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April 11, 2005
Job No. 3057.01

Mr. Phillip Ostler
55 North Venice Blvd., Suite 503
Venice, California 90291-4142

Subject: **1st Quarter 2005 Monitoring Report**
Fern Café, 606 Main Street, Ferndale, California
LOP # 12378

Dear Mr. Ostler:

This report presents the results of the 1st Quarter 2005 monitoring and sampling event performed at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. The work was performed in accordance with directives from the Humboldt County Department of Health and Human Services Division of Environmental Health (HCDHHS-DEH).

Monitoring Well Sampling

On March 16, 2005, groundwater samples were collected from the monitoring wells (wells) MW-1 and MW-3 at the subject site. Monitoring wells MW-2, and MW-4 through MW-6 were not sampled during this event due to consistent analytical results below laboratory detection limits and verbal approval from Mr. Mark Verhey of the HCDHHS-DEH. The approximate well locations and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured and each well was checked for the presence of free product using an oil/water interface probe. No free product was detected during this monitoring event. To produce representative samples, the wells were then purged of approximately three well casing volumes using a submersible pump. In addition, indicator parameters including the temperature, pH, and conductivity were measured during purging and recorded on the attached Groundwater Field Sampling Forms, Appendix A. The water levels in each well were allowed to sufficiently recover prior to sample collection. Groundwater samples were collected using a separate disposable bailer for each well and transferred to the appropriate containers supplied by the laboratory. The groundwater samples were labeled, stored on ice, and transported under Chain-of-Custody documentation to Alpha Analytical Laboratories (Alpha) of Ukiah, California for chemical analysis. Purge groundwater generated during the sampling of the wells was stored onsite in 55-gallon DOT approved drums, pending disposal.

Water Level Measurements

Monitoring well top-of-casing (TOC) elevations, depths to groundwater, calculated water level elevations, and the calculated groundwater flow direction and gradient for March 16, 2005 are tabulated on Table 1. Elevations are expressed in feet relative to mean sea level (msl). Depths are expressed in feet and gradients are expressed in feet per foot. Historical groundwater flow direction and gradient data is presented in Appendix B.

Table 1: Groundwater Flow Direction and Gradient

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient (i)
03/16/05	MW-1	50.92	6.42	44.50	Northerly i = 0.03
	MW-2	50.79	7.40	43.39	
	MW-3	51.00	7.16	43.84	
	MW-4	50.66	6.40	44.26	
	MW-5	51.08	6.65	44.43	
	MW-6	50.75	5.80	44.95	

Groundwater elevation contours for the March 16, 2005 sampling event are shown on Plate 2.

Laboratory Analytical Results

Groundwater samples collected from monitoring wells MW-1 and MW-3 were analyzed for total petroleum hydrocarbons (TPH) as gasoline and TPH as diesel using EPA Test Method 8260B / 8015, respectively. In addition, the volatile organic compounds: benzene, toluene, ethyl benzene, xylenes (BTEX) and the five oxygenated fuel additives, including methyl tert-butyl ether (MtBE), were analyzed using EPA Test Method 8260B. The laboratory analytical results of the groundwater samples collected during the March 16, 2005 sampling event are presented on page 3, Table 2 in units of micrograms per liter (µg/L). The laboratory report and Chain-of-Custody documentation are included in Appendix C. Historical groundwater analytical results are attached in Appendix D.

Table 2: Groundwater Analytical Results

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE*
		µg/L						
03/16/05	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-2	NS	NS	NS	NS	NS	NS	NS
	MW-3	**51**	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-4	NS	NS	NS	NS	NS	NS	NS
	MW-5	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS

< = Samples are below the indicated laboratory detection limit.
* = Additional 8260B analytes were not detected above the reported laboratory detection limit.
NS = Not sampled.

Discussion

The most recent laboratory analytical results are generally consistent with historical trends. TPH as gasoline was detected in the sample collected from MW-3 at a concentration of 51 µg/L. The additional analytes were not detected at or above the laboratory detection limits. The sample collected from MW-1 was below laboratory detection limits for all of the analytes tested. A Time vs. Concentration Graph for MW-3 is enclosed in Appendix E.

The March 2005 sampling event represents four consecutive sampling events subsequent to the remediation excavation activities performed in December 2003 . We are currently preparing to implement the scope of work outlined in our *Work Plan / Post Remediation Investigation* report dated February 16, 2005.

