figure 2.

The samples were gathered using disposable bailers. New cord was used on each bailer to further ensure no cross-contamination of wells occurred. At least three (3) well volumes were removed, whenever possible. The samples were placed in 40 ml vials, prepared in the field with two (2) or three (3) drops of 5% by weight HgCl_2 solution. The samples were all marked with their respective location, monitor well number, desired analyses, date, time of sampling, preservative and by whom sampled. The samples were then transported, on ice, to the Envirotech Labs. A Chain of

Custody record accompanied the samples and is included with the laboratory analysis reports in the Appendix. Quality Control Sample Analysis Reports are also included and are in the Appendix.

The dissolved phase plume size has decreased in the last quarter along the north fence. BioTech feels this is due to natural attenuation and the interception of contamination by the leach line to the stripper.

The product in monitor well MW-7 is due to the close proximity of the leach line and fluctuations in water level in the UST. When the water level in the UST is low (six feet (6') or more below ground level) product collects on the water in the UST. If the water level in the UST is high (less than six feet (6') below ground level) product, that flows into the leach line up gradient, will collect in the soil in the draw down area along the leach line where MW-7 is located.

6.0 DISCUSSION

The magnitude of the dissolved phase plume has decreased over the period of the last quarter. Monitor well MW-21 decreased to below the NMWQCC specification of 0.010 mg/L Benzene in water.

From the Ground Water Contour Map (Figure 1), it appears that the ground water gradient is affected by the following natural and man-made features: 1) Kutz Wash, 2) the small dry arroyo east of the property, 3) the fire pond, 4) the ground water recovery leach line and 5) the injection gallery. The injection gallery line from the stripper has been repaired so stripped water is again being shared between the injection gallery and the fire pond.

All wells containing free product were bailed at least once this quarter. Wells MW-12, R-24 and R-25 were pumped on three (3) occasions with a 12 volt DC electric pump. This pump removes both water and product. The product was pumped at approximately 12 liters a minute taking as little water as possible. Recovery well R-24 produced less than two (2) to four (4) liters of product each time while R-25 produced 16 to 18 liters each time. Recovery well R-24 produced 360 liters and R-25 produced 100 liters the previous quarter with the skimmer pump. A total of 51 liters of product was pumped from these three (3) wells in the three (3) pumping events.

This quarter approximately 1,339.8 liters of free-product has been recovered from the recovery wells and monitor wells in the vicinity of monitor wells MW-12, MW-14, MW-17 and from the stripper UST. BioTech has recovered 1,280 liters of product from the stripper UST this quarter. The total recovered product, as of the date of this report, was 3,485.4 liters. BioTech hand augered some test holes along the up gradient side of the leach line to determine the source of the product in the stripper UST. It is evident from those test holes that the product reaching the stripper is from approximately a 200 foot wide area, along the north fence, near monitor well MW-17, as shown in Figure 3.

BioTech is keeping a record of the product being recovered from the wells and will continue to report on the recovery progress (see Table 2). The recovery wells near monitor well MW-14 have removed most of the product in the area covered. Since the last QMR those wells have produced more water than product, less than a liter of product total from that area, where a year ago several of the recovery wells were producing as much as five (5) gallons every two (2) weeks.

The various product plume sizes and thicknesses for this site will continue to be reported.

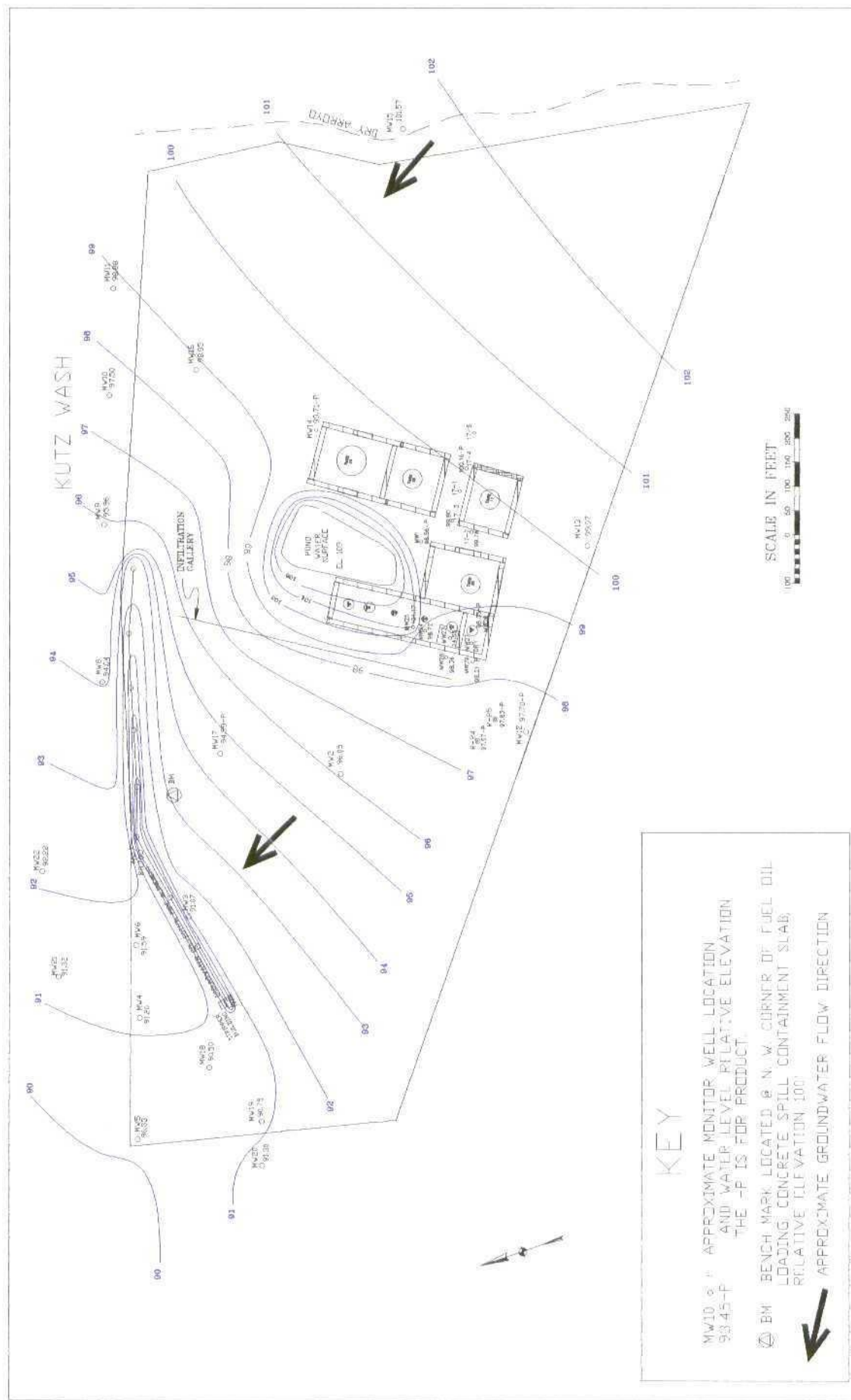
Note that the down stream end of the contamination plume, is

still east of the west property line. There are no wells at this time, west of the property, that exceed 0.010 mg/L Benzene regulatory limits. There is only one (1) well north of the property, MW-9 (0.0558 mg/L), that exceeds the 0.010 mg/L Benzene regulatory limit. The artesian well that was leaking at the surface for many years was plugged in the Summer of 1994, in the Fall, the Benzene concentration in monitor well MW-9 jumped to over 2.0 mg/L. Since that time this well concentration has been dropping. BioTech will continue to monitor this well.

The stripper at the site continues to operate in the 95+ percent efficiency range. After this sampling event, the recycle ratio to the stripper was increased in an attempt to raise the efficiency.

BioTech, as directed by Thriftway Company, will continue quarterly sampling and monitoring of the site, as well as routine maintenance of the recovery, treatment and injection gallery. This report of the operation and maintenance of the site remediation systems at the Thriftway Refinery is provided to comply with the Oil Conservation Division requirements and the Site Ground Water Discharge Plan GW-55.

FIGURES



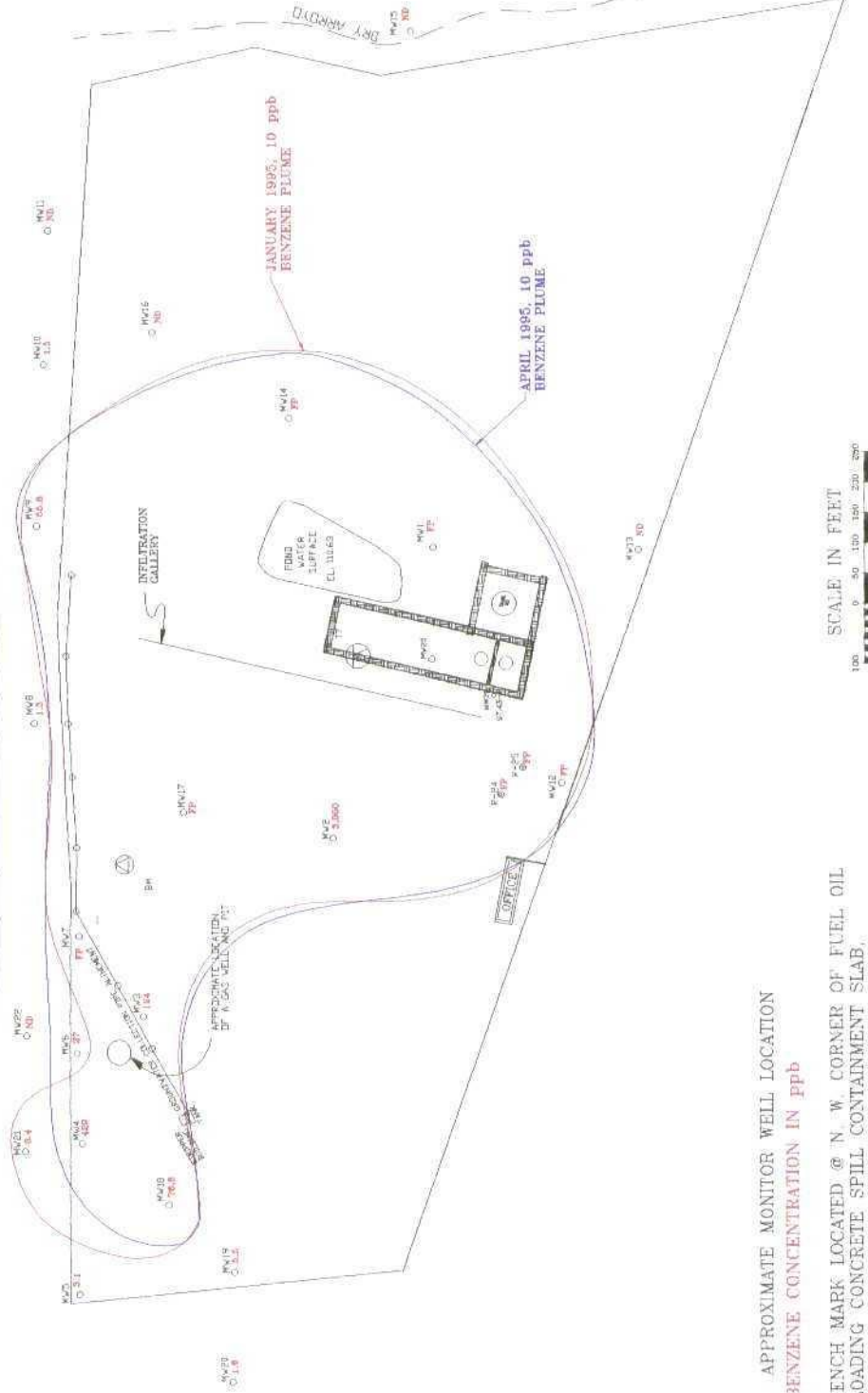
THRIFTWAY REFINERY
 626 COUNTY ROAD 5500
 BLOOMFIELD, NEW MEXICO

ENGINEER: J. DEWEY
 DRAFTED BY: J. DEWEY
**FIG. 1: GROUND WATER
 CONTOUR MAP**
 APRIL 12, 1995



710 EAST 20TH STREET, SUITE 400
 FARMINGTON, NEW MEXICO 87401
 OFFICE: (505) 632-3365
 FAX: (505) 632-0030

KUTZ WASH



MW10 = APPROXIMATE MONITOR WELL LOCATION
18 BENZENE CONCENTRATION IN ppb

BM: BENCH MARK LOCATED @ N. W. CORNER OF FUEL OIL
LOADING CONCRETE SPILL CONTAINMENT SLAB.
RELATIVE ELEVATION 100'

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

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ENGINEER: J. DEWEY
DRAFTED BY: J. DEWEY
FIGURE 2 10 ppb
BENZENE PLUME
APRIL 12, 1995



710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
OFFICE: (505) 632-3365
FAX: (505) 632-0030



810\ PP041295.SKD

APRIL 12, 1995



BioTech
REMEDICATION

TABLES

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVE ELEVATION (feet)
16	107.64	04/28/93	11:05	7.90	99.74
		09/14/93	LEVEL NOT TAKEN		
		11/29/93	02:00	8.26	99.38
		02/10/94	15:30	8.03	99.61
		06/14/94	10:15	8.51	99.13
		09/19/94	12:00	8.92	98.72
		01/20/95	11:03	8.78	98.86
		04/11/95	10:55	8.69	98.95
17	100.84	04/28/93	10:35	3.35	97.49
		09/14/93		4.40	96.44
		11/29/93	03:50	4.11	96.73
		02/11/94	14:25	3.90	96.94
		06/14/94	14:12	5.01	95.83
		09/20/94	11:15	6.11	94.73
		01/20/95	14:22	6.10	94.74
		04/19/95	09:45	5.85	94.99
18	94.04	04/28/93	9:35	2.14	91.90
		09/13/93		2.11	91.93
		11/30/93	10:25	2.20	91.84
		02/11/94	10:10	1.75	92.29
		06/14/94	15:10	2.60	91.44
		09/19/94	15:45	3.29	90.75
		01/17/95	15:25	3.64	90.40
		04/11/95	16:00	3.54	90.50
19	93.64	04/28/93	9:25	2.05	91.59
		09/13/93		1.92	91.72
		11/30/93	09:20	2.25	91.39
		02/11/94	10:00	2.09	91.55
		06/14/94	13:40	2.55	91.09
		09/19/94	15:35	3.14	90.50
		01/17/95	15:04	3.02	90.62
		04/11/95	15:20	2.89	90.75
20	96.01	04/28/93	8:30	4.18	91.83
		09/13/93		4.56	91.45
	96.11	11/30/93	08:25	4.42	91.69
		02/10/94	16:17	4.30	91.81
		06/14/94	15:30	4.64	91.47
		09/19/94	14:45	5.15	90.96
		01/17/95	13:45	4.99	91.12
		04/11/95	13:52	4.81	91.30

