

3R - 155

REPORTS

DATE:

2001

Certified Mail: #7001 1940 0003 1553 8513

February 28, 2002

RECEIVED

MAR 04 2002

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 2001 Pit Project Annual Groundwater Report

Dear Mr. Olson:

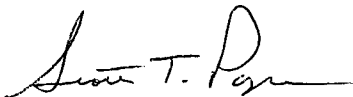
In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 reports (Volumes IA, IB, II and III), reports by land type. Volume IA and IB contain annual reports for sites found on Federal land. Volume II contains Non Federal sites and Volume III contains sites on Navajo land. Of the 30 reports submitted EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this report and will be submitted by the required deadline of April 1, 2002.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,



Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7001 1940 0003 1553 8506**
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7001 1940 0003 1553 8520**

SAN JUAN BASIN PIT CLOSURES

San Juan Basin, New Mexico

**El Paso Field Services
Pit Project Groundwater Sites
Annual Report
Volume IB-Federal Sites**

RECEIVED

MAR 04 2002

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

March 2002

Prepared for

**El Paso Field Services
Farmington, New Mexico**



MWH

MONTGOMERY WATSON HARZA

EL PASO FIELD SERVICES ANNUAL GROUNDWATER REPORT

FEDERAL SITES VOLUME IB

TABLE OF CONTENTS

Site Map

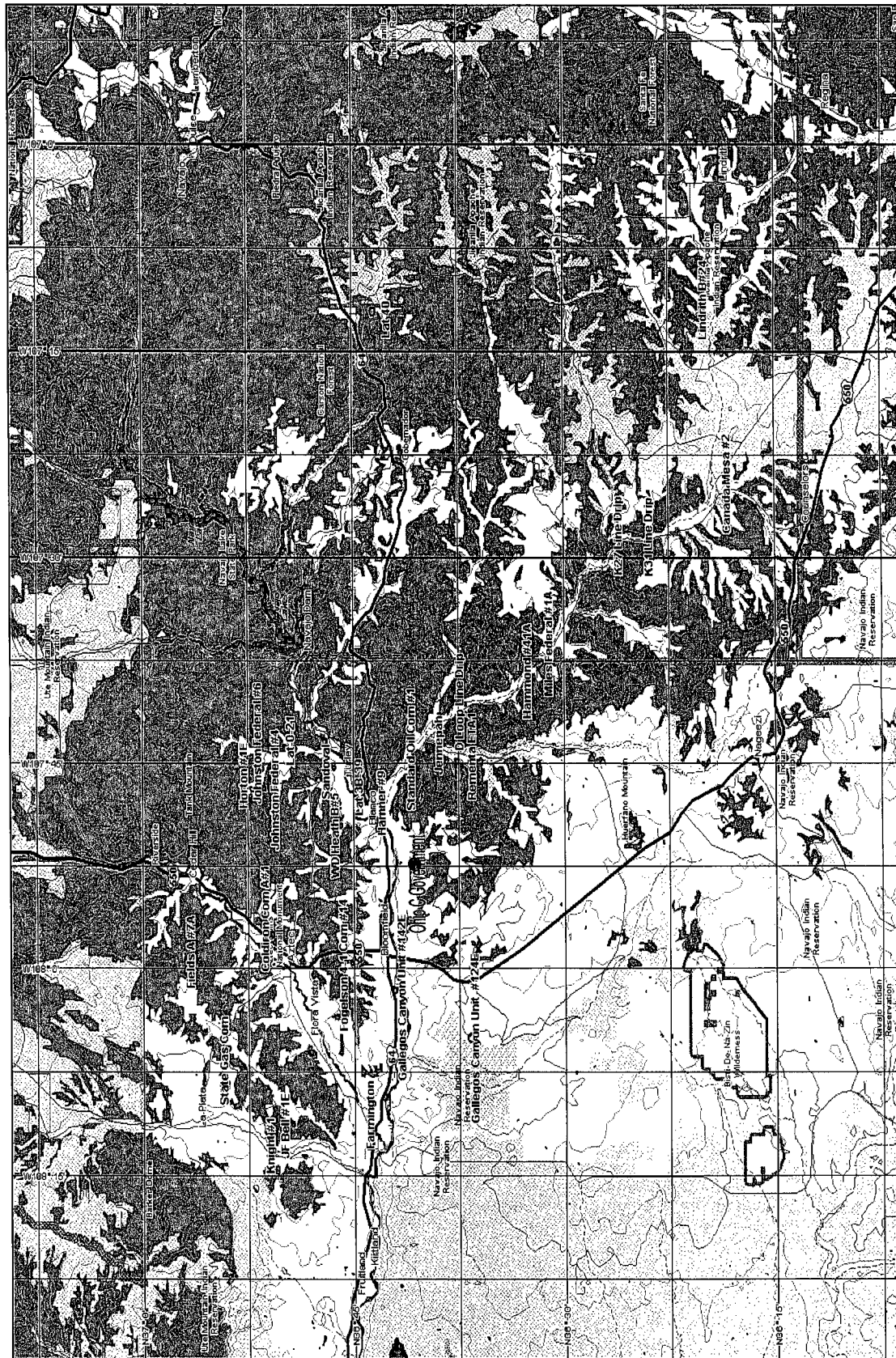
METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
97213	Hamner #9	29N	09W	20	A
72890	Ohio C Government #3	28N	11W	26	P
LD169	D Loop Line Drip	28N	08W	33	I
LD174	LAT LD 40	28N	04W	13	H
89894	Hammond #41A	27N	08W	25	O
94810	Miles Fed 1A	26N	07W	5	F
LD072	K27 LD072	25N	06W	4	E
87640	Canada Mesa #2	24N	06W	24	I