We appreciate the opportunity to be of service to you and trust this report provides the information you require at this time. If you have any questions, or need any additional information, please feel free to contact us at (707) 575-8622 or www.transtechconsultants.com.

Sincerely,
TRANS TECH CONSULTANTS

Brian R. Hasik
Staff Geologist

REGISTERED GEOLOGIST
LEE S. HURVITZ
No 7573
Exp. 05/31/05
GEOLOGIST
STATE OF CALIFORNIA

Lee S. Hurvitz, PG 7573
Professional Geologist

QMR_3057_01_041105

Attachments:
- Plate 1, Site Location Map
- Plate 2, Site Plan / Groundwater Elevation Contour Map
- Appendix A, Groundwater Field Sampling Forms
- Appendix B, Historical Groundwater Flow Directions and Gradients
- Appendix C, Alpha Analytical Laboratories Report dated March 31, 2005
- Appendix D, Historical Groundwater Analytical Results
- Appendix E, Time vs. Concentration Graph for MW-3
- Distribution List

TRANS TECH CONSULTANTS
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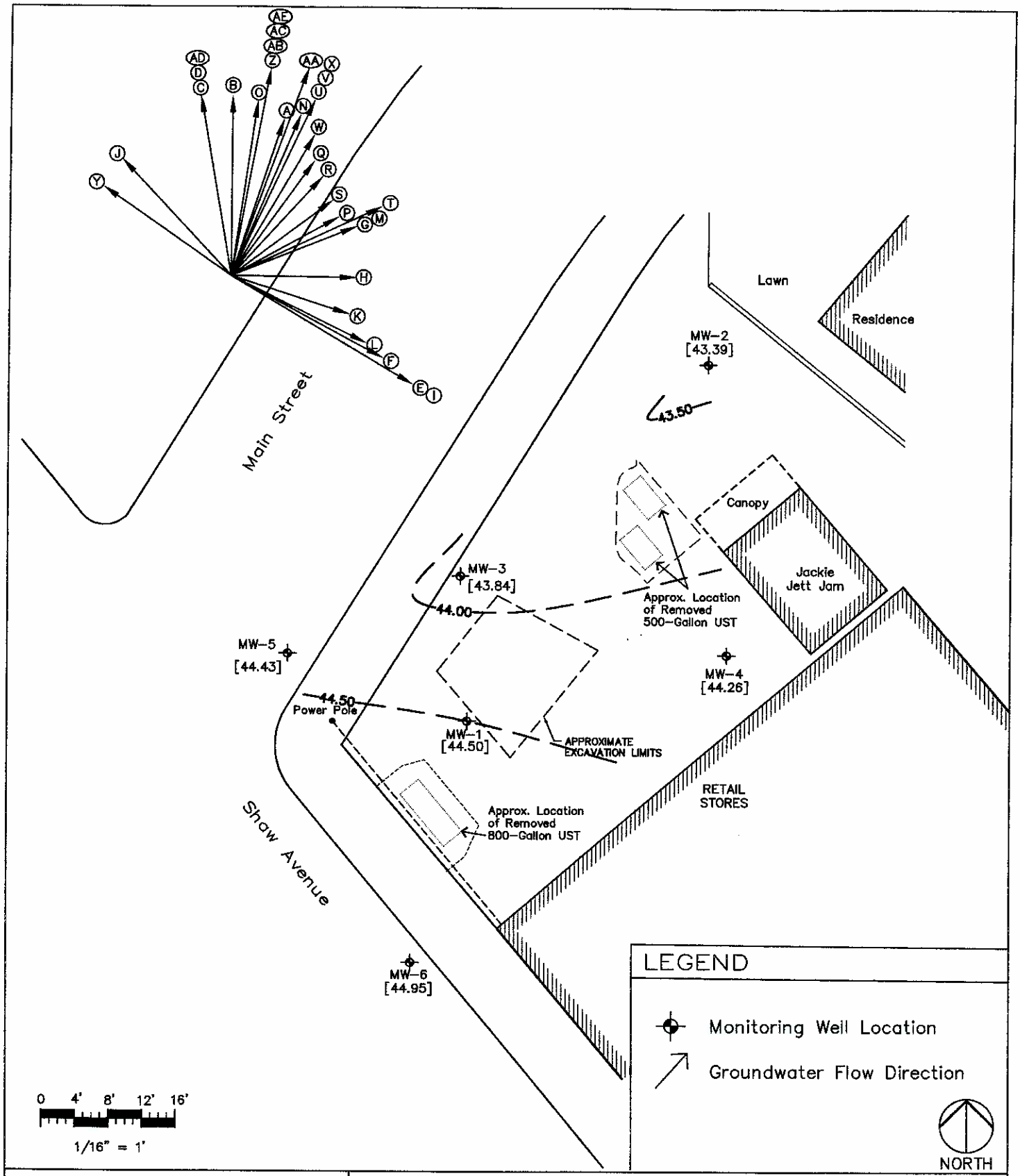
WINDSOR, CA 95492
PHONE: 707-575-8622 FAX: 707-837-7334