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
21	94.34	04/28/93	8:40	2.27	92.07
		09/13/93		2.19	92.15
		11/30/93	08:45	1.90	92.44
		02/10/94	16:25	1.92	92.42
		06/14/94	15:15	2.64	91.70
		09/19/94	14:55	3.38	90.96
		01/17/95	14:08	3.09	91.25
		04/11/95	14:31	3.02	91.32
22	97.51	04/28/93	8:50	4.44	93.07
		09/13/93		4.50	93.01
		11/30/93	08:35	4.09	93.42
		02/10/94	16:25	3.75	93.76
		06/14/94	15:20	4.96	92.55
		09/19/94	15:05	5.69	91.82
		01/17/95	14:26	5.31	92.20
		04/11/95	14:17	5.29	92.22
23	115.77	06/14/94	16:06	14.27	101.50
		09/20/94	11:50	13.82	101.95
		01/20/95	15:19	dry	
		04/19/95	11:30	14.53	101.24
24	116.17	06/14/94	16:08	13.97	102.20
		09/20/94	11:52	17.30	98.87
		01/20/95	15:16	17.83	98.34
		04/12/95	11:50	17.45	98.72
25	112.62	11/29/93	10:45	9.56	103.06
		02/14/94	15:00	8.01	104.61
		06/14/94	16:04	9.58	103.04
		09/20/94	11:00	11.15	101.47
		01/20/95	15:15	13.78	98.84
		04/12/95	11:40	12.00	104.17
26	112.36	06/14/94	16:10	13.77	98.59
		09/20/94	11:52	14.15	98.21
		01/20/95	15:46	14.30	98.06
		04/19/95	11:45	14.00	98.36

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVE ELEVATION (feet)
28	113.06	06/14/94	16:12	13.85	99.21
		09/20/94	11:54	13.62	99.44
		01/20/95	15:22	14.71	98.35
		04/19/95	11:40	14.46	98.60
29	111.91	06/14/94	16:14	14.66	97.25
		09/20/94	11:56	14.48	97.43
		01/20/95	15:41	14.48	97.43
		04/19/95	11:50	13.70	98.21

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TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
MW-1	01/20/95	1.71	2	2
	04/12/95	1.83	1	3
MW-12	09/14/93	2.00	NOT BAILED	
	11/29/93	1.97	6.5	6.5
	02/14/94	0.47	1.8	8.3
	03/23/94	0.06	0	
	04/27/94	0.42	2.4	10.7
	05/17/94	0.83	6.4	17.1
	06/01/94	1.08	4.8	21.9
	06/15/94	1.87	6.4	28.3
	08/22/94	1.50	4	32.3
	09/20/94	3.17	12	44.3
	01/20/95	1.96	20**	64.3
	04/12/95	1.81	4	68.3
MW-14	09/14/93	0.50	0	
	11/29/93	1.49	4.8	4.8
	02/14/94	0.95	2.8	7.6
	03/23/94	--	0	7.6
	04/27/94	--	0	7.6
	05/17/94	--	0	7.6
	06/01/94	--	0	7.6
	06/15/94	1.30	1.6	9.2
	08/22/94	--	0	9.2
	09/20/94	1.18	1.5	10.7
	01/20/95	0.27	0.2	10.9
	04/12/95	0.42	0.3	11.2
MW-17	09/20/94	0.25	4	4
	01/20/95	0.27	4.5	8.5
	04/12/95	0.23	3	11.5
MW-23	06/01/94	0.00	0	0
	06/15/94	1.17	1.6	1.6
	08/22/94	1.71	1.8	3.4
	09/20/94	0.00	0	3.4
	01/20/95	DRY	0	3.4
	04/12/95	0.03	0	3.4

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
MW-26	02/14/94	0.00	0	
	03/23/94	0.50	1.6	1.6
	04/27/94	1.00	8	9.6
	05/17/94	1.00	8	17.6
	06/01/94	1.17	9.6	27.2
	06/15/94	0.74	3.2	30.4
	08/22/94	1.12	2	32.4
	09/20/94	0.08	0	
	01/20/95	T	0	
	04/12/95	0.06	0	
MW-27	02/14/94	0.00	0	
	03/23/94	1.33	5.6	5.6
	04/27/94	1.00	8	13.6
	05/17/94	1.33	8.8	22.4
	06/01/94	1.67	8	30.4
	06/15/94	1.43	1.6	32
	08/22/94	0.00	0	32
	09/20/94	0.00	0	32
	01/20/95	DRY	0	32
MW-28	02/14/94	0.00	0	
	03/23/94	1.00	2.4	2.4
	04/27/94	0.83	4	6.4
	05/17/94	0.33	4.8	11.2
	06/01/94	0.42	3.2	14.4
	06/15/94	0.50	3.2	17.6
	08/22/94	0.83	4	21.6
	09/20/94	0.00	0	21.6
	01/20/95	0.00	0	21.6
	04/12/95	0.17	0	21.6
MW-29	02/14/94	0.00	0	0
	03/23/94	0.08	0	0
	04/27/94	0.25	3.2	3.2
	05/17/94	0.25	3.2	6.4
	06/01/94	0.50	6.4	12.8
	06/15/94	2.36	4.8	17.6
	08/22/94	1.17	1.8	19.4
	09/20/94	1.10	1.8	22.2
	01/20/95	0.78	1.2	23.4
	04/12/95	1.09	0.5	23.9

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
T17-1	06/15/94	1.62	8	8
	01/20/95	0.80	4	12
	04/12/95	1.20	4	16
T17-4	06/15/94	1.13	*	
	01/20/95	1.57	*	
	04/12/95	1.22	*	
T17-5	06/15/94	0.84	3.2	3.2
	01/20/95	1.45	6	9.2
	04/12/95	dry	0	9.2
R-1	03/23/94	0.75	8	8
	04/27/94	1.17	8	16
	05/17/94	0.75	5.6	21.6
	06/01/94	0.83	4.8	26.4
	06/15/94	1.25	6.4	32.8
	08/22/94	0.83	8	40.8
	09/20/94	0.12	1.5	42.3
	01/20/95	T	0	42.3
	04/12/95	T	0	42.3
R-3	03/23/94	1.00	12.8	12.8
	04/27/94	2.08	14.4	27.2
	05/17/94	1.00	6.4	33.6
	06/01/94	1.17	6.4	40
	06/15/94	0.42	8	48
	08/22/94	1.00	9	57
	09/20/94	0.33	1.5	58.5
	01/20/95	T	0	58.5
	04/12/95	T	0	58.5
R-8	03/23/94	1.50	36.8	36.8
	04/27/94	0.33	3.2	40
	05/17/94	1.33	14.4	54.4
	06/01/94	1.50	19.2	73.6
	06/15/94	1.33	16	89.6
	08/22/94	2.75	20	109.6
	09/20/94	1.50	12	121.6
	01/20/95	T	0	121.6
	04/12/95	T	0	121.6

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
R-9	03/23/94	2.17	20	20
	04/27/94	2.25	20	40
	05/17/94	2.42	20	60
	06/01/94	2.42	20	80
	06/15/94	2.42	20	100
	08/22/94	0.00	0	100
	09/20/94	0.25	2	102
	01/20/95	T	0	102
	04/12/95	T	0	102
R-12	03/23/94	2.25	20	20
	04/27/94	2.33	20	40
	05/17/94	2.33	20	60
	06/01/94	2.67	20	80
	06/15/94	2.50	20	100
	08/22/94	2.67	20	120
	09/20/94	1.17	9	129
	01/20/95	T	0	129
	04/12/95	T	0	129
R-13	03/23/94	2.04	20	20
	04/27/94	2.42	20	40
	05/17/94	2.42	20	60
	06/01/94	2.50	20	80
	06/15/94	2.67	20	100
	08/22/94	0.75	8	108
	09/20/94	0.12	1.5	109.5
	01/20/95	T	0	109.5
	04/12/95	T	0	109.5
R-14	03/23/94	2.12	20	20
	04/27/94	2.33	20	40
	05/17/94	2.50	20	60
	06/01/94	2.67	20	80
	06/15/94	2.67	20	100
	08/22/94	0.25	3	103
	09/20/94	0.12	0	103
	01/20/95	T	0	103
	04/12/95	T	0	103

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
R-24	01/20/95	0.80	360**	360
	03/14/95	0.82	4	364
	03/23/95		1	365
	04/12/95	0.75	7	367
R-25	01/20/95	0.90	100**	100
	03/14/95	1.18	16	116
	03/23/95		6	122
	04/12/95	1.00	18	140
STRIPPER TANK	01/20/95		800	800
	03/03/95		640	1440
	03/31/95		640	2080
	04/21/95		320	2400
TOTAL THIS QUARTER				
TOTAL TO DATE				3,805.4

ND - NON-DETECT (no visible product detected in the bailer)

* - Couldn't get the bailer down the well.

** - Pumped with a down hole bladder pump.

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TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-1	04/28/93	FREE PRODUCT FOUND IN WELL				
	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	NO FREE PRODUCT BUT A TRACE				
	02/11/94	7.1210	0.0630	0.2270	0.5970	
	06/22/94	0.0600	0.0240	0.5800	0.1206	1.6280
	09/20/94	9.8510	0.0105	0.2140	0.8960	0.3820
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/12/95	FREE PRODUCT FOUND IN WELL				
MW-2	04/28/93	0.9740	0.1890	0.2730	0.8430	
	09/14/93	1.0470	0.2450	0.4870	0.7940	
	11/29/93	2.1150	0.1360	0.3950	0.5830	
	02/11/94	3.4780	0.0630	0.5810	0.7860	
	06/22/94	1.0700	0.0239	0.0139	0.4732	0.1380
	09/20/94	3.0050	0.0380	0.3690	0.5096	0.0880
	01/20/95	1.5810	0.0159	0.3950	0.5317	0.0830
	04/12/95	3.0500	0.1700	0.6360	0.8731	0.2290
MW-3	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	0.0040	
	11/30/93	ND	ND	0.0011	0.0007	
	02/11/94	ND	ND	ND	ND	
	06/22/94	0.0128	ND	ND	0.0011	0.0236
	09/19/94	0.0730	0.0009	0.0006	0.0023	0.0390
	01/20/95	0.0262	0.0010	0.0048	0.0042	0.1110
	04/12/95	0.1240	0.0004	0.0082	0.0044	0.2010
MW-4	04/28/93	0.5880	0.0040	0.0390	0.3290	
	09/13/93	0.3240	0.0210	0.0510	0.2870	
	11/30/93	0.1000	0.0053	0.0013	0.0035	
	02/11/94	1.1270	0.0100	0.0310	0.0990	
	06/22/94	0.0226	0.0040	0.0003	0.0024	0.0283
	09/19/94	0.0640	0.0055	0.0008	0.0068	0.0570
	01/17/95	0.3910	0.0082	0.0290	0.2040	0.0530
	04/11/95	0.4290	0.0052	0.0112	0.0104	0.0468
MW-5	04/28/93	0.0140	0.0330	0.0040	0.0260	
	09/13/93	0.0090	0.0210	0.0060	0.0370	
	11/30/93	0.0011	ND	ND	ND	
	02/11/94	0.0060	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0312
	09/19/94	0.0030	ND	0.0004	0.0011	0.0412
	01/17/95	0.0028	ND	ND	ND	0.0550
	04/11/95	0.0031	ND	ND	ND	0.0657

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-6	04/28/93	0.4270	0.0360	0.0940	0.2300	
	09/13/93	0.5070	0.0780	0.1350	0.3190	
	11/29/93	0.0082	0.0020	0.0022	0.0019	
	02/11/94	0.0230	0.0170	0.0150	0.0720	
	06/22/94	0.2340	0.0016	0.0337	0.0015	0.0338
	09/19/94	0.0560	0.0047	0.0028	0.0067	0.0418
	01/20/95	0.0009	0.0050	0.0014	0.0054	0.0195
	04/12/95	0.0270	0.0181	0.0026	0.0102	0.0211
MW-7	04/28/93	WELL NOT FOUND				
	09/14/93	0.6470	0.1970	0.1680	0.6910	
	11/29/93	3.5410	0.9710	0.4190	1.9180	
	02/11/94	14.3990	2.0620	0.6300	4.1270	
	06/22/94	4.0830	0.6950	0.3010	1.7170	0.0670
	09/19/94	4.0860	0.2550	0.2110	0.5650	0.0890
	01/20/95	0.1760	0.1250	0.0500	0.4330	0.0680
	04/12/95	FREE PRODUCT FOUND IN WELL				
MW-8	04/28/93	ND	ND	ND	ND	
	09/14/93	0.0180	0.0210	0.0340	0.0510	
	11/29/93	0.0034	ND	0.0004	0.0010	
	02/11/94	0.0010	0.0007	0.0003	0.0010	
	06/14/94	0.0018	0.0004	ND	ND	0.0470
	09/19/94	0.0045	0.0005	ND	0.0003	0.0650
	01/17/95	0.0022	0.0004	ND	0.0003	0.0750
	04/11/95	0.0013	ND	0.0003	0.0017	0.0876
MW-9	04/28/93	ND	ND	ND	ND	
	09/14/93	0.0070	0.0150	0.0240	0.0060	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	0.0156
	09/19/94	0.2210	0.0005	ND	ND	0.0510
	01/17/95	0.0483	ND	ND	ND	0.0469
	04/11/95	0.0558	ND	0.0003	0.0005	0.0400
MW-10	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	0.0003
	01/17/95	ND	ND	ND	ND	0.0003
	04/11/95	0.0015	ND	ND	0.0003	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-11	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	0.0002	0.0005	ND
MW-12	04/28/93	0.4820	0.0890	0.1800	0.5170	
	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/17/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
MW-13	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	ND
	06/14/94	ND	ND	ND	0.0005	ND
	09/19/94	ND	ND	ND	0.0002	ND
	01/20/95	ND	ND	ND	0.0002	ND
	04/11/95	ND	ND	ND	ND	ND
MW-14	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
MW-15	04/28/93	ND	0.0280	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	ND	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-16	04/28/93	ND	ND	0.0030	0.0050	
	09/14/93	ND	ND	0.0090	0.0060	
	11/29/93	ND	ND	0.0024	0.0006	
	02/11/94	ND	ND	0.0050	0.0010	
	06/14/94	ND	ND	0.0027	0.0003	ND
	09/19/94	ND	0.0003	0.0006	0.0009	ND
	01/20/95	ND	ND	0.0005	0.0005	0.0003
	04/11/95	ND	ND	0.0003	0.0008	ND
MW-17	04/28/93	23.4240	22.1730	1.9670	13.1610	
	09/14/93	19.6240	19.3470	2.6870	12.4810	
	11/29/93	21.2720	5.2850	1.0630	8.3570	
	02/11/94	61.5850	25.4200	1.6580	12.7870	
	06/22/94	21.6100	15.5510	0.8480	7.7600	0.0900
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
MW-18	04/28/93	0.2230	0.0190	0.0130	0.5030	
	09/13/93	0.2670	0.1350	0.0670	0.3450	
	11/30/93	0.1400	0.0088	0.0153	0.1330	
	02/11/94	0.3610	0.0090	0.0250	0.2450	
	06/22/94	0.0020	ND	ND	ND	0.0335
	09/19/94	0.4090	0.0042	0.0375	0.2406	0.0470
	01/17/95	0.0920	0.0032	0.0131	0.0957	0.0433
	04/11/95	0.0766	0.0014	0.0041	0.0122	0.0300
MW-19	04/28/93	0.0450	0.0050	0.1180	0.6230	
	09/13/93	0.0610	0.0240	0.1650	0.7190	
	11/30/93	0.0245	0.0118	0.2580	0.6582	
	02/11/94	0.0580	0.0200	0.5450	1.4580	
	06/22/94	0.0058	0.0069	0.0112	0.0491	0.0246
	09/19/94	0.0620	0.0040	0.1960	0.4992	0.0433
	01/17/95	0.0083	0.0037	0.1460	0.3364	0.0159
	04/11/95	0.0055	0.0016	0.1390	0.3020	0.0079
MW-20	04/28/93	0.0030	0.0030	0.0320	0.3250	
	09/13/93	ND	ND	ND	0.0340	
	11/30/93	0.0277	0.0165	0.1300	0.5551	
	02/11/94	0.0380	0.0220	0.0840	0.3500	
	06/22/94	0.0104	0.0111	0.0122	0.0207	0.1090
	09/19/94	0.0245	0.0176	0.0100	0.0327	0.1120
	01/17/95	0.0065	0.0173	0.0211	0.0600	0.1090
	04/11/95	0.0016	0.0058	0.0021	0.0120	0.1370