MWH

MONTGOMERY WATSON HARZA

Groundwater Site Map



3-D TopoQuest Copyright © 1999 DeLorme Vermont, ME 04066 1 mile Scale: 1:600,000 Detail 3.4 Dots: WGS84

EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT

Canada Mesa #2

Meter Code 87640

SITE DETAILS

Legals Twn: 24N Rng: 06W Sec: 24 UNIT: I
NMOCD Haz Ranking 40 Land Type: Federal Operator: Merrion Oil & Gas Corp

PREVIOUS ACTIVITIES

Site Assessment: Jul-94 Excavation Aug-94 Soil Boring: Aug-95 Monitor Well: Aug-95
Geoprobe: NA Additional MWs: Oct-00 Downgradient MW's: NA Replace MW: NA
PSH Removal Initiated: Aug-97 ORC Nutrient Injection NA Re-Excavation: NA
Quarterly Initiated Aug-95 Annual Initiated Nov-00 Quarterly Resumed: NA

2001 ACTIVITY

Phase Separated Hydrocarbons (PSH) Removal - PSH removal continued through 2001 at MW-1. Annual monitoring of MW-2 and MW-3 was scheduled, but was not performed due to an oversight during a change in subcontractors.

Specific gravity - Sample taken on September 4, 2001 at MW-1. Results 0.736 g/cc.

SUMMARY TABLES AND GRAPHS

PSH Removal is presented in the Product Removal Table and Table 1 BTEX . Copies of the laboratory data sheets and the associated quality assurance/quality control data are presented as Attachment 1. Included is a BTEX Data graph for MW-1 and a Free Product Recovery graph for MW-1.

SITE MAP

Site Maps with BTEX concentrations and groundwater elevations are attached.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No drilling activities were performed at this site for 2001.

DISPOSITION OF GENERATED WASTES

All PSH was removed and disposed of at the EPFS Kutz Separator, Bloomfield, NM.

EPFS GROUNDWATER PITS

2001 ANNUAL GROUNDWATER REPORT

Canada Mesa #2

Meter Code: 87640

ISOCONCENTRATION MAPS

No isoconcentration maps were generated at this site.