SITE LOCATION MAP
FERN CAFE
606 MAIN STREET
FERNDALE, CALIFORNIA

PLATE: 1

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3057.01.03 SLM	LSH	3057.01.03	A-212		8/25/03



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PHONE: 707-575-8622 FAX: 707-837-7334

SITE PLAN/GROUNDWATER ELEVATION CONTOUR MAP FOR 3/16/05
FERN CAFE
606 MAIN STREET
FERNDALE, CALIFORNIA

PLATE: 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3057.01 GWFP	BRH	3057.01	A-719		4/4/05

SHEET: 1 OF 2

GROUNDWATER FLOW LEGEND

Estimated Groundwater Flow Direction → (A)

Gradient Contour (Interval = 0.5 ft) - - - - - -

Identifier Tag	Date	Est. Flow Direction	Gradient Slope
A	8/24/95	N18°E	i = 0.022
B	9/25/95	NORTH	i = 0.065
C	10/24/95	N10°W	i = 0.034
D	12/4/95	N10°W	i = 0.011
E	12/21/95	S59°E	i = 0.018
F	1/26/96	S62°E	i = 0.008
G	2/26/96	N68E	i = 0.008
H	3/25/96	N89°E	i = 0.047
I	4/21/96	S59°E	i = 0.032
J	5/28/96	N42°W	i = 0.045
K	7/10/96	S72°E	i = 0.014
L	7/17/96	S64°E	i = 0.028
M	7/8/98	N69°E	i = 0.015
N	9/29/98	N23°E	i = 0.019
O	12/30/99	N8°E	i = 0.014
P	9/7/00	N61°E	i = 0.037
Q	12/19/00	N35E	i = 0.012
R	3/27/01	N42°E	i = 0.011
S	7/26/01	N53°E	i = 0.011
T	10/16/01	N65°E	i = 0.03
U	1/15/02	N25°E	i = 0.02
V	4/23/02	N25°E	i = 0.01
W	7/23/02	N30°E	i = 0.01
Y	12/2/02	N25°E	i = 0.03
X	3/27/03	N55°W	i = 0.03
Z	5/16/03	N10°E	i = 0.03
AA	9/12/03	N20°E	i = 0.03
AB	3/4/04	N10°E	i = 0.02
AC	7/2/04	N10°E	i = 0.02
AD	10/29/04	N10°W	i = 0.03
AE	03/16/05	NORTHERLY	i = 0.03

MW-1 Monitoring Well Location
[XX.XX] Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

TRANS TECH CONSULTANTS
930 SHILOH RD., BLDG 44, SUITE J
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PHONE: 707-575-8622 FAX: 707-837-7334

SITE PLAN/GROUNDWATER ELEVATION CONTOUR MAP FOR 3/16/05
FERN CAFE
606 MAIN STREET
FERNDALE, CALIFORNIA

PLATE: 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	3057.01 GWFP	LSH	3057.01	A-719		4/4/05

SHEET: 2 OF 2

APPENDIX A

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3057.01 Fern Cafe		**Well Number:** MW-1
Project Location: 606 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 14.75 **Well Depth from TOC (AP):** NA
Date: March 16, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik BH	**Product Thickness in inches:** Ø	
	Water Level from TOC: 6.42	**Time:** 8:12
Notes: ODOR ??	**Water Level pre-purge:** 6.42	**Time:** 8:15
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.33 gallons in one well volume
TD WL Dia. Inches