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-21	04/28/93	0.0330	ND	ND	ND	
	09/13/93	0.0090	ND	ND	ND	
	11/30/93	0.0171	0.0046	0.0050	0.0023	
	02/11/94	0.0820	0.0090	0.0260	0.0060	
	06/22/94	0.0173	0.0025	0.0019	0.0019	0.0451
	09/19/94	0.0014	0.0032	0.0009	0.0008	0.0418
	01/17/95	0.0510	0.0080	0.0410	0.0663	0.0392
	04/11/95	0.0034	0.0012	0.0005	0.0016	0.0626
MW-22	04/28/93	ND	ND	ND	ND	
	09/13/93	ND	ND	ND	ND	
	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0392
	09/19/94	ND	ND	ND	ND	0.0358
	01/17/95	ND	ND	ND	ND	0.0408
	04/11/95	ND	ND	ND	ND	0.0353
MW-23	02/11/94	198.5730	190.8910	7.2400	48.8370	
	06/22/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	DRY				
	04/12/95	DRY				
MW-25	11/29/93	2.3730	0.0112	0.1330	0.3454	
	02/11/94	7.3150	0.0700	0.1150	0.5880	
	06/22/94	NOT SAMPLED				
	09/20/94	5.0500	0.0377	0.0930	0.7360	0.1090
	01/20/95	NOT SAMPLED				
	04/12/95	0.2450	0.0015	0.0036	0.0233	0.0753
EFFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0021	0.0016	0.0013	0.0038	
	02/11/94	BLOWER SHUT DOWN				
	06/22/94	BLOWER SHUT DOWN				
	09/20/94	0.0093	0.0009	ND	0.0007	ND
	01/20/95	NOT SAMPLED				
	04/12/95	0.0975	0.363	0.278	2.639	0.0075

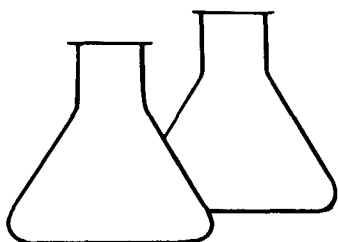
TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
INFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0015	0.0009	0.0017	0.0023	
	02/11/94	0.0010	ND	ND	0.0040	
	06/22/94		PUMP SHUT DOWN			
	09/20/94	9.6700	0.7540	0.1580	0.6330	0.0500
	01/20/95		NOT SAMPLED			
	04/12/95	2.0600	0.9870	0.2460	1.6890	0.0245
NMWQCC	12/24/87	0.0100	0.7500	0.7500	0.6200	0.1000

ND - NON-DETECT

810\QMRTABL3

APPENDIX



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 2	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-12-95
Laboratory Number:	8351	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	229	10	7.0
Benzene	3,050	10	2.0
Toluene	170	10	2.0
Ethylbenzene	636	10	2.0
p,m-Xylene	816	10	2.0
o-Xylene	57.1	10	2.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	104 %
	Bromofluorobenzene	109 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

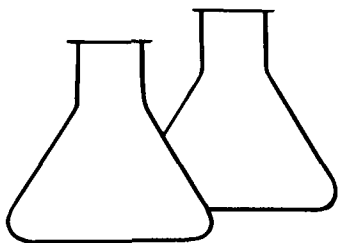
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM

Analyst

Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 3	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-12-95
Laboratory Number:	8352	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
-----	-----	-----	-----
Methyl-t-Butyl Ether	201	1	0.7
Benzene	124	1	0.2
Toluene	0.4	1	0.2
Ethylbenzene	8.2	1	0.2
p,m-Xylene	3.3	1	0.2
o-Xylene	1.1	1	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	98 %
	Bromofluorobenzene	107 %

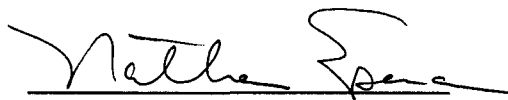
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

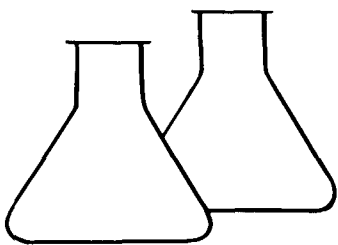
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 4	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8353	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	46.8	1	0.7
Benzene	429	1	0.2
Toluene	5.2	1	0.2
Ethylbenzene	11.2	1	0.2
p,m-Xylene	7.3	1	0.2
o-Xylene	3.1	1	0.2

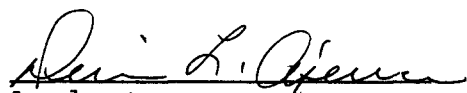
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	106 %

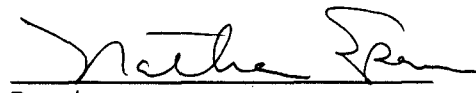
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

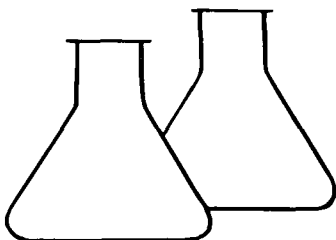
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


Analyst


Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 5	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8354	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	65.7	1	0.7
Benzene	3.1	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.2
o-Xylene	ND	1	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	104 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

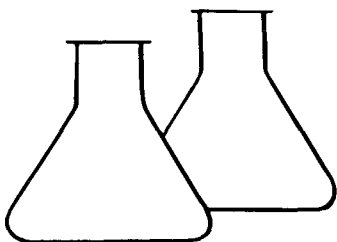
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM

David L. Jones
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Walter A. Jones
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 6	Date Reported:	04-17-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8355	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-14-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
-----	-----	-----	-----
Methyl-t-Butyl Ether	21.1	1	0.2
Benzene	27.0	1	0.2
Toluene	18.1	1	0.3
Ethylbenzene	2.6	1	0.3
p,m-Xylene	2.7	1	0.4
o-Xylene	7.5	1	0.3

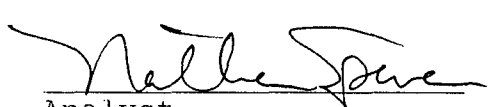
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	93 %
	Bromofluorobenzene	101 %

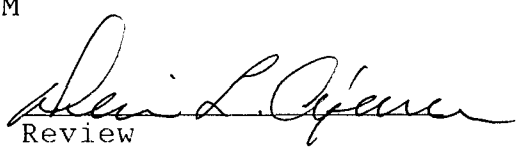
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

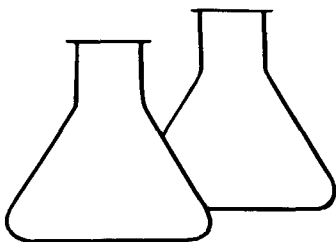
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 8	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8356	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	87.6	1	0.7
Benzene	1.3	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	0.3	1	0.2
p,m-Xylene	1.4	1	0.2
o-Xylene	0.3	1	0.2

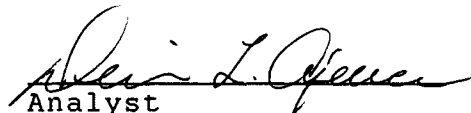
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	100 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

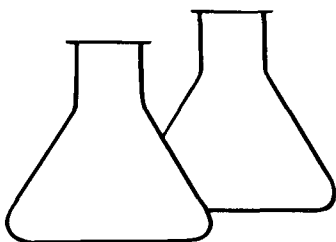
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 9	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8357	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	40.0	1	0.7
Benzene	55.8	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	0.3	1	0.2
p,m-Xylene	0.5	1	0.2
o-Xylene	ND	1	0.2

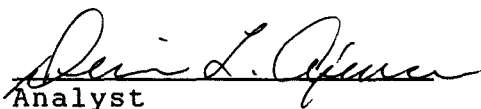
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	98 %

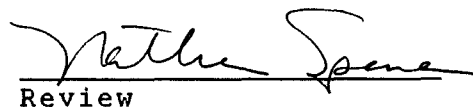
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

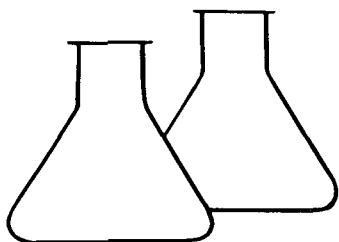
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

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Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 10	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8358	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	1	0.7
Benzene	1.5	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.2
o-Xylene	0.3	1	0.2

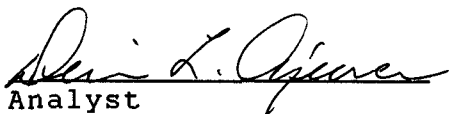
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	93 %
	Bromofluorobenzene	97 %

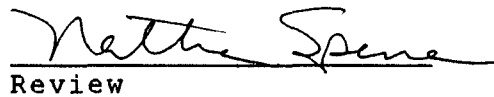
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

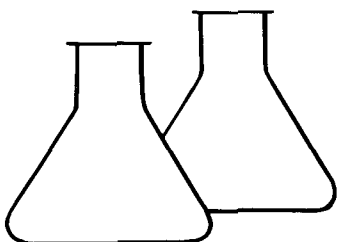
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 11	Date Reported:	04-13-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8359	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-12-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	1	0.7
Benzene	ND	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	0.2	1	0.2
p,m-Xylene	0.5	1	0.2
o-Xylene	ND	1	0.2

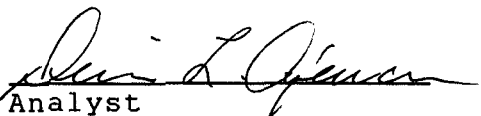
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	102 %

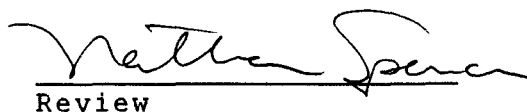
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

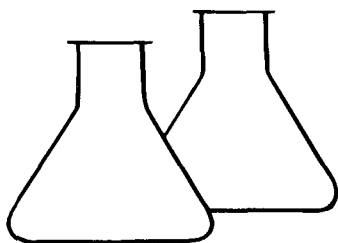
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 13	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8360	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	1	0.2
Benzene	ND	1	0.2
Toluene	ND	1	0.3
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.3
o-Xylene	ND	1	0.2

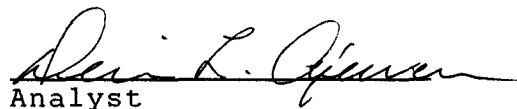
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

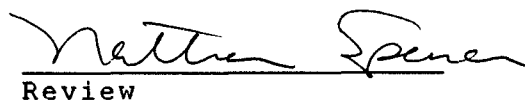
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

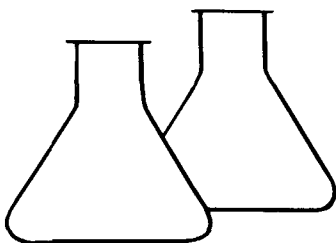
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 15	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8361	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	1	0.2
Benzene	ND	1	0.2
Toluene	ND	1	0.3
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.3
o-Xylene	ND	1	0.2

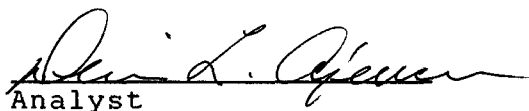
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	94 %

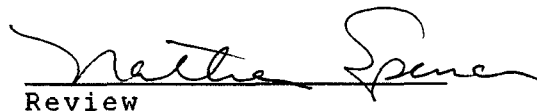
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

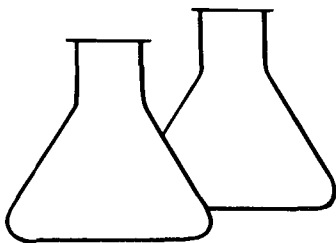
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 16	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8362	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	1	0.2
Benzene	ND	1	0.2
Toluene	ND	1	0.3
Ethylbenzene	0.3	1	0.2
p,m-Xylene	0.4	1	0.3
o-Xylene	0.4	1	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	95 %

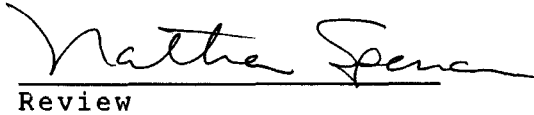
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

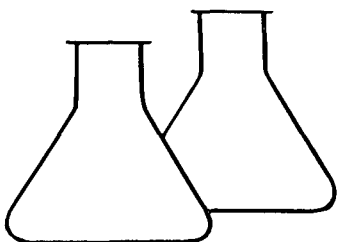
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 18	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8363	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	30.0	1	0.2
Benzene	76.6	1	0.2
Toluene	1.4	1	0.3
Ethylbenzene	4.1	1	0.2
p,m-Xylene	10.5	1	0.3
o-Xylene	1.7	1	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	95 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