CONCLUSIONS

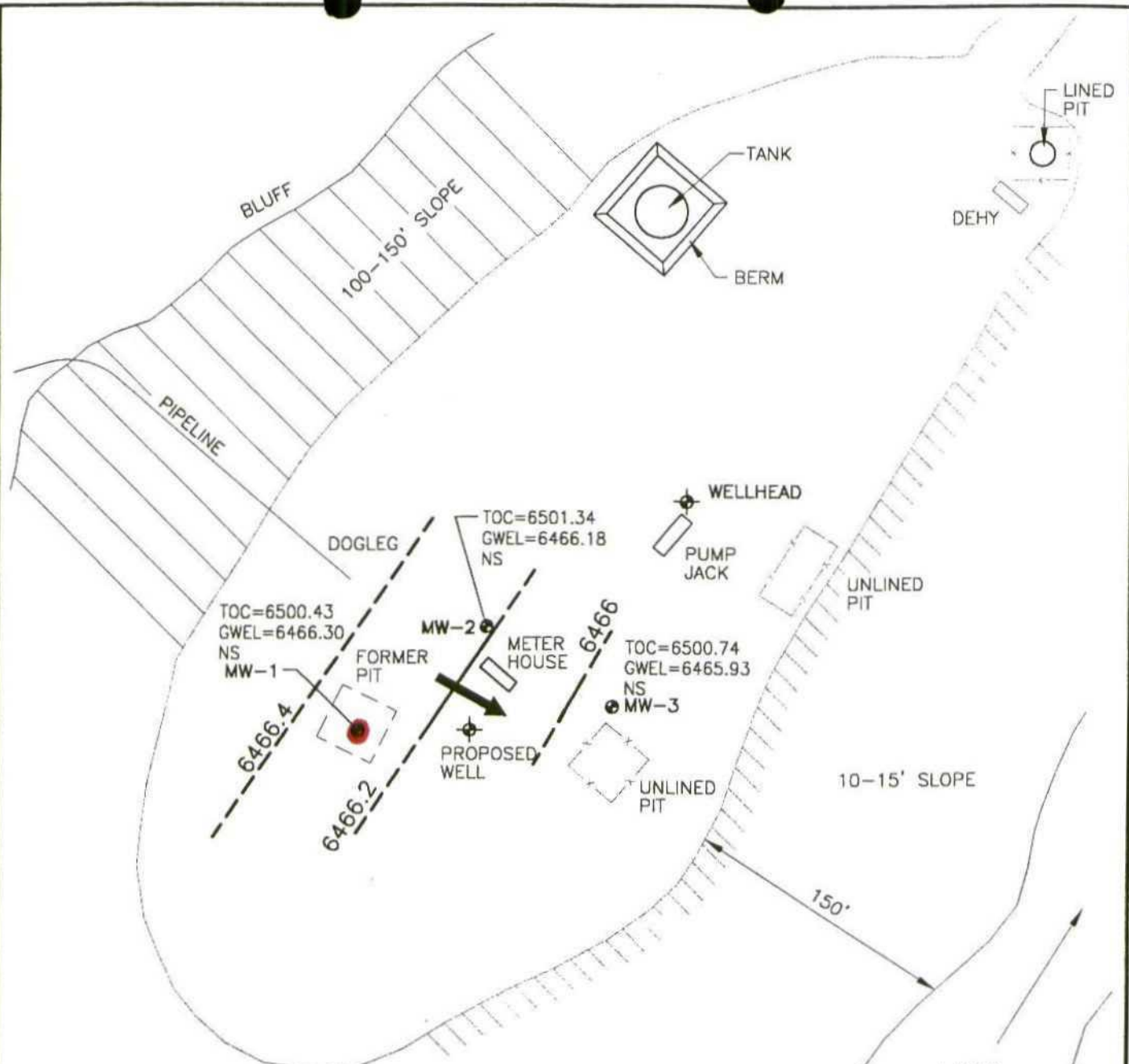
Free phase hydrocarbon recovery at MW-1 resulted in the recovery of 8.18 gallons of free product. A cumulative of 34.91 gallons of free product has xx been recovered at this site to date.

Free product thicknesses in MW-1 were reduced to non-detectable in December 2001.

Monitoring wells MW-2 and MW-3 were last sampled in November 2000 with benzene concentrations of 3200 ppb and 880 ppb, respectively. MW-3 was installed adjacent to the Operator's pit. The Operator at this site is Merrion Oil and Gas Corporation. Monitoring wells MW-2 and MW-3 were not sampled in 2001.

RECOMMENDATIONS

- > Downgradient extent remains undefined - EPFS recommends the installation of one additional downgradient monitoring well immediately downgradient of the former EPFS pit.
- > EPFS will obtain an initial sample in the first quarter of 2002 and continue sampling MW-2 and MW-3 on an annual basis, scheduled for November 2002.
- > Product removal will continue as needed in MW-1, once free product is removed, MW-1 will be sampled annually until NMWQCC standards are attained, this well will subsequently be sampled quarterly for closure.



LEGEND

- MW-1
 Approximate Monitoring Well Location and Number
- Fence Line
- 6566
 Potentiometric Surface (Assumed Where Dashed)
- Direction of Groundwater Flow
- GWEL
 Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise)
- TOC
 Top of Casing