4.00 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
8:17	1	6.43	14.3	80		425.4	L
8:17	2	6.38	14.5	55		423.7	L
8:18	3	6.35	14.7	36		432.8	L
8:19	4	6.35	14.9	15		447.8	L
8:20	5	6.37	15.0	4		443.0	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 6.50 **Time:** 9:05

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 3 **Soil:** Ø **Other:** Ø

Bring Drum

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 3057.01 Fern Cafe		**Well Number:** MW-3
Project Location: 606 Main Street Ferndale, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 14.70 **Well Depth from TOC (AP):** NA
Date: March 16, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** Ø	
	Water Level from TOC: 7.24	**Time:** 8:14
Notes: Slight odor MW-2 → 7.40 @ 8:50A MW-4 → 6.40 @ 8:51A MW-6 → 5.80 @ 8:48A MW-5 → 6.65 @ 8:49A	**Water Level pre-purge:** 7.16	**Time:** 8:35
	Well Type: ☒ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.21 gallons in one well volume
TD WL Dia. Inches

3.62 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
8:40	1	6.34	15.2	-38		543.1	L
8:41	2	6.29	15.1	-25		552.4	L
8:42	3	6.30	15.2	-38		570.0	L
8:43	4	6.27	15.4	-54		577.8	L
8:44	5	6.27	15.5	-58		566.7	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 7.24 **Time:** 9:10

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 3 **Soil:** Ø **Other:** Ø

APPENDIX B

Appendix B - Historical Groundwater Flow Direction and Gradient

Sample Date	Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
12/19/00	MW-1	50.92	5.91	45.01	N35°E i = 0.012
	MW-2	50.79	6.38	44.41	
	MW-3	51.00	5.93	45.07	
	MW-4	50.66	5.51	45.15	
03/27/01	MW-1	50.92	6.02	44.90	N42°E i = 0.011
	MW-2	50.79	6.41	44.38	
	MW-3	51.00	6.20	44.80	
	MW-4	50.66	6.07	44.59	
07/26/01	MW-1	50.92	6.28	44.64	N 53° E i = 0.011
	MW-2	50.79	7.35	43.44	
	MW-3	51.00	6.05	44.95	
	MW-4	50.66	6.35	44.31	
10/16/01	MW-1	50.92	6.66	44.26	N 65° E i = 0.03
	MW-2	50.79	7.72	43.07	
	MW-3	51.00	6.38	44.62	
	MW-4	50.66	6.81	43.85	
01/15/02	MW-1	50.92	5.69	45.23	N 25°E i = 0.02
	MW-2	50.79	5.91	44.88	
	MW-3	51.00	6.18	44.82	
	MW-4	50.66	5.76	44.90	

Appendix B - continued

Sample Date	Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
04/23/02	MW-1	50.92	6.22	44.70	N 25°E i = 0.01
	MW-2	50.79	6.78	44.01	
	MW-3	51.00	6.41	44.59	
	MW-4	50.66	6.21	44.45	
07/23/02	MW-1	50.92	6.67	44.25	N 30°E i = 0.01
	MW-2	50.79	7.89	42.90	
	MW-3	51.00	7.04	43.96	
	MW-4	50.66	6.82	43.84	
12/04/02	MW-1	50.92	7.40	43.52	N 25°E i = 0.03
	MW-2	50.79	7.81	42.98	
	MW-3	51.00	6.93	44.07	
	MW-4	50.66	6.74	43.92	
	MW-5	51.08	6.68	44.40	
	MW-6	50.75	6.04	44.71	
03/37/03	MW-1	50.92	4.98	45.94	N 55°W i = 0.03
	MW-2	50.79	5.40	45.39	
	MW-3	51.00	5.03	45.97	
	MW-4	50.66	4.58	46.08	
	MW-5	51.08	6.09	44.99	
	MW-6	50.75	5.15	45.60	