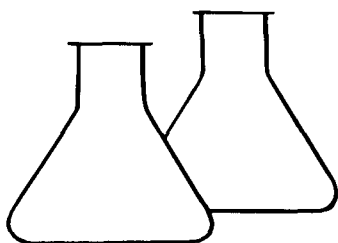
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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Analyst

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 19	Date Reported:	04-17-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8364	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-14-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	DF=	Det. Limit (ug/L)
Methyl-t-Butyl Ether	7.9	1	0.2
Benzene	5.5	1	0.2
Toluene	1.6	1	0.3
Ethylbenzene	139	1	0.3
p,m-Xylene	28.9	1	0.4
o-Xylene	1.3	1	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

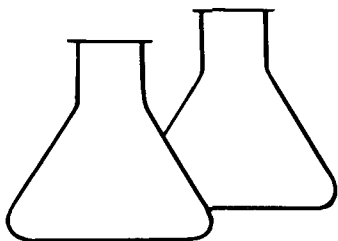
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

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Nathan Spive
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David L. Oliver
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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 20	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8365	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	137	1	0.2
Benzene	1.6	1	0.2
Toluene	5.8	1	0.3
Ethylbenzene	2.1	1	0.2
p,m-Xylene	7.3	1	0.3
o-Xylene	4.7	1	0.2

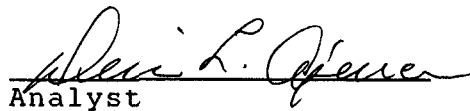
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	98 %

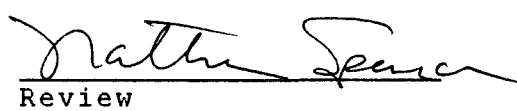
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

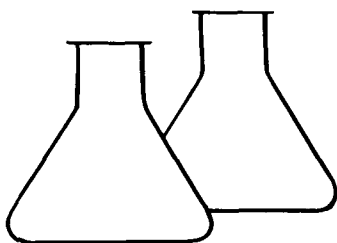
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 21	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8366	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
-----	-----	-----	-----
Methyl-t-Butyl Ether	62.6	1	0.2
Benzene	3.4	1	0.2
Toluene	1.2	1	0.3
Ethylbenzene	0.5	1	0.2
p,m-Xylene	1.0	1	0.3
o-Xylene	0.6	1	0.2

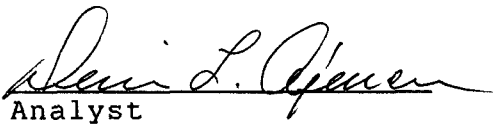
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	99 %
	Bromofluorobenzene	95 %

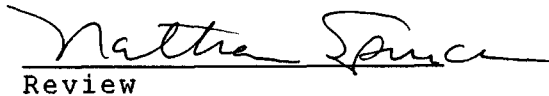
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

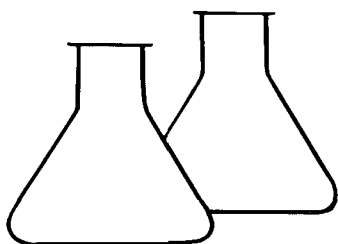
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 22	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8367	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	35.3	1	0.2
Benzene	ND	1	0.2
Toluene	ND	1	0.3
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.3
o-Xylene	ND	1	0.2

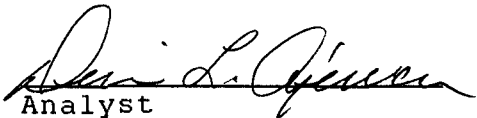
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	94 %
	Bromofluorobenzene	97 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

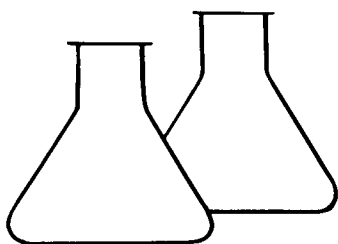
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


Analyst


Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	MW - 25	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-12-95
Laboratory Number:	8368	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	75.3	1	0.2
Benzene	245	1	0.2
Toluene	1.5	1	0.3
Ethylbenzene	3.6	1	0.2
p,m-Xylene	19.0	1	0.3
o-Xylene	4.3	1	0.2

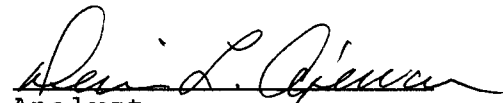
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	96 %

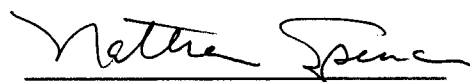
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

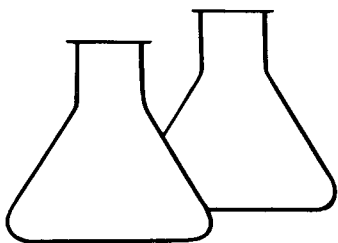
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	Influent	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-12-95
Laboratory Number:	8369	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	24.5	10	2.0
Benzene	2,060	10	2.0
Toluene	987	10	3.0
Ethylbenzene	246	10	2.0
p,m-Xylene	1,290	10	3.0
o-Xylene	399	10	2.0

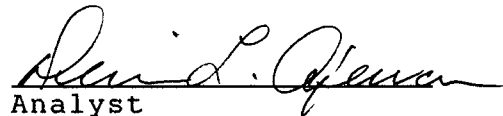
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	100 %

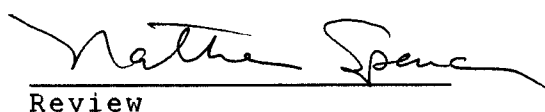
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

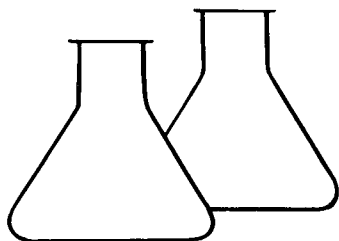
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


Analyst


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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	Effluent	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-12-95
Laboratory Number:	8370	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	7.5	10	2.0
Benzene	97.5	10	2.0
Toluene	363	10	3.0
Ethylbenzene	278	10	2.0
p,m-Xylene	1,643	10	3.0
o-Xylene	996	10	2.0

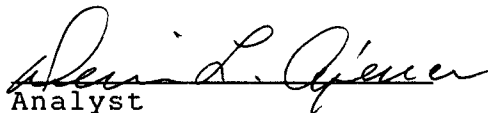
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	102 %
	Bromofluorobenzene	98 %

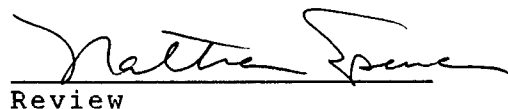
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

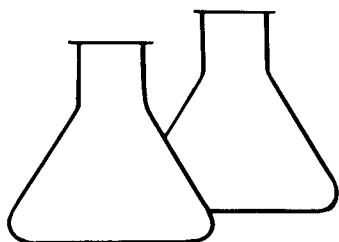
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


Analyst


Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Biotech/Thriftway	Project #:	04055-05
Sample ID:	Trip Blank	Date Reported:	04-14-95
Chain of Custody:	4152	Date Sampled:	04-11-95
Laboratory Number:	8371	Date Received:	04-12-95
Sample Matrix:	Water	Date Analyzed:	04-13-95
Preservative:	HgCl & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	1	0.2
Benzene	ND	1	0.2
Toluene	ND	1	0.3
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.3
o-Xylene	ND	1	0.2

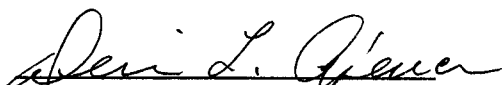
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	98 %

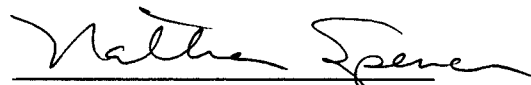
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

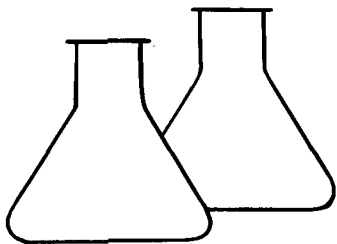
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Refinery 815, Bloomfield, NM


Analyst


Review

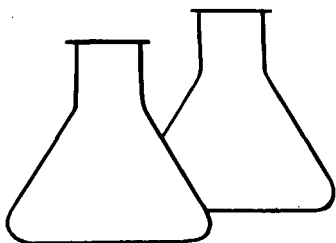


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QUALITY ASSURANCE / QUALITY CONTROL
DOCUMENTATION



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-13-95
Laboratory Number:	0412BTEX.BLK	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-12-95
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	0.7
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.2
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	108 %
	Bromofluorobenzene	104 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

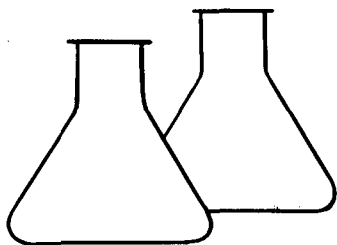
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.
N/A - Not Applicable.

Comments: QA/QC for samples 8319, 8351 - 8359

Kevin L. Jensen
Analyst

Nathan Spence
Review



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** QUALITY ASSURANCE REPORT - EPA METHOD 8020 MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-13-95
Laboratory Number:	8356	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	BTEX	Date Analyzed:	04-12-95
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Methyl-t-Butyl Ether	87.6	50.0	145	0.7	106	*
Benzene	1.3	50.0	53.0	0.2	103	39-150
Toluene	ND	50.0	47.3	0.2	94	46-148
Ethylbenzene	0.3	50.0	47.0	0.2	93	32-160
p,m-Xylene	1.4	100	96.6	0.2	95	46-148
o-Xylene	0.3	50.0	46.9	0.2	93	46-148

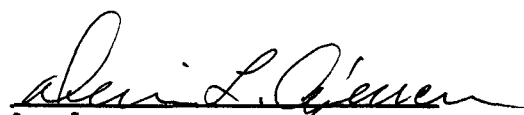
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

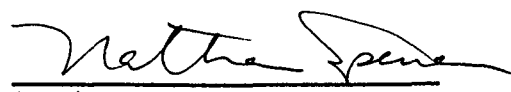
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

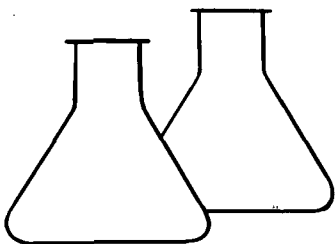
ND = Parameter not detected at the stated detection limit.

N/A = Not Applicable.

Comments: QA/QC for samples 8319, 8351 - 8359
* Administrative control limit set at 80-120%.


Analyst


Review



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**** QUALITY ASSURANCE REPORT
METHOD 8020 BTEX**

**MATRIX DUPLICATE
AROMATIC VOLATILE ORGANICS**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-13-95
Laboratory Number:	8356BTEX.	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	HgCl and Cool	Date Analyzed:	04-12-95
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Percent Difference
MTBE	87.6	84.7	3.3
Benzene	1.3	1.3	0.2
Toluene	ND	ND	1.5
Ethylbenzene	0.3	0.4	2.2
p,m-Xylene	1.4	1.5	3.0
o-Xylene	0.3	0.3	1.0

QA ACCEPTANCE CRITERIA:

Administrative control limit set
at maximum of 30% difference.

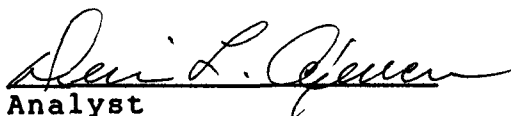
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

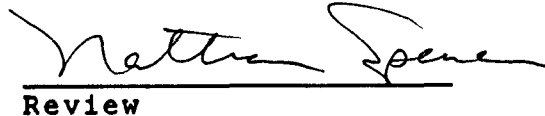
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

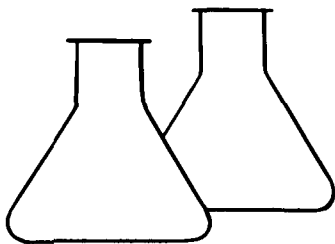
ND - Parameter not detected at the stated detection limit.

N/A - Not Applicable.

Comments: QA/QC for samples 8319, 8351 - 8359


Analyst


Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-13-95
Laboratory Number:	0413BTEX.BLK	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-13-95
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	0.2
Benzene	ND	0.2
Toluene	ND	0.3
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	93 %
	Bromofluorobenzene	95 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

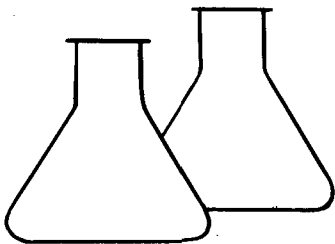
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND = Parameter not detected at the stated detection limit.
N/A = Not Applicable.

Comments: QA/QC for samples 8360 - 8371

Kevin L. Givens
Analyst

Walter Spence
Review



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**** QUALITY ASSURANCE REPORT
METHOD 8020 BTEX**

**MATRIX DUPLICATE
AROMATIC VOLATILE ORGANICS**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-14-95
Laboratory Number:	8360	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	HgCl and Cool	Date Analyzed:	04-13-95
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Percent Difference
MTBE	ND	ND	0.0
Benzene	ND	ND	0.0
Toluene	ND	ND	4.5
Ethylbenzene	ND	ND	2.6
p,m-Xylene	ND	ND	1.8
o-Xylene	ND	ND	0.6

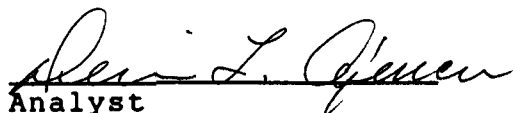
QA ACCEPTANCE CRITERIA: Administrative control limit set at maximum of 30% difference.

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

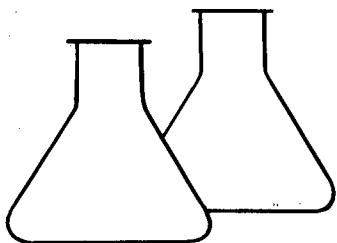
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND = Parameter not detected at the stated detection limit.
N/A = Not Applicable.

Comments: QA/QC for samples 8360 - 8371


Analyst


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** QUALITY ASSURANCE REPORT - EPA METHOD 8020 MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-14-95
Laboratory Number:	8360	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	BTEX	Date Analyzed:	04-13-95
Condition:	N/A	Analysis Requested:	BTEX

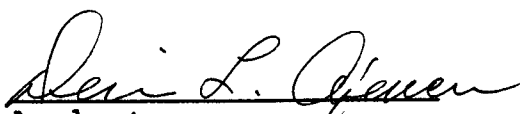
Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Methyl-t-Butyl Ether	ND	50.0	46.6	0.2	93	*
Benzene	1.3	50.0	51.7	0.2	103	39-150
Toluene	ND	50.0	48.4	0.3	97	46-148
Ethylbenzene	0.3	50.0	48.7	0.2	97	32-160
p,m-Xylene	1.4	100	90.4	0.3	95	46-148
o-Xylene	0.3	50.0	47.8	0.2	95	46-148

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating .
Solid Waste, SW-846, USEPA, July 1992.