NOT TO SCALE

CANADA MESA #2, METER 87640
SEPTEMBER, 2001

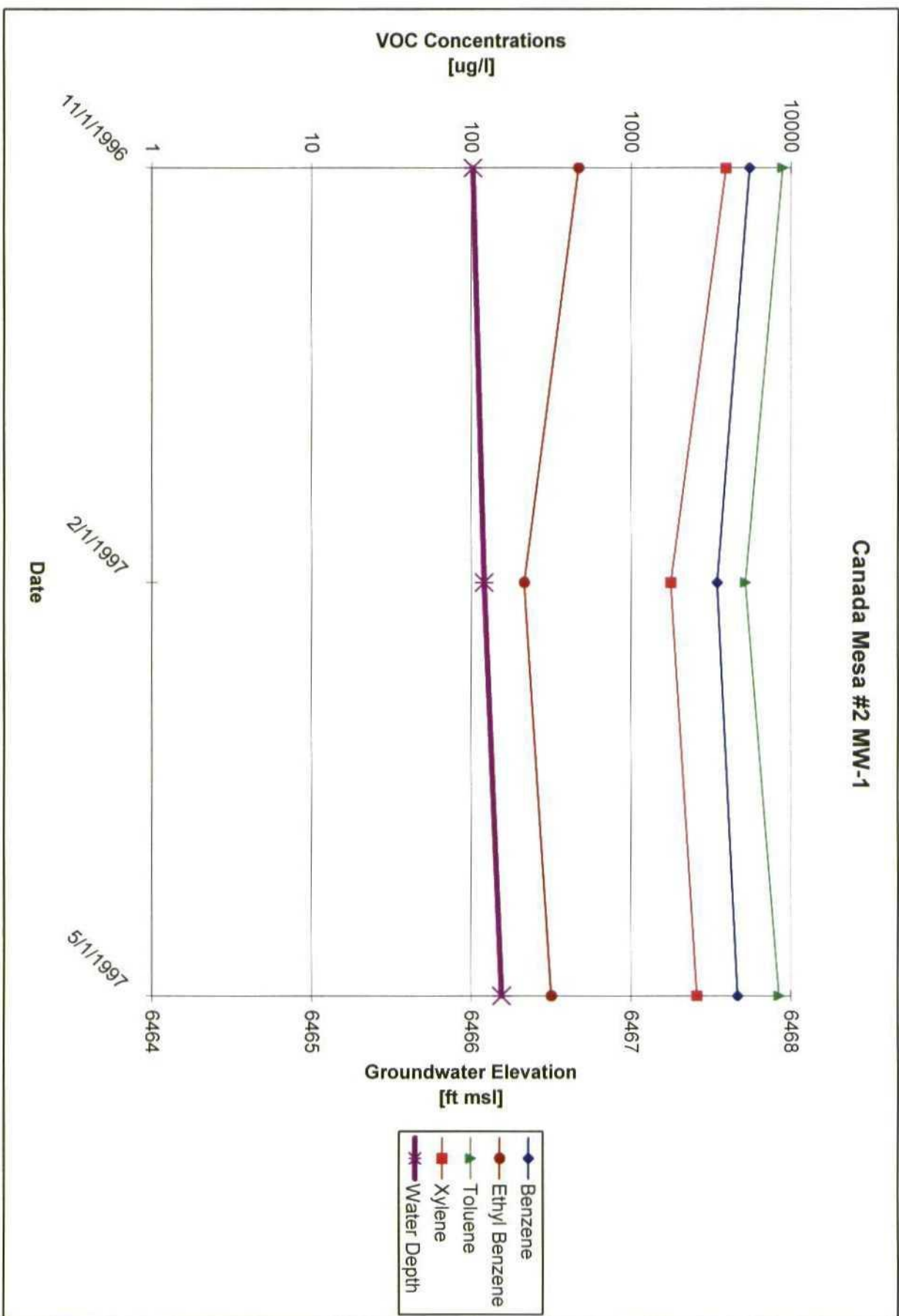
GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1

Table 1 BTEX
Canada Mesa #2

Sample #	Meter Line #	Site Name	Sample Date	MW#	Benzene (µg/l)	Ethyl Benzene (µg/l)	Toluene (µg/l)	Total Xylenes (µg/l)	Depth to Water (Feet)	Groundwater Elevation (feet)
KN10109	72556	Knight #1	9/11/2001	2	110	17	0.5	200	27.60	5484.36
KN10109	72556	Knight #1	9/11/2001	4	140	9.6	0.5	110	28.48	5484.75
KN10109	72556	Knight #1	9/11/2001	5	0.5	0.5	0.5	0.6	25.94	5484.42

Canada Mesa #2 MW-1

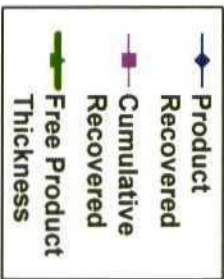
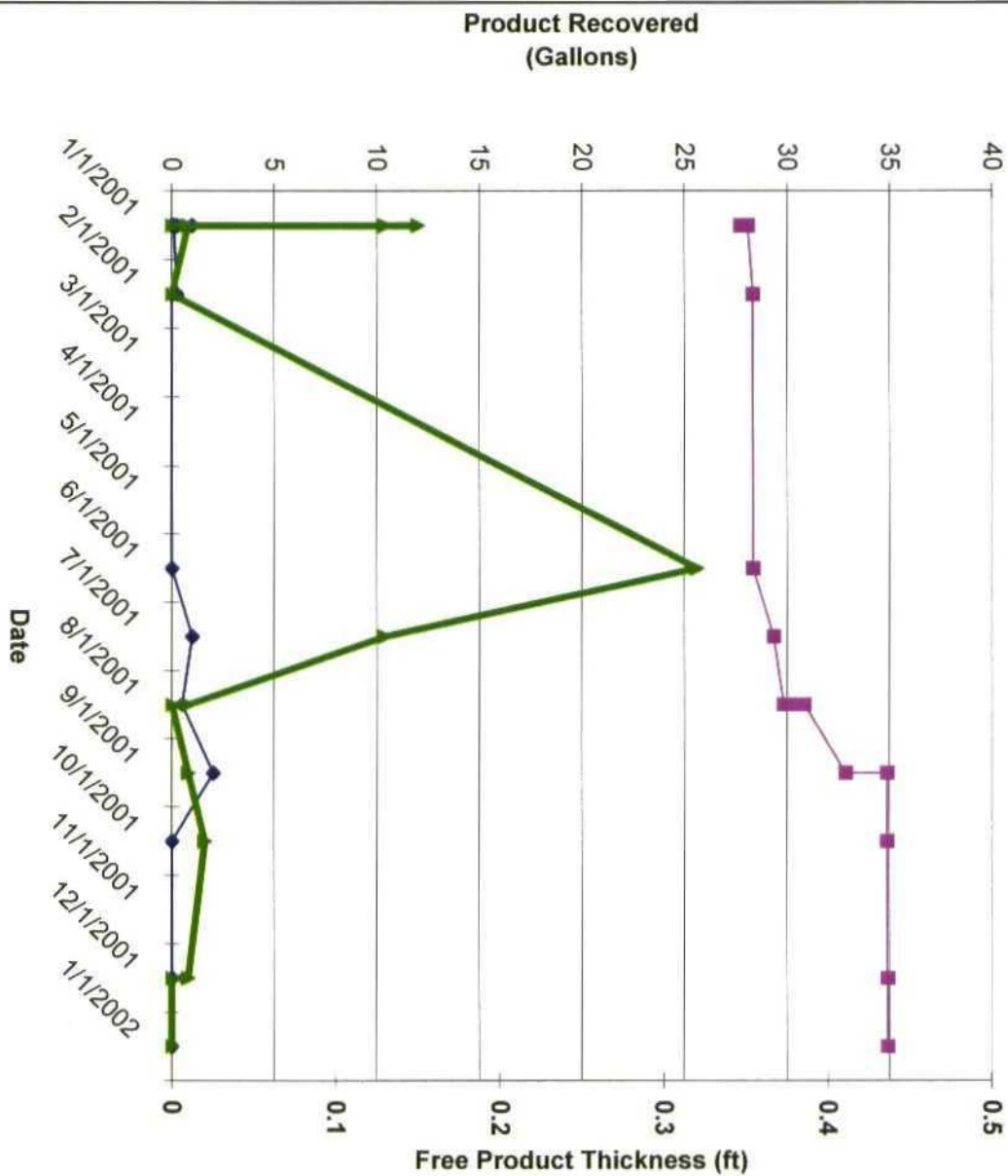