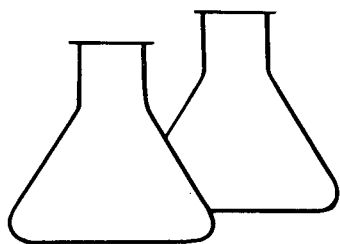
Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND = Parameter not detected at the stated detection limit.
N/A = Not Applicable.

Comments: QA/QC for samples 8360 - 8371
* Administrative control limit set at 80-120%.


Analyst


Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-17-95
Laboratory Number:	0414BTLB	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-14-95
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Methyl-t-Butyl Ether	ND	0.2
Benzene	ND	0.2
Toluene	ND	0.3
Ethylbenzene	ND	0.3
p,m-Xylene	ND	0.4
o-Xylene	ND	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90 %
	Bromofluorobenzene	100 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

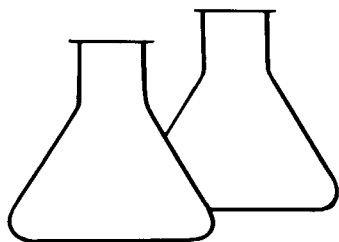
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND = Parameter not detected at the stated detection limit.
N/A = Not Applicable.

Comments: QA/QC for samples 8355, 8364, 8372 - 8378.

Matthew Spence
Analyst

David L. Spence
Review



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** QUALITY ASSURANCE REPORT
METHOD 8020 BTEX

MATRIX DUPLICATE
AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-17-95
Laboratory Number:	8355	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	HgCl and Cool	Date Analyzed:	04-14-95
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Percent Difference
MTBE	21.1	20.0	5.4
Benzene	27.0	21.2	24.1
Toluene	18.1	18.3	0.6
Ethylbenzene	2.6	2.3	15.8
p,m-Xylene	27.1	26.5	2.0
o-Xylene	7.5	7.0	6.7

QA ACCEPTANCE CRITERIA: Administrative control limit set at maximum of 30% difference.

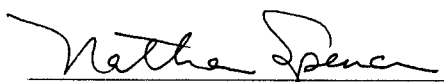
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

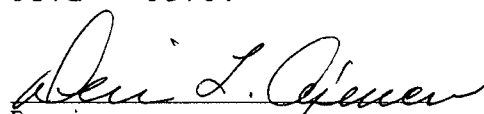
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND = Parameter not detected at the stated detection limit.

N/A = Not Applicable.

Comments: QA/QC for samples 8355, 8364, 8372 - 8378.


Analyst


Review

4152
1083 NS

CHAIN OF CUSTODY RECORD

Client/Project Name <i>Thriftway / Refinery 815</i>		Project Location <i>Blossfield, N.M.</i>		ANALYSIS/PARAMETERS										
Sampler: (Signature) <i>Jack O. Dewey</i>		Chain of Custody Tape No.		Sample Date		Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks				
MW 2	4/12/95	1015	8351	Water	2	✓	BTEX							
MW 3	4/12/95	0840	8352	Water	2	✓								
MW 4	4/11/95	1640	8353	Water	2	✓								
MW 5	4/11/95	1540	8354	Water	2	✓								
MW 6	4/12/95	0920	8355	Water	2	✓								
MW 8	4/11/95	1330	8356	Water	2	✓								
MW 9	4/11/95	1310	8357	Water	2	✓								
MW 10	4/11/95	1038	8358	Water	2	✓								
MW 11	4/11/95	1150	8359	Water	2	✓								
Relinquished by: (Signature) <i>Jack O. Dewey</i>		Date 4/12/95		Time 1400		Received by: (Signature) <i>Nathan Spencer</i>		Date 4/12/95		Time 1400				
Relinquished by: (Signature)						Received by: (Signature)								
Relinquished by: (Signature)						Received by: (Signature)								

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

4153 NS
4152 2 of 3

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS													
04055-05		Bloofield, N.M.															
Thriftway Refinery/815		Chain of Custody Tape No.															
Sampler: (Signature)		Sample No./ Identification		Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	DATE								Remarks
Jack D. Dewey																	
	MW 13	4/11/95	1043	8360	Water	2											
	MW 15	4/11/95	1240	8361	Water	2											
	MW 16	4/11/95	1105	8362	Water	2											
	MW 18	4/11/95	1605	8363	Water	2											
	MW 19	4/11/95	1520	8364	Water	2											
	MW 20	4/11/95	1400	8365	Water	2											
	MW 21	4/11/95	1440	8366	Water	2											
	MW 22	4/11/95	1425	8367	Water	2											
	MW 25	4/12/95	1100	8368	Water	2											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Jack D. Dewey		4/12/95		1400		Nathan Spivey		4/12/95		1400							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							

ENVIROTECH INC.

5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

BioTECH REMEDIATION INC.

**QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO 87413**

**PREPARED FOR
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER**

RECEIVED

MAR 27 1995

Environmental Bureau
Oil Conservation Division

January 20, 1995



QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO 87413

710 East 20th Street, Suite 400
Farmington, New Mexico 87401
Field Office: (505) 632-3365
Fax: (505) 632-9850

PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER

JANUARY 20, 1995

BY
BIOTECH REMEDIATION INC.
710 EAST 20TH ST., SUITE #400
FARMINGTON, NEW MEXICO 87401

PREPARED BY:

Jack D. Dewey

JACK DEWEY
HYDROLOGIST

REVIEWED BY:

Ken Sinks

KEN SINKS, CHEM. E. P.E.
SENIOR SCIENTIST/ENGINEER

810\QM012095.RPT

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- QUALITY CONTROL DATA
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1.0 INTRODUCTION

The purpose of this report is to update the data base information for the Thriftway Refinery, through January 20, 1995. BioTech Remediation, Inc., (BioTech), submits this monitoring and sampling update on behalf of Thriftway Company, pursuant to the requirements of the New Mexico Oil Conservation Division.

This report defines the relative ground water elevation, the approximate size and location of the free-product plumes and the current activity at the site. It also describes the extent of water contamination based on the NMWQCC specification of 0.01 mg/L Benzene in water.

This work is compiled in compliance with the terms of the Thriftway Refinery Ground Water Discharge Plan GW-55.

2.0 QUARTERLY SUMMARY OF SITE ACTIVITIES

Site monitoring was performed on January 17, and 20, 1995. During this quarterly site visit, the following activities were performed:

- Collect ground water elevation data
- Collect ground water samples from the monitor wells
- Measure free-product thickness
- Bail free-product from wells containing free-product

BioTech now adds muriatic acid (HCL) to the inflow for the air stripper by a continuous drip system to maintain a pH of 6.0 to 7.0. This has not eliminated the scale problem in the stripper and piping, but has lengthened the time between acid treatments and is less corrosive to the metal parts. It has also made the deposits in the stripper, pump and piping, a soft material rather than rock-like.

Free product was pumped from several wells in the area of MW-12 with a down hole 1 5/8 inch diameter submersible skimmer pump. Two (2) new recovery wells R-24 and R-25 were installed in the plume near MW-12. All recovery and monitor wells that contained free product were bailed at least once this quarter (see Table 2).

3.0 SUMMARY OF GROUND WATER ELEVATION DATA

Table 1 lists the relative ground water elevation data, for the refinery for the last eight (8) sampling events. The most recent relative ground water elevation data, collected January 17, and 20, 1995 is presented on the Ground Water Elevation Contour Map (see Figure 1). The field data was gathered using an ORS water interface probe and a 100' well liquid level measuring tape. The difference between the water level and the liquid level is the product thickness (see Table 2).

From the Ground Water Contour Map (Figure 1), it appears that the ground water gradient is affected by the following natural and man-made features: 1) Kuntz Wash, 2) the small dry arroyo east of the property, 3) the fire pond; and 4) the ground water recovery leach line (GWRL) and injection gallery. The plugging of the artesian well has resulted in a significant decrease in the water levels along the north side of the property. There is now an obvious depression along the GWRL along the north fence and an obvious decrease in the ground water gradient down stream of the recovery system in the north-west corner of the property.

4.0 SUMMARY OF PHASE-SEPARATED PRODUCT CONDITIONS

Free-product was found in monitor wells MW-1, MW-12, MW-14, MW-17, MW-26, MW-28, MW-29, 17-1, 17-4 and 17-5, as well as in some of the recovery wells and the stripper UST. Some of the recovery wells no longer contain free product. The relative level of free-product, in the monitor wells, was measured with an ORS probe and a 100' liquid level measuring tape. The difference between the ORS probe reading and the liquid level measuring tape is the thickness of free product. The product thickness in some of the recovery wells is misleading and were not measured as they are screened only at the product level with five (5) feet or more of pipe below the screen to accumulate product. This was done to increase product recovery. The thickness of free-product is recorded in feet and presented in Table 2. The amount of free-product collected from the bailing of these monitor and recovery wells is also shown in Table 2. BioTech also recovered 800 liters of product from the UST at the end of the ground water recovery leach line at the stripper. Also 460 liters of product were recovered from two (2) new recovery wells in the plume near MW-12. The total product recovered this quarter is 1,294.7 liters. The total product recovered at the Refinery to date is 2,145.6 liters.

The product and water recovered during bailing was properly disposed of in a collection tank provided on the site. The collection tank contents are handled as follows: 1) free-product is pumped off and stored for later processing; and 2) the contaminated water is evaporated in the refinery waste water evaporation pond system.

The current phase-separated product plumes are presented in Figure 3.

5.0 SUMMARY OF GROUND WATER CHEMISTRY DATA

Table 3 summarizes the last eight (8) data collection events for ground water quality for the refinery. Ground water samples for analysis were collected January 17 and 20, 1995, from most of the monitor wells not containing free-product. Ground water from monitor wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13, MW-15, MW-16, MW-18, MW-19, MW-20, MW-21, and MW-22 were analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX) and Methyl-Tertiary-Butyl-Ether (MTBE). The extent of the dissolved phase ground water plume at this site (based upon the regulated Benzene standard of 0.01 mg/l), is shown in Figure 2. The dissolved phase plume size has decreased significantly in the last quarter. BioTech feels this is due to natural attenuation and the interception of contamination by the leach line to the stripper.

The samples were gathered using disposable bailers. New cord was used on each bailer to further ensure no cross-contamination of wells occurred. At least three (3) well volumes were removed, when ever possible. The samples were placed in 40 ml vials, prepared in the field with two (2) or three (3) drops of 5% by weight HgCl_2 solution. The samples were all marked with their respective

location, monitor well number, desired analyses, date, time of sampling, preservative, and by whom sampled. The samples were then transported, on ice, to the BioTech Water Quality Laboratories. A Chain of Custody record accompanied the samples and is included with the laboratory analysis reports in the Appendix. Quality Control Sample Analysis Reports are also included and are in the Appendix.

6.0 DISCUSSION

The magnitude of the dissolved phase plume has decreased significantly over the period of the last quarter. Monitor wells MW-6, MW-19 and MW-20 decreased to below the NMWQCC specification of 10 ug/L Benzene in water. Monitor wells MW-2, MW-3, MW-6, MW-7, MW-9 and MW-18 all decreased significantly. Monitor wells MW-6 and MW-7 decreased from 507 ug/L to 0.9 ug/L and 14,400 ug/L to 176 ug/L respectively in the last 1 to 1 1/2 years. These two (2) monitor wells MW-6 and MW-7 are on the leading edge of the plume to the north side of the property. Only two (2) monitor wells increased in Benzene concentration, monitor wells MW-4 and MW-21. Both of these monitor wells are down gradient from a gas well pit near the north-west corner of the property which may be the source. That gas well pit has recently been excavated and an open top fiber glass tank installed.

From the Ground Water Contour Map (Figure 1), it appears that the ground water gradient is affected by the following natural and man-made features: 1) Kuntz Wash, 2) the small dry arroyo east of the property, 3) the fire pond; and 4) the ground water recovery leach line and injection gallery.

All wells containing free product were bailed at least once

this quarter. Wells MW-12, R-24, and R-25 were pumped for several days for four (4) to eight (8) hours a day producing from a trace to five (5) gallons per hour (gph) with a 1 5/8 inch diameter submersible bladder pump. With eight inches (8") or more of product in the well the pump is designed to pump at 5 gph, but will continue to pump just product as long as there is product in the well. A total of 480 liters of product was pumped from these three (3) wells.

This quarter approximately 1,297.9 liters of free-product has been recovered from the recovery wells and monitor wells in the vicinity of monitor wells MW-12, MW-14, MW-17, Tank 23 and from the stripper UST. BioTech has recovered 800 liters of product from the stripper UST this quarter. The total recovered product as of the date of this report was 2,145.6 liters. BioTech plans to hand auger some test holes along the up gradient side of the leach line to determine the source of the product in the stripper UST.