Product Removal Table
Canada Mesa #2

Meter Line	Site Name	MW#	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Volume Removed (Gallons)	Cumulative Total (Gallons)
87640	Canada Mesa #2	1	1/3/2001	33.83	33.96	0.13	1	27.73
87640	Canada Mesa #2	1	1/15/2001	33.78	33.93	0.15	0	27.73
87640	Canada Mesa #2	1	1/22/2001	33.81	33.81	0	0.25	27.98
87640	Canada Mesa #2	1	1/30/2001	33.82	33.83	0.01	0.1	28.08
87640	Canada Mesa #2	1	2/13/2001	33.8	33.8	0	0.25	28.33
87640	Canada Mesa #2	1	2/20/2001	33.81	33.81	0	0	28.33
87640	Canada Mesa #2	1	2/28/2001	33.81	33.81	0	0	28.33
87640	Canada Mesa #2	1	6/4/2001	33.81	34.13	0.32	0	28.33
87640	Canada Mesa #2	1	7/3/2001	33.96	34.09	0.13	1	29.33
87640	Canada Mesa #2	1	8/6/2001	34.07	34.08	0.01	0.5	29.83
87640	Canada Mesa #2	1	8/20/2001	34.09	34.10	0.01	0.5	30.33
87640	Canada Mesa #2	1	8/31/2001	34.17	34.17	0	0.5	30.83
87640	Canada Mesa #2	1	9/14/2001	34.13	34.14	0.01	2.02	32.85
87640	Canada Mesa #2	1	9/26/2001	34.14	34.15	0.01	2.02	34.87
87640	Canada Mesa #2	1	10/2/2001	34.15	34.17	0.02	0	34.87
87640	Canada Mesa #2	1	10/10/2001	34.16	34.18	0.02	0	34.87
87640	Canada Mesa #2	1	12/5/2001	34.25	34.26	0.01	0.02	34.89
87640	Canada Mesa #2	1	12/14/2001	34.27	34.27	0.01	0.02	34.91
87640	Canada Mesa #2	1	12/21/2001	34.24	34.24	0	0	34.91
87640	Canada Mesa #2	1	12/28/2001	34.22	34.22	0	0	34.91
87640	Canada Mesa #2	1	1/2/2002	34.23	34.23	0	0	34.91

No product removed from MW-2 and MW-3 for 2001

Free Product Recovery
Canada Mesa #2 MW-1



ATTACHMENT 1

2001 GROUNDWATER ANALYTICAL

amec

Project No.: 5/2000/21

Task: 3

Date: 1-2-02

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Detected with water/oil probe

Signature: Chris L. May Date: 1-2-02

amec

Project No.: 15/7060/21

Task: 3

Date: 12-28-01

[illegible]

Comments: Slender, green, NO Dyeing, D-Food is safe, no dyeing

Date: 12-28-01

amec

Signature: Chris A. May Date: 12-21-01

amec

Project No.: 1517000121

Task: 3

Date: 12/14/01

Date: 12/14/01

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Signature: _____ Date: _____

amec

Project No.: 00000000

Task: _____

Date: 11-11-09

Site Name: CANE L. 10/2/94 (87640)

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments: AD-halter Recovered in MW

Signature: Aug 6, 2012

Date: 12-5-01



Project No. 6/69

Cost Code

Date 10-10-01

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments

Signature: Philo M.

Date: 6-12-07

Date 10-2-01 *2*

Date 9-26-61

Date 9-14-01 *Lu*

Date 8-31-01

Date 8-26-01

Date 8-6-61



Project No. 6169

Cost Code _____

Date 6-4-01

Site Name CANADA mesa #2 (87640)

[illegible]

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments

Signature *R. A. Symon*

Date 6-7-01

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA # 2
Date:	2/28/01
MW:	01
Depth to Product:	0
Depth to Water:	33.81
Product Thickness:	0
Volume Removed:	0
Comments:	Nothing Recovered in Skimmer

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA #2
Date:	2-20-01
MW:	01
Depth to Product:	
Depth to Water:	33.81
Product Thickness:	
Volume Removed:	0
Comments:	Skimmer empty Nothing Recovered

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA #2
Date:	02/13/01
MW:	01
Depth to Product:	
Depth to Water:	33.40
Product Thickness:	0
Volume Removed:	.25 gal.
Comments:	no water recovered

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA #2
Date:	01-30-01
MW:	01
Depth to Product:	33.82
Depth to Water:	33.83
Product Thickness:	.01
Volume Removed:	.10
Comments:	Recovered 90% water

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA #2
Date:	01-15-01
MW:	01
Depth to Product:	33.78
Depth to Water:	33.93
Product Thickness:	.15
Volume Removed:	0

Comments:

Recovered Approximately
100% water. suspect
Faulty VALVE. Replaced
Filter inside Skimmer

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA #2
Date:	01-22-01
MW:	01
Depth to Product:	
Depth to Water:	33.81
Product Thickness:	0
Volume Removed:	.25
Comments:	No water Recovered no product Detected by probe. Replaced VALVE

Product Recovery

Meter/Line #:	87640
Location/Line Name:	CANADA MESA #2
Date:	01-03-01
MW:	1
Depth to Product:	33.83
Depth to Water:	33.96
Product Thickness:	.13
Volume Removed:	1 gal.
Comments:	No water recovered



Date: 9/11/01
Client: Golden Environmental Management
Lab ID: 0301W03833 - 3843
Project: G169

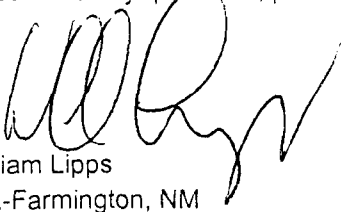
Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.


William Lipps
IML-Farmington, NM

Analytical Report

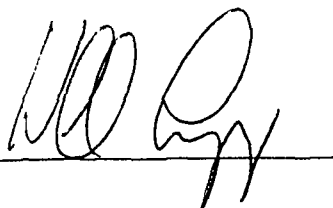
Page 1 of 1

Client: Golden Environmental Management
Project: G169
IML Set: 0301W03833

Date Received: 09/06/01
Date Reported: 09/11/01

Lab Id	Sample Id	Date Sampled	Specific Gravity g/cc
0301W03833	LIN-0109-MW1	09/04/01	0.811
0301W03834	CAN-0109-MW1	09/04/01	0.736
0301W03835	GAL-0109-MW1	09/04/01	0.833
0301W03836	JFB-0109-MW3	09/04/01	0.773
0301W03837	072-0109-MW2	09/04/01	0.751
0301W03838	MIL-0109-MW1	09/04/01	0.754

Reviewed By:



Analytical Report

Client: Golden Environmental Management
Project: G169
IML Set: 0301W03839

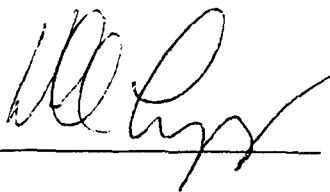
Page 1 of 1

Date Received: 09/06/01

Date Reported: 09/11/01

Lab Id	Sample Id	Date Sampled	Specific Gravity g/cc
0301W03839	JOH-0109-MW1	09/05/01	0.750
0301W03839D	JOH-0109-MW1	09/05/01	0.751
0301W03840	JON-0109-MW1	09/05/01	0.757
0301W03841	KNI-0109-MW1	09/05/01	0.790
0301W03842	STA-0109-MW3	09/05/01	0.741
0301W03843	JEN-0109-MW1	09/05/01	0.761

Reviewed By:



PLI Accession #: 2

CHAIN OF CUSTODY

DATE: 9-6-01 PAGE: 1 OF 2

Pinnacle Laboratories Inc.

PROJECT MANAGER: Lisa Wilson

COMPANY: GOLDEN ENVIRONMENTAL MGMT.
ADDRESS: 906 S. JAMES BLVD STE D
FARMINGTON NM 87401
PHONE: (505) 566-9114
FAX: (505) 566-9120
BILL TO: SCOTT POPE
COMPANY: E-Paso Field Services
ADDRESS: 601 Rally Ave
Farmington NM 87401

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) □ MTBE □ TMB □ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB □ / DBCP □	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides / PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals
JOH-0100-MW1	9-5-01	0700	Liq.HC			X		X	X	3	5	3	9															
JOH-0100-MW1	9-5-01	1000	Liq.HC			X		X	X	3	5	4	0															
RNE-0100-MW1	9-5-01	1100	Liq.HC			X		X	X	3	5	4	1															
STA-0100-MW3	9-5-01	1200	Liq.HC			X		X	X	3	5	4	2															
JEN-0100-MW1	9-5-01	1300	Liq.HC			X		X	X	3	5	4	3															

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY:		RECEIVED BY:	
PROJ NO: 6167	(RUSH) ☐ 12hr ☐ 48hr ☐ 72hr ☐ 1 WEEK	(NORMAL) ☒		Signature: [Signature]	Time: 0711	Signature: [Signature]	Time: [Blank]
PROJ NAME: E-PASO Field Services	CERTIFICATION REQUIRED: ☐ INM ☐ SDWA ☐ OTHER			Printed Name: Lisa Wilson	Date: 9-6-01	Printed Name: [Blank]	Date: [Blank]
P.O. NO.	METHANOL PRESERVATION ☐			Company: Pinnacle Laboratories Inc.		Company: [Blank]	
SHIPPED VIA:	COMMENTS: FIXED FEE ☐			See reverse side (Force Majeure)			
SAMPLE RECEIPT				RECEIVED BY: (LAB)		RECEIVED BY: (LAB)	
NO. CONTAINERS	JOHNSTON FIELD #5 (89232)			Signature: [Signature]	Time: 9:10	Signature: [Signature]	Time: [Blank]
CUSTODY SEALS	JOHNSTON FIELD #4 (70174)			Printed Name: [Blank]	Date: 9/6/01	Printed Name: [Blank]	Date: [Blank]
RECEIVED INTACT	KNIGHT #1 (72556)						
BLUE ICE/CE	STATE GAS CO. N#1 (71669)						
	JENNEPAT #1 (71916)						

SHADED AREAS ARE FOR LAB USE ONLY. PLEASE FILL THIS FORM IN COMPLETELY.