BioTech is keeping a record of the product being recovered from the wells and will continue to report on the recovery progress (see Table 2). The recovery wells near monitor well MW-14 have removed most of the product in the area covered. Since the last QMR those wells have produced more water than product, only a gallon of product total from that area where a year ago several of

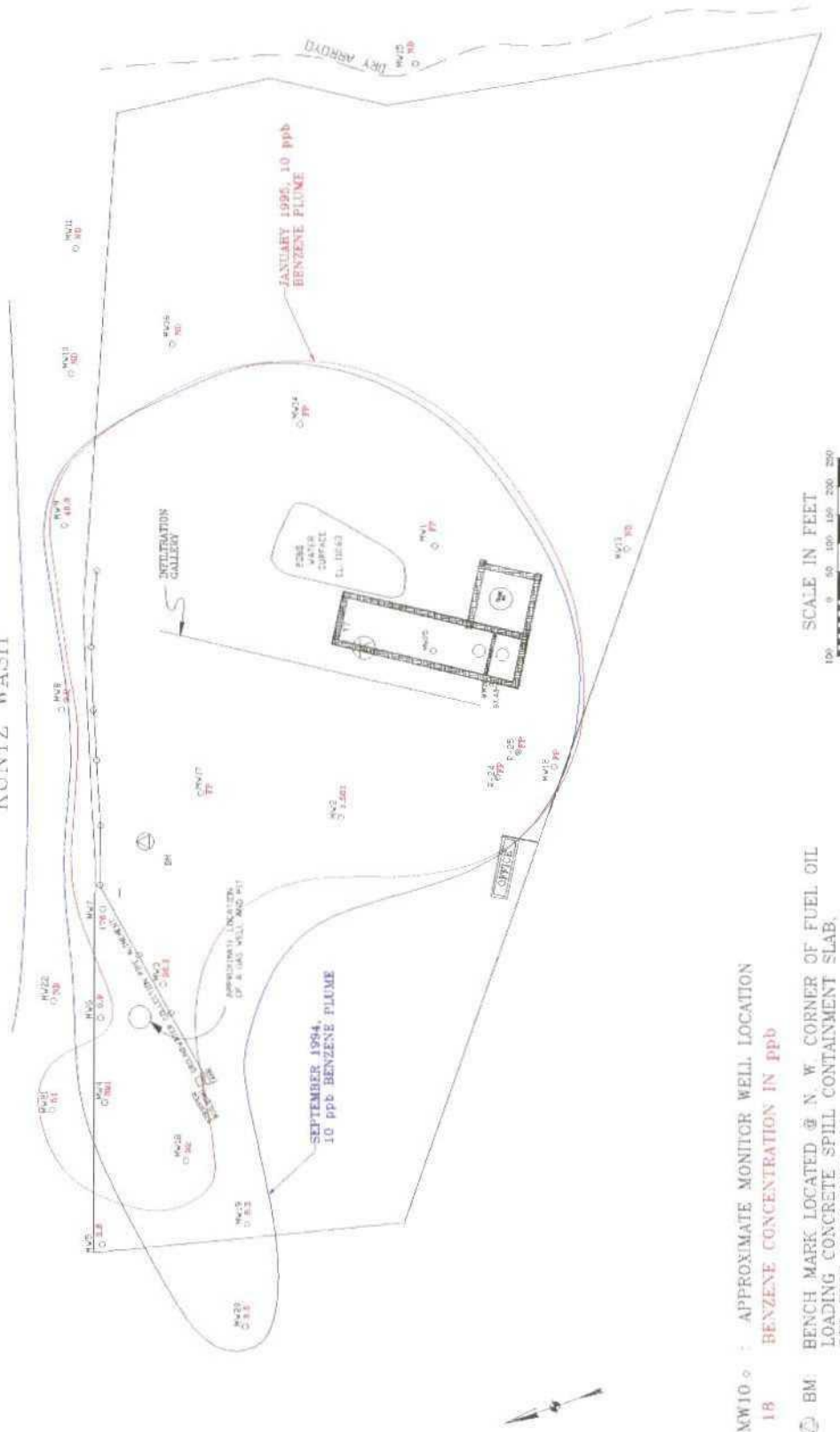
(see Table 2). The recovery wells near monitor well MW-14 have removed most of the product in the area covered. Since the last QMR those wells have produced more water than product, only a gallon of product total from that area where a year ago several of the recovery wells were producing five (5) gallons every two (2) weeks.

The various plumes sizes and thicknesses for this site will continue to be reported. Note that the down stream end of the plume, in the north-west corner of the property, receded this quarter. There are no wells at this time, west of Thriftway property, that exceed 10 ug/l Benzene regulatory limit. There are only two (2) wells north of the property, MW-9 (48.3 ug/l) and MW-21 (51 ug/l), that exceed the 10 ug/l Benzene regulatory limit.

BioTech, as directed by Thriftway Company, will continue quarterly sampling and monitoring of the site, as well as routine maintenance of the recovery, treatment and injection gallery. This report of the operation and maintenance of the site remediation systems at the Thriftway Refinery is provided to comply with the Oil Conservation Division requirements and the Site Ground Water Discharge Plan GW-55.

FIGURES

KUNTZ WASH



NW10 : APPROXIMATE MONITOR WELL LOCATION

18 BENZENE CONCENTRATION IN ppb

BM: BENCH MARK LOCATED @ N. W CORNER OF FUEL OIL LOADING CONCRETE SPILL CONTAINMENT SLAB, RELATIVE ELEVATION 100'

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810\bp012095.SKD

ENGINEER: J. DEWEY
DRAFTED BY: J. DEWEY

FIGURE 2 10 ppb
BENZENE PLUME

JANUARY 20, 1995

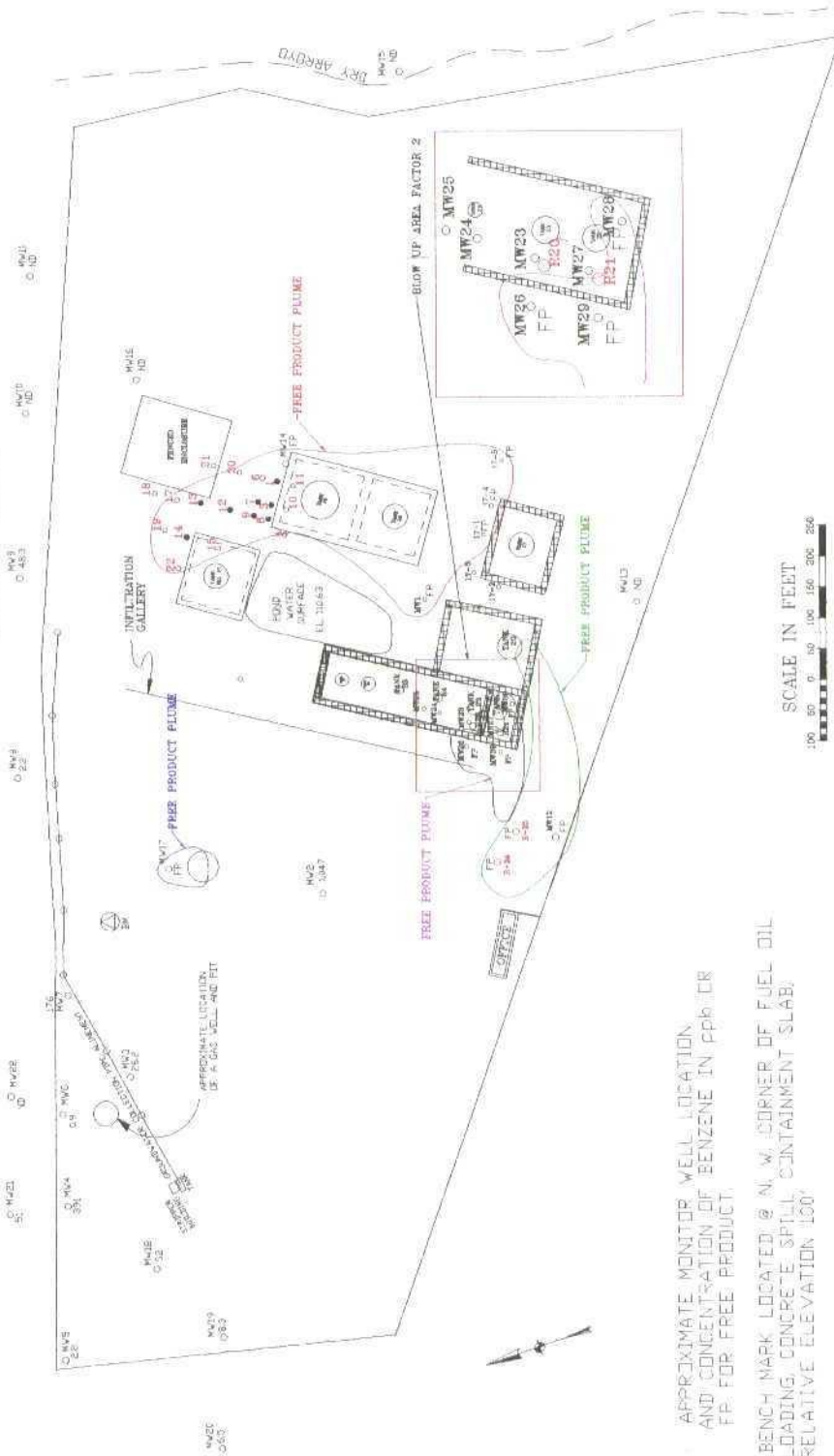
BioTech
REMEDICATION

710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401

OFFICE: (505) 632-3365

FAX: (505) 632-0030

KUNTZ WASH



MW10: APPROXIMATE MONITOR WELL LOCATION AND CONCENTRATION OF BENZENE IN PPB OR FP, FOR FREE PRODUCT.

BM: BENCH MARK LOCATED @ N.W. CORNER OF FUEL OIL LOADING, CONCRETE SPILL CONTAINMENT SLAB, RELATIVE ELEVATION 1000'

15: RECOVERY WELLS

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810\PP012095.SKD

ENGINEER: J. DEWEY
DRAFTED BY: J. DEWEY
FIGURE 3: FREE
PRODUCT PLUMES
JANUARY 20, 1995



710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
OFFICE: (505) 632-3365
FAX: (505) 632-0030

TABLES

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
1	114.08	09/02/92	13:15	14.00	100.08
		04/28/93	10:45	12.77	101.31
		09/14/93	-	13.52	100.56
		11/29/93	09:30	13.51	100.57
		02/11/94	16:15	12.97	101.11
		06/14/94	14:50	13.70	100.38
		09/20/94	10:55	14.60	99.48
		01/20/95	11:21	16.08	98.00
2	107.62	08/31/92	13:07	10.25	97.37
		04/28/93	10:25	9.24	98.18
		09/14/93		10.27	97.35
		11/29/93	03:33	10.23	97.39
		02/11/94	14:10	9.91	97.71
		06/14/94	13:30	10.59	97.03
		09/20/94	09:25	11.43	96.19
		01/20/95	13:39	11.73	95.89
3	96.28	09/01/92	12:45	2.24	94.04
		04/28/93	10:10	2.01	94.27
		09/14/93		1.95	94.33
		11/30/93	10:10	1.72	94.56
		02/11/94	11:25	1.27	95.01
		06/14/94	14:05	2.40	93.88
		09/19/94	15:25	3.93	92.35
		01/20/95	12:10	4.75	91.53
4	95.82	09/01/92	12:15	3.78	92.04
		04/28/93	9:50	3.30	92.52
		09/13/93		3.65	92.17
		11/30/93	09:55	3.15	92.67
		02/11/94	10:55	2.93	92.89
		06/14/94	14:00	3.85	91.97
		09/19/94	16:05	4.55	91.27
		01/17/95	16:09	4.77	91.05
5	94.66	09/01/92	12:00	4.20	90.46
		04/28/93	9:45	3.64	91.02
		09/13/93		4.26	90.40
		11/30/93	09:38	3.73	90.93
		02/11/94	10:20	3.44	91.22
		06/14/94	13:45	4.13	90.53
		09/19/94	15:55	4.79	89.87
		01/17/95	15:47	4.54	90.12

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVE ELEVATION (feet)
6	96.31	09/01/92	12:30	2.63	93.68
		04/28/93	10:00	2.44	93.87
		09/13/93		2.15	94.16
		11/29/93	04:25	2.03	94.28
		02/11/94	11:00	1.91	94.40
		06/14/94	15:00	2.89	93.42
		09/19/94	16:15	4.03	92.28
		01/20/95	12:45	4.65	91.66
7	96.79	09/01/92		WELL NOT FOUND	
		04/28/93		WELL NOT FOUND	
		09/14/93		5.15	91.64
		11/29/93	04:10	4.70	92.09
		02/11/94	11:35	4.36	92.43
		06/14/94	14:10	5.63	91.16
		09/19/94	16:25	7.21	89.58
		01/20/95	13:11	7.60	89.19
8	97.04	09/02/92	14:50	2.75	94.29
		04/28/93	11:15	1.95	95.09
		09/14/93		1.97	95.07
		11/29/93	03:00	1.54	95.50
		02/11/94	09:00	1.17	95.87
		06/14/94	11:30	3.09	93.95
		09/19/94	14:30	3.42	93.62
		01/17/95	13:17	3.00	94.04
9	100.16	09/02/92	14:45	3.50	96.66
		04/28/93	11:25	2.87	97.29
		09/14/93		2.90	97.26
		11/29/93	03:15	2.83	97.33
		02/10/94	15:57	2.62	97.54
		06/14/94	11:15	3.85	96.31
		09/19/94	14:20	4.37	95.79
		01/17/95	12:53	4.20	95.96
10	101.55	09/02/92	15:05	3.50	98.05
		04/28/93	11:35	3.02	98.53
		09/14/93		3.23	98.32
		11/29/93	02:40	3.11	98.44
		02/10/94	15:55	2.31	99.24
		06/14/94	11:00	3.78	97.77
		09/19/94	13:45	4.51	97.04
		01/17/95	12:16	4.09	97.46

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVE ELEVATION (feet)
11	103.63	09/02/92	15:15	4.65	98.98
		04/28/93	11:45	4.22	99.41
		09/14/93		4.63	99.00
		11/29/93	02:30	4.41	99.22
		02/10/94	15:50	4.16	99.47
		06/14/94	10:30	4.87	98.76
		09/19/94	13:55	5.09	98.54
		01/17/95	10:30	4.83	98.80
12	111.11	08/31/92	13:30	13.67	97.44
		04/28/93	9:10	11.50	99.61
		09/14/93		15.39	95.72
		11/29/93	08:30	14.12	96.99
		02/14/94	14:30	11.99	99.12
		06/14/94	15:40	14.01	97.10
		09/20/94	11:45	15.25	95.86
		01/20/95	15:57	15.18	95.93
13	117.12	09/02/92	13:50	16.25	100.87
		04/28/93	9:00	15.77	101.35
		09/14/93		16.38	100.74
		11/29/93	09:15	16.41	100.71
		02/10/94	15:15	16.17	100.95
		06/14/94	10:00	16.46	100.66
		09/19/94	11:45	17.05	100.07
		01/20/95	10:37	17.30	99.82
14	111.94	09/02/92	14:00	13.00	98.94
		04/28/93	10:55	11.34	100.60
		09/14/93		12.83	99.11
		11/29/93	10:15	12.74	99.20
		02/14/94	16:00	11.22	100.72
		06/15/94	09:10	12.71	99.23
		09/20/94	11:30	13.32	98.62
		01/20/95	15:01	12.59	99.35
15	114.53	09/03/92	8:00	13.05	101.48
		04/28/93	11:55	12.57	101.96
		09/14/93		13.10	101.43
		11/29/93	02:20	13.05	101.48
		02/10/94	15:45	12.89	101.64
		06/14/94	10:45	12.81	101.72
		09/19/94	14:10	13.15	101.38
		01/17/95	11:50	13.17	101.36