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 1-6-01 PAGE: 1 OF 1

PLI Accession #:

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: <u>LIST WINN</u>		ANALYSIS REQUEST		RELINQUISHED BY:		RELINQUISHED BY:	
COMPANY: <u>GOLDEN Environmental Mgmt.</u>		DATE: <u>7-4-01</u>		Signature: <u>Chris Adams</u>		Signature: _____	
ADDRESS: <u>906 San Juan Blvd. Suite D</u>		TIME: <u>11:00</u>		Time: _____		Time: _____	
PHONE: <u>505-566-9116</u>		MATRIX: <u>LC</u>		Printed Name: <u>Chris Adams</u>		Printed Name: _____	
FAX: <u>505-566-9120</u>		LAB ID: <u>87410</u>		Date: <u>9-6-01</u>		Date: _____	
BILL TO: <u>SCOTT POPE</u>				Company: _____		Company: _____	
COMPANY: <u>El Paso Field Services</u>				See reverse side (Force Majeure)		RECEIVED BY: (LAB)	
ADDRESS: <u>604 Kelly Ave</u>				Signature: <u>Chris Adams</u>		Signature: _____	
RECEIVED INTACT				Printed Name: <u>Chris Adams</u>		Printed Name: _____	
CUSTOMY SEALS				Date: <u>9/6/01</u>		Date: _____	
NO. CONTAINERS				Company: <u>El Paso</u>		Company: _____	
BLUE ICE/ICE				Comments: <u>FIXED FEE</u>		Comments: _____	

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY:		RELINQUISHED BY:	
PROJ. NO.: <u>6169</u>		(RUSH) ☐ 24hr ☐ 48hr ☐ 1week ☐ (NORMAL) ☒		Signature: _____		Signature: _____	
PROJ. NAME: <u>El Paso Environmental</u>		CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER		Time: _____		Time: _____	
P.O. NO.: _____		METHANOL PRESERVATION ☐		Printed Name: _____		Printed Name: _____	
SHIPPED VIA: _____		COMMENTS: <u>FIXED FEE</u>		Company: _____		Company: _____	
SAMPLE RECEIPT		LABORATORY USE ONLY		See reverse side (Force Majeure)		RECEIVED BY: (LAB)	
NO. CONTAINERS		LABORATORY USE ONLY		Signature: _____		Signature: _____	
CUSTOMY SEALS		LABORATORY USE ONLY		Printed Name: _____		Printed Name: _____	
RECEIVED INTACT		LABORATORY USE ONLY		Date: _____		Date: _____	
BLUE ICE/ICE		LABORATORY USE ONLY		Company: _____		Company: _____	

PROJECT MANAGER: <u>LIST WINN</u>		ANALYSIS REQUEST		RELINQUISHED BY:		RELINQUISHED BY:	
COMPANY: <u>GOLDEN Environmental Mgmt.</u>		DATE: <u>7-4-01</u>		Signature: <u>Chris Adams</u>		Signature: _____	
ADDRESS: <u>906 San Juan Blvd. Suite D</u>		TIME: <u>11:00</u>		Time: _____		Time: _____	
PHONE: <u>505-566-9116</u>		MATRIX: <u>LC</u>		Printed Name: <u>Chris Adams</u>		Printed Name: _____	
FAX: <u>505-566-9120</u>		LAB ID: <u>87410</u>		Date: <u>9-6-01</u>		Date: _____	
BILL TO: <u>SCOTT POPE</u>				Company: _____		Company: _____	
COMPANY: <u>El Paso Field Services</u>				See reverse side (Force Majeure)		RECEIVED BY: (LAB)	
ADDRESS: <u>604 Kelly Ave</u>				Signature: <u>Chris Adams</u>		Signature: _____	
RECEIVED INTACT				Printed Name: <u>Chris Adams</u>		Printed Name: _____	
CUSTOMY SEALS				Date: <u>9/6/01</u>		Date: _____	
NO. CONTAINERS				Company: <u>El Paso</u>		Company: _____	
BLUE ICE/ICE				Comments: <u>FIXED FEE</u>		Comments: _____	