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVE ELEVATION (feet)
16	107.64	09/02/92	14:25	8.45	99.19
		04/28/93	11:05	7.90	99.74
		09/14/93	LEVEL NOT TAKEN		
		11/29/93	02:00	8.26	99.38
		02/10/94	15:30	8.03	99.61
		06/14/94	10:15	8.51	99.13
		09/19/94	12:00	8.92	98.72
		01/20/95	11:03	8.78	98.86
17	100.84	08/31/93	12:44	4.65	96.19
		04/28/93	10:35	3.35	97.49
		09/14/93		4.40	96.44
		11/29/93	03:50	4.11	96.73
		02/11/94	14:25	3.90	96.94
		06/14/94	14:12	5.01	95.83
		09/20/94	11:15	6.11	94.73
		01/20/95	14:22	6.10	94.74
18	94.04	09/01/92	11:51	2.39	91.65
		04/28/93	9:35	2.14	91.90
		09/13/93		2.11	91.93
		11/30/93	10:25	2.20	91.84
		02/11/94	10:10	1.75	92.29
		06/14/94	15:10	2.60	91.44
		09/19/94	15:45	3.29	90.75
		01/17/95	15:25	3.64	90.40
19	93.64	09/02/92	11:30	2.41	91.23
		04/28/93	9:25	2.05	91.59
		09/13/93		1.92	91.72
		11/30/93	09:20	2.25	91.39
		02/11/94	10:00	2.09	91.55
		06/14/94	13:40	2.55	91.09
		09/19/94	15:35	3.14	90.50
		01/17/95	15:04	3.02	90.62
20	96.01	09/01/92	13:05	3.85	92.16
		04/28/93	8:30	4.18	91.83
		09/13/93		4.56	91.45
	96.11	11/30/93	08:25	4.42	91.69
		02/10/94	16:17	4.30	91.81
		06/14/94	15:30	4.64	91.47
		09/19/94	14:45	5.15	90.96
		01/17/95	13:45	4.99	91.12

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
GROUNDWATER MONITORING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVE ELEVATION (feet)
21	94.34	09/01/92	13:20	3.97	90.37
		04/28/93	8:40	2.27	92.07
		09/13/93		2.19	92.15
		11/30/93	08:45	1.90	92.44
		02/10/94	16:25	1.92	92.42
		06/14/94	15:15	2.64	91.70
		09/19/94	14:55	3.38	90.96
		01/17/95	14:08	3.09	91.25
22	97.51	09/01/92	13:30	3.34	94.17
		04/28/93	8:50	4.44	93.07
		09/13/93		4.50	93.01
		11/30/93	08:35	4.09	93.42
		02/10/94	16:25	3.75	93.76
		06/14/94	15:20	4.96	92.55
		09/19/94	15:05	5.69	91.82
		01/17/95	14:26	5.31	92.20
23	115.77	06/14/94	16:06	14.27	101.50
		09/20/94	11:50	13.82	101.95
		01/20/95	15:19	dry	
24	116.17	06/14/94	16:08	13.97	102.20
		09/20/94	11:52	17.30	98.87
		01/20/95	15:16	17.83	98.34
25	112.62	11/29/93	10:45	9.56	103.06
		02/14/94	15:00	8.01	104.61
		06/14/94	16:04	9.58	103.04
		09/20/94	11:00	11.15	101.47
		01/20/95	15:15	13.78	98.84
26	112.36	06/14/94	16:10	13.77	98.59
		09/20/94	11:52	14.15	98.21
		01/20/95	15:46	14.30	98.06
28	113.06	06/14/94	16:12	13.85	99.21
		09/20/94	11:54	13.62	99.44
		01/20/95	15:22	14.71	98.35
29	111.91	06/14/94	16:14	14.66	97.25
		09/20/94	11:56	14.48	97.43
		01/20/95	15:41	14.48	97.43

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
MW-1	01/20/95	1.71	2	2
MW-12	09/14/93	2.00	NOT BAILED	
	11/29/93	1.97	6.5	6.5
	02/14/94	0.47	1.8	8.3
	06/15/94	1.87	20	28.3
	09/20/94	3.17	16	44.3
	01/20/95	1.96	20**	64.3
MW-14	09/14/93	0.50	--	
	11/29/93	1.49	4.8	4.8
	02/14/94	0.95	2.8	7.6
	06/15/94	1.30	1.6	9.2
	09/20/94	1.18	1.5	10.7
	01/20/95	0.27	0.2	10.9
MW-17	09/20/94	0.25	4	4
	01/20/95	0.27	4.5	8.5
	06/15/94	1.17	1.6	1.6
	08/22/94	1.71	1.8	3.4
	09/20/94	0.00	0	3.4
	01/20/95	DRY	0	3.4
MW-26	04/27/94	1	9.6	9.6
	06/15/94	0.74	20.8	30.4
	08/22/94	1.12	2	32.4
	09/20/94	0.08	0	32.4
	01/20/95	T	0	32.4
MW-27	04/27/94	1	13.6	13.6
	06/15/94	1.43	18.4	32
	09/20/94	0.00	0	32
	01/20/95	DRY	0	32
MW-28	04/27/94	0.83	6.4	6.4
	06/15/94	0.5	11.2	17.6
	08/22/94	0.83	4	21.6
	09/20/94	0	0	21.6
	01/20/95	T	0	21.6
MW-29	04/27/94	0.25	3.2	3.2
	06/15/94	2.36	14.4	17.6
	08/22/94	1.17	1.8	19.4
	09/20/94	1.1	1.8	22.2
	01/20/95	0.78	1.2	23.4
MW-17-1	06/15/94	1.62	8	8
	01/20/95	0.8	4	12
MW-17-4	06/15/94	1.13	*	0
	01/20/95	1.57	*	0
MW-17-5	06/15/94	0.84	3.2	3.2
	01/20/95	1.45	6	9.2

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON RECLAIMED	ACCUM.
R-1	04/27/94	1.17	16	16
	06/15/94	1.25	16.8	32.8
	09/20/94	0.12	9.5	42.3
	01/20/95	T	0	42.3
R-3	04/27/94	2.08	27.2	27.2
	06/15/94	0.42	20.8	48
	09/20/94	0.33	10.5	58.5
	01/20/95	T	0	58.5
R-8	04/27/94	0.33	40	40
	06/15/94	1.33	49.6	89.6
	09/20/94	1.5	32	121.6
	01/20/95	T	0	121.6
R-9	04/27/94	2.25	40	40
	06/15/94	2.42	60	100
	09/20/94	0.25	2	102
	01/20/95	T	0	102
R-12	04/27/94	2.33	40	40
	06/15/94	2.5	60	100
	09/20/94	1.17	29	129
	01/20/95	T	0	129
R-13	04/27/94	2.42	40	40
	06/15/94	2.67	60	100
	09/20/94	0.12	9.5	109.5
	01/20/95	T	0	109.5
R-14	04/27/94	2.33	40	40
	06/15/94	2.67	60	100
	09/20/94	0.12	3	103
	01/20/95	T	0	103
R-24	01/20/95	0.8	360**	360
R-25	01/20/95	0.9	100**	100
STRIPPER TANK	01/20/95		800	800
TOTAL THIS QUARTER				1,297.9
TOTAL TO DATE				2,145.6
ND - NON-DETECT (no visible product detected in the bailer)				
* - Couldn't get the bailer down the well.				
**- Pumped with a down hole bladder pump.				
810\QMRTABL2				

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-1	09/02/92	FREE PRODUCT FOUND IN WELL				
	04/28/93	FREE PRODUCT FOUND IN WELL				
	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	NO FREE PRODUCT BUT A TRACE				
	02/11/94	7.1210	0.0630	0.2270	0.5970	
	06/22/94	0.0600	0.0240	0.5800	0.1206	1.6280
	09/20/94	9.8510	0.0105	0.2140	0.8960	0.3820
	01/20/95	FREE PRODUCT FOUND IN WELL				
MW-2	08/31/92	FREE PRODUCT FOUND IN WELL				
	04/28/93	0.9740	0.1890	0.2730	0.8430	
	09/14/93	1.0470	0.2450	0.4870	0.7940	
	11/29/93	2.1150	0.1360	0.3950	0.5830	
	02/11/94	3.4780	0.0630	0.5810	0.7860	
	06/22/94	1.0700	0.0239	0.0139	0.4732	0.1380
	09/20/94	3.0050	0.0380	0.3690	0.5096	0.0880
	01/20/95	1.5810	0.0159	0.3950	0.5317	0.0830
MW-3	09/01/92	0.0180	0.0040	0.0100	0.1080	
	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	0.0040	
	11/30/93	ND	ND	0.0011	0.0007	
	02/11/94	ND	ND	ND	ND	
	06/22/94	0.0128	ND	ND	0.0011	0.0236
	09/19/94	0.0730	0.0009	0.0006	0.0023	0.0390
	01/20/95	0.0262	0.0010	0.0048	0.0042	0.1110
MW-4	09/01/92	0.0050	0.0070	0.0170	0.0560	
	04/28/93	0.5880	0.0040	0.0390	0.3290	
	09/13/93	0.3240	0.0210	0.0510	0.2870	
	11/30/93	0.1000	0.0053	0.0013	0.0035	
	02/11/94	1.1270	0.0100	0.0310	0.0990	
	06/22/94	0.0226	0.0040	0.0003	0.0024	0.0283
	09/19/94	0.0640	0.0055	0.0008	0.0068	0.0570
	01/17/95	0.3910	0.0082	0.0290	0.2040	0.0530
MW-5	09/01/92	ND	ND	ND	ND	
	04/28/93	0.0140	0.0330	0.0040	0.0260	
	09/13/93	0.0090	0.0210	0.0060	0.0370	
	11/30/93	0.0011	ND	ND	ND	
	02/11/94	0.0060	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0312
	09/19/94	0.0030	ND	0.0004	0.0011	0.0412
	01/17/95	0.0028	ND	ND	ND	0.0550

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-6	09/01/92	FREE PRODUCT FOUND IN WELL				
	04/28/93	0.4270	0.0360	0.0940	0.2300	
	09/13/93	0.5070	0.0780	0.1350	0.3190	
	11/29/93	0.0082	0.0020	0.0022	0.0019	
	02/11/94	0.0230	0.0170	0.0150	0.0720	
	06/22/94	0.2340	0.0016	0.0337	0.0015	0.0338
	09/19/94	0.0560	0.0047	0.0028	0.0067	0.0418
	01/20/95	0.0009	0.0050	0.0014	0.0054	0.0195
MW-7	09/01/92	WELL NOT FOUND				
	04/28/93	WELL NOT FOUND				
	09/14/93	0.6470	0.1970	0.1680	0.6910	
	11/29/93	3.5410	0.9710	0.4190	1.9180	
	02/11/94	14.3990	2.0620	0.6300	4.1270	
	06/22/94	4.0830	0.6950	0.3010	1.7170	0.0670
	09/19/94	4.0860	0.2550	0.2110	0.5650	0.0890
	01/20/95	0.1760	0.1250	0.0500	0.4330	0.0680
MW-8	09/02/92	0.0140	0.0090	0.0190	0.0680	
	04/28/93	ND	ND	ND	ND	
	09/14/93	0.0180	0.0210	0.0340	0.0510	
	11/29/93	0.0034	ND	0.0004	0.0010	
	02/11/94	0.0010	0.0007	0.0003	0.0010	
	06/14/94	0.0018	0.0004	ND	ND	0.0470
	09/19/94	0.0045	0.0005	ND	0.0003	0.0650
	01/17/95	0.0022	0.0004	ND	0.0003	0.0750
MW-9	09/02/92	0.0100	0.0210	0.0300	0.0180	
	04/28/93	ND	ND	ND	ND	
	09/14/93	0.0070	0.0150	0.0240	0.0060	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	0.0156
	09/19/94	0.2210	0.0005	ND	ND	0.0510
	01/17/95	0.0483	ND	ND	ND	0.0469
MW-10	09/02/92	0.0010	0.0050	0.0010	0.0090	
	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	0.0003
	01/17/95	ND	ND	ND	ND	0.0003

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-11	09/02/92	ND	ND	ND	ND	
	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
MW-12	08/31/92	FREE PRODUCT FOUND IN WELL				
	04/28/93	0.4820	0.0890	0.1800	0.5170	
	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/17/95	FREE PRODUCT FOUND IN WELL				
MW-13	09/02/92	0.0020	0.0020	ND	0.0030	
	04/28/93	ND	ND	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	0.0005	ND
	01/20/95	ND	ND	ND	0.0002	ND
MW-14	09/02/92	FREE PRODUCT FOUND IN WELL				
	04/28/93	FREE PRODUCT FOUND IN WELL				
	09/14/93	FREE PRODUCT FOUND IN WELL				
	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
MW-15	09/03/92	0.0020	0.0020	ND	0.0030	
	04/28/93	ND	0.0280	ND	ND	
	09/14/93	ND	ND	ND	ND	
	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-16	09/02/92	0.0120	0.0060	0.0600	0.0130	
	04/28/93	ND	ND	0.0030	0.0050	
	09/14/93	ND	ND	0.0090	0.0060	
	11/29/93	ND	ND	0.0024	0.0006	
	02/11/94	ND	ND	0.0050	0.0010	
	06/14/94	ND	ND	0.0027	0.0003	ND
	09/19/94	ND	0.0003	0.0006	0.0009	ND
	01/20/95	ND	ND	0.0005	0.0005	0.0003
MW-17	08/31/93	28.4530	23.6820	2.1450	13.4610	
	04/28/93	23.4240	22.1730	1.9670	13.1610	
	09/14/93	19.6240	19.3470	2.6870	12.4810	
	11/29/93	21.2720	5.2850	1.0630	8.3570	
	02/11/94	61.5850	25.4200	1.6580	12.7870	
	06/22/94	21.6100	15.5510	0.8480	7.7600	0.0900
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
MW-18	09/01/92	0.0470	0.0100	0.0140	0.1710	
	04/28/93	0.2230	0.0190	0.0130	0.5030	
	09/13/93	0.2670	0.1350	0.0670	0.3450	
	11/30/93	0.1400	0.0088	0.0153	0.1330	
	02/11/94	0.3610	0.0090	0.0250	0.2450	
	06/22/94	0.0020	ND	ND	ND	0.0335
	09/19/94	0.4090	0.0042	0.0375	0.2406	0.0470
	01/17/95	0.0920	0.0032	0.0131	0.0957	0.0433
MW-19	09/02/92	0.0220	0.0150	0.3190	0.8940	
	04/28/93	0.0450	0.0050	0.1180	0.6230	
	09/13/93	0.0610	0.0240	0.1650	0.7190	
	11/30/93	0.0245	0.0118	0.2580	0.6582	
	02/11/94	0.0580	0.0200	0.5450	1.4580	
	06/22/94	0.0058	0.0069	0.0112	0.0491	0.0246
	09/19/94	0.0620	0.0040	0.1960	0.4992	0.0433
	01/17/95	0.0083	0.0037	0.1460	0.3364	0.0159
MW-20	09/01/92	ND	ND	ND	ND	
	04/28/93	0.0030	0.0030	0.0320	0.3250	
	09/13/93	ND	ND	ND	0.0340	
	11/30/93	0.0277	0.0165	0.1300	0.5551	
	02/11/94	0.0380	0.0220	0.0840	0.3500	
	06/22/94	0.0104	0.0111	0.0122	0.0207	0.1090
	09/19/94	0.0245	0.0176	0.0100	0.0327	0.1120
	01/17/95	0.0065	0.0173	0.0211	0.0600	0.1090

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
Concentrations in mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZE	XYLENES	MTBE
MW-21	09/01/92	ND	ND	ND	ND	
	04/28/93	0.0330	ND	ND	ND	
	09/13/93	0.0090	ND	ND	ND	
	11/30/93	0.0171	0.0046	0.0050	0.0023	
	02/11/94	0.0820	0.0090	0.0260	0.0060	
	06/22/94	0.0173	0.0025	0.0019	0.0019	0.0451
	09/19/94	0.0014	0.0032	0.0009	0.0008	0.0418
	01/17/95	0.0510	0.0080	0.0410	0.0663	0.0392
MW-22	09/01/92	ND	ND	ND	ND	
	04/28/93	ND	ND	ND	ND	
	09/13/93	ND	ND	ND	ND	
	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0392
	09/19/94	ND	ND	ND	ND	0.0358
	01/17/95	ND	ND	ND	ND	0.0408
MW-23	02/11/94	198.5730	190.8910	7.2400	48.8370	
	06/22/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	DRY				
MW-25	11/29/93	2.3730	0.0112	0.1330	0.3454	
	02/11/94	7.3150	0.0700	0.1150	0.5880	
	06/22/94	NOT SAMPLED				
	09/20/94	5.0500	0.0377	0.0930	0.7360	0.1090
	01/20/95	NOT SAMPLED				
EFFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0021	0.0016	0.0013	0.0038	
	02/11/94	BLOWER SHUT DOWN				
	06/22/94	BLOWER SHUT DOWN				
	09/20/94	0.0093	0.0009	ND	0.0007	ND
	01/20/95	NOT SAMPLED				
INFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0015	0.0009	0.0017	0.0023	
	02/11/94	0.0010	ND	ND	0.0040	
	06/22/94	PUMP SHUT DOWN				
	09/20/94	9.6700	0.7540	0.1580	0.6330	0.0500
	01/20/95	NOT SAMPLED				
NMWQCC	12/24/87	0.0100	0.7500	0.7500	0.6200	0.1000

ND - NON-DETECT

810\QMRTABL3

APPENDIX

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -11	DATE ANALYZED:	Jan 23, 1995
SAMPLE NUMBER:	0594	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	105	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -11, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -15	DATE ANALYZED:	Jan 23, 1995
SAMPLE NUMBER:	0595	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	93	80 - 120%
	BROMOFLUOROBENZENE	94	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -15, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -10	DATE ANALYZED:	Jan 23, 1995
SAMPLE NUMBER:	0596	ANALYSIS:	BTEX/MTBE

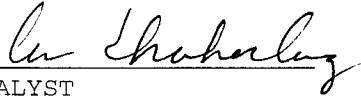
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

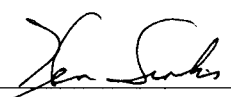
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	89	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -10, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -9	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0597	ANALYSIS:	BTEX/MTBE

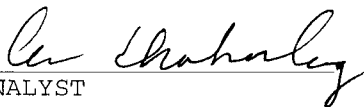
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	46.9	0.2
BENZENE	48.3	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

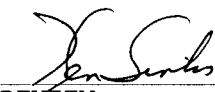
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	94	80 - 120%
	BROMOFLUOROBENZENE	102	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -9, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -8	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0598	ANALYSIS:	BTEX/MTBE

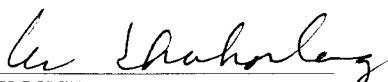
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	75	0.2
BENZENE	2.2	0.2
TOLUENE	0.4	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.3	0.2
O-XYLENE	ND	0.2

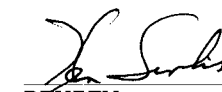
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	97	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -8, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -20	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0599	ANALYSIS:	BTEX/MTBE

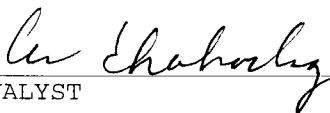
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	109	0.2
BENZENE	6.5	0.2
TOLUENE	17.3	0.3
ETHYLBENZENE	21.1	0.2
P,M-XYLENE	59	0.2
O-XYLENE	1.1	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	104	80 - 120%
	BROMOFLUOROBENZENE	105	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -20, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -21	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0600	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	39.2	0.2
BENZENE	51	0.2
TOLUENE	8.0	0.3
ETHYLBENZENE	41.0	0.2
P,M-XYLENE	56	0.2
O-XYLENE	10.3	0.2

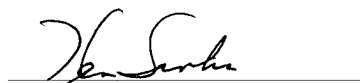
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	104	80 - 120%
	BROMOFLUOROBENZENE	93	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -21, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -22	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0601	ANALYSIS:	BTEX/MTBE

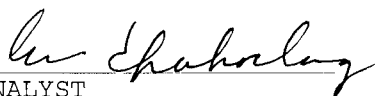
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	40.8	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.2
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	100	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -22, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -19	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0602	ANALYSIS:	BTEX/MTBE

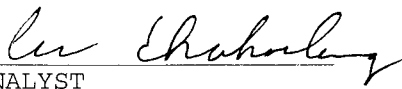
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	15.9	0.2
BENZENE	8.3	0.2
TOLUENE	3.7	0.3
ETHYLBENZENE	146	0.2
P, M-XYLENE	335	0.2
O-XYLENE	1.4	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	104	80 - 120%
	BROMOFLUOROBENZENE	102	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -19, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -18	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0603	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	43.3	0.2
BENZENE	92	0.2
TOLUENE	3.2	0.3
ETHYLBENZENE	13.1	0.2
P,M-XYLENE	95	0.2
O-XYLENE	0.7	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	104	80 - 120%
	BROMOFLUOROBENZENE	103	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -18, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -5	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0604	ANALYSIS:	BTEX/MTBE

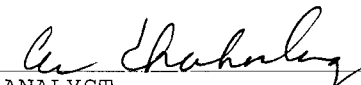
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	55	0.2
BENZENE	2.8	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.2
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	94	80 - 120%
	BROMOFLUOROBENZENE	101	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -5, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-17-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-17-95
SAMPLE ID:	MW -4	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0605	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	53	0.2
BENZENE	391	0.2
TOLUENE	8.2	0.3
ETHYLBENZENE	29.0	0.2
P,M-XYLENE	204	0.2
O-XYLENE	5.0	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	103	80 - 120%
	BROMOFLUOROBENZENE	108	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -4, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -13	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0606	ANALYSIS:	BTEX/MTBE

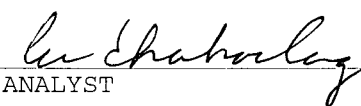
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.2	0.2
O-XYLENE	ND	0.2

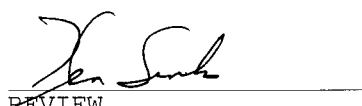
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -13, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -16	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0607	ANALYSIS:	BTEX/MTBE

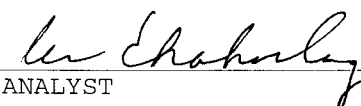
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	0.3	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	0.5	0.2
P,M-XYLENE	0.5	0.3
O-XYLENE	ND	0.2

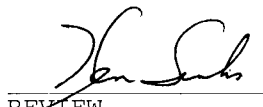
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	100	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -16, Thriftway-Refinery site #810.


ANALYST


REVIEW

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710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Office (505) 632-3365
Fax (505) 632-9850



EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -3	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0608	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	111	0.2
BENZENE	26.2	0.3
TOLUENE	1.0	0.3
ETHYLBENZENE	4.8	0.2
P,M-XYLENE	4.2	0.3
O-XYLENE	ND	0.2

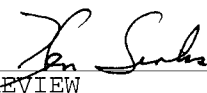
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -3, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -6	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0609	ANALYSIS:	BTEX/MTBE

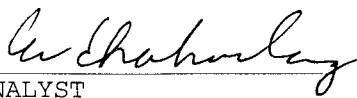
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	19.5	1.0
BENZENE	0.9	1.5
TOLUENE	5.0	1.5
ETHYLBENZENE	1.4	1.0
P,M-XYLENE	4.6	1.5
O-XYLENE	0.8	1.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	99	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -6, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -7	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0610	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	68	10.0
BENZENE	176	15.0
TOLUENE	125	15.0
ETHYLBENZENE	50	10.0
P,M-XYLENE	381	15.0
O-XYLENE	52	10.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	104	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -7, Thriftway-Refinery site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -2	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0611	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	83	2.0
BENZENE	1581	3.0
TOLUENE	15.9	3.0
ETHYLBENZENE	395	2.0
P,M-XYLENE	521	3.0
O-XYLENE	10.7	2.0

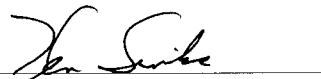
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW -2, Thriftway-Refinery site #810.


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QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-13-95
PROJECT LOCATION:	Bernalillo, NM	DATE RECEIVED:	01-13-95
SAMPLE ID:	MW -3	DATE ANALYZED:	Jan 23, 1995
SAMPLE NUMBER:	0613	ANALYSIS:	BTEX/MTBE

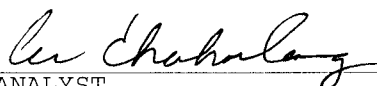
SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	ND	19.3	0.2	96	-
BENZENE	ND	19.2	0.3	96	39 - 150%
TOLUENE	0.6	19.2	0.2	93	46 - 148%
ETHYLBENZENE	ND	19.4	0.2	97	32 - 160%
P,M-XYLENE	ND	39.0	0.3	97	-
O-XYLENE	0.4	19.1	0.2	94	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Jan 23, 1995
SAMPLE NUMBER:	0123AM.00	ANALYSIS:	BTEX/MTBE

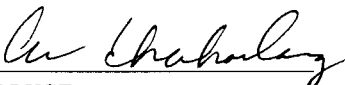
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

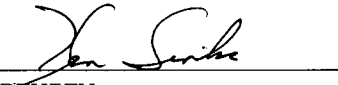
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

CLIENT: NA
CLIENT NUMBER: NA
PHASE/TASK: NA
PROJECT LOCATION: Bloomfield, NM
SAMPLE ID: MW -22
SAMPLE NUMBER: 0601

SAMPLE MATRIX: WATER
PRESERVATIVE: HgCl2
DATE SAMPLED: 01-17-95
DATE RECEIVED: 01-17-95
DATE ANALYZED: Jan 24, 1995
ANALYSIS: BTEX/MTBE

SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	41	61	0.2	100	-
BENZENE	ND	17.7	0.2	89	39 - 150%
TOLUENE	ND	17.7	0.3	88	46 - 148%
ETHYLBENZENE	ND	17.7	0.2	88	32 - 160%
P,M-XYLENE	ND	35.4	0.2	88	-
O-XYLENE	ND	17.6	0.2	88	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Jan 24, 1995
SAMPLE NUMBER:	0124AM.00	ANALYSIS:	BTEX/MTBE

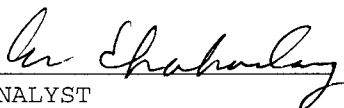
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.2
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	98	80 - 120%
	BROMOFLUOROBENZENE	93	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	01-20-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	01-20-95
SAMPLE ID:	MW -16	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0607	ANALYSIS:	BTEX/MTBE

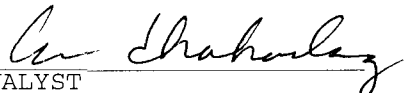
SPIKE CONCENTRATION (ug/L) = 20.0

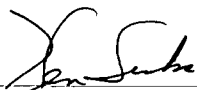
ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	0.3	20.6	0.2	101	-
BENZENE	ND	20.0	0.3	100	39 - 150%
TOLUENE	ND	20.2	0.3	101	46 - 148%
ETHYLBENZENE	0.5	21.3	0.2	104	32 - 160%
P,M-XYLENE	0.5	42.2	0.3	104	-
O-XYLENE	ND	20.2	0.2	101	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Jan 25, 1995
SAMPLE NUMBER:	0125AM.00	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P, M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

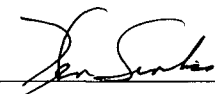
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

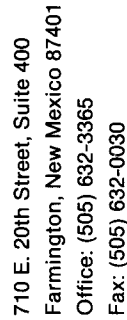
QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	109	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

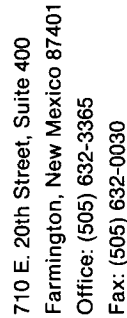


CHAIN OF CUSTODY RECORD

11143

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS						Remarks
Sample No./ID		Date	Time	Tape No.	Lab No.	Matrix	No. Cont.	BTEX	MTBE	
Thi. & Way Refinery 210				Bloomfield						
Sampler: (Signature) <i>Jack Conway</i>										
MW 11	1/17/95	10:30		0594	Water		3	✓	✓	
MW 15	1/17/95	11:50		0595	Water		3	✓	✓	
MW 10	1/17/95	12:10		0596	Water		3	✓	✓	
MW 1	1/17/95	12:53		0597	Water		3	✓	✓	
MW 2	1/17/95	13:17		0598	Water		3	✓	✓	
MW 20	1/17/95	13:45		0599	Water		3	✓	✓	
MW 1	1/17/95	14:02		0600	Water		3	✓	✓	
MW 22	1/17/95	14:25		0601	Water		3	✓	✓	
MW 14	1/17/95	15:00		0602	Water		3	✓	✓	
MW 13	1/17/95	15:25		0603	Water		3	✓	✓	
Relinquished by: (Signature) <i>Jack Conway</i>		Date	Time	Received by: (Signature) <i>Joe Schuchman</i>						
		1/17/95	16:40	Received by: (Signature)						
Relinquished by: (Signature)				Received by: (Signature)						
Relinquished by: (Signature)				Received by: (Signature)						



11145

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location		ANALYSIS/PARAMETERS										
Sample No./ID	Date	Time	Tape No.	Lab No.	Matrix	No. Cont.	DTLX	MTBE					Remarks
11. Jeffrey / Jeffrey 710													
Sampler: (Signature) Jack L. Devey													
NW 13	1/20/95	1037		0606	Water	2	✓	✓					
NW 16	1/20/95	1103		0607	Water	2	✓	✓					
NW 3	1/20/95	1210		0608	Water	2	✓	✓					
NW 6	1/20/95	1245		0609	Water	2	✓	✓					
NW 7	1/20/95	1304		0610	Water	2	✓	✓					
NW 2	1/20/95	1535		0611	Water	2	✓	✓					
Relinquished by: (Signature) Jack L. Devey	Date 1/20/95	Time 1405	Received by: (Signature) C. Schuchman										
Relinquished by: (Signature)			Received by: (Signature)										
Relinquished by: (Signature)			Received by: (Signature)										