Appendix B - continued

Sample Date	Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
05/16/03	MW-1	50.92	5.88	45.04	N 10°E i = 0.03
	MW-2	50.79	7.11	43.68	
	MW-3	51.00	6.29	44.71	
	MW-4	50.66	6.11	44.55	
	MW-5	51.08	6.56	44.52	
	MW-6	50.75	5.66	45.09	
09/12/03	MW-1	50.92	6.87	44.05	N 20°E i = 0.03
	MW-2	50.79	7.88	42.91	
	MW-3	51.00	7.02	43.98	
	MW-4	50.66	6.70	43.96	
	MW-5	51.08	6.88	44.20	
	MW-6	50.75	6.16	44.59	
03/04/04	MW-1	50.92	5.69	45.23	N10°E i = 0.02
	MW-2	50.79	6.49	44.30	
	MW-3	51.00	6.00	45.00	
	MW-4	50.66	5.60	45.06	
	MW-5	51.08	6.02	45.06	
	MW-6	50.75	5.40	45.35	
07/02/04	MW-1	50.92	6.85	44.07	N10°E i = 0.02
	MW-2	50.79	7.85	42.94	
	MW-3	51.00	7.26	43.74	
	MW-4	50.66	6.90	43.76	
	MW-5	51.08	7.03	44.05	
	MW-6	50.75	6.00	44.75	

Appendix B - continued

Sample Date	Well ID	TOC Elevation	Water Level Depth	Water Level Elevation	Groundwater Flow Direction/Gradient
10/29/04	MW-1	50.92	6.02	44.90	N13°W i = 0.03
	MW-2	50.79	6.85	43.94	
	MW-3	51.00	6.73	44.27	
	MW-4	50.66	5.83	44.83	
	MW-5	51.08	6.70	44.38	
	MW-6	50.75	5.52	45.23	
03/16/05	MW-1	50.92	6.42	44.50	Northerly i = 0.03
	MW-2	50.79	7.40	43.39	
	MW-3	51.00	7.16	43.84	
	MW-4	50.66	6.40	44.26	
	MW-5	51.08	6.65	44.43	
	MW-6	50.75	5.80	44.95	

APPENDIX C

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

31 March 2005

Trans Tech Consultants
Attn: Bill Wiggins
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
RE: Fern Cafe
Work Order: A503567

Enclosed are the results of analyses for samples received by the laboratory on 03/17/05 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Jansen

Lisa E. Jansen For Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A503567-01	Water	03/16/05 09:05	03/17/05 15:10
MW-3	A503567-02	Water	03/16/05 09:10	03/17/05 15:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lisa Jansen

Lisa E. Jansen For Sheri L. Speaks
Project Manager

3/31/05

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-1 (A503567-01)			**Sample Type: Water**			**Sampled: 03/16/05 09:05**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC53018	03/30/05	03/31/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/25/05	"	ND "		50	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC53018*	*03/30/05*	*03/31/05*		*73.1 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52801*	*03/25/05*	*03/25/05*		*98.8 %*	*70-129*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AC52808	"	03/25/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*98.8 %*	*45-147*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*88.4 %*	*85-129*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*98.8 %*	*74-137*		
MW-3 (A503567-02)			**Sample Type: Water**			**Sampled: 03/16/05 09:10**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AC53018	03/30/05	03/31/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AC52801	03/25/05	03/25/05	"	**51 "**		**50**	
Surrogate: 1,4-Bromofluorobenzene	*8015DRO*	*AC53018*	*03/30/05*	*03/31/05*		*71.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AC52801*	*03/25/05*	*03/25/05*		*98.4 %*	*70-129*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lisa Jansen

Lisa E. Jansen For Sheri L. Speaks
Project Manager

3/31/05

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e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-3 (A503567-02)			**Sample Type: Water**			**Sampled: 03/16/05 09:10**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AC52808	"	03/25/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
Surrogate: Bromofluorobenzene	"	"	"	"		*96.8 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*87.2 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*98.4 %*	*74-137*		

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Lisa Jansen

Lisa E. Jansen For Sheri L. Speaks
Project Manager

3/31/05

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52801 - EPA 5030 Water GCMS										
Blank (AC52801-BLK1)				Prepared & Analyzed: 03/25/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*31.1*		"	*25.0*		*124*	*70-129*			
LCS (AC52801-BS1)				Prepared & Analyzed: 03/25/05						
TPH as Gasoline	190	50	ug/l	200		95.0	65-137			
Surrogate: Toluene-d8	*24.8*		"	*25.0*		*99.2*	*70-129*			
LCS Dup (AC52801-BSD1)				Prepared & Analyzed: 03/25/05						
TPH as Gasoline	176	50	ug/l	200		88.0	65-137	7.65	20	
Surrogate: Toluene-d8	*24.8*		"	*25.0*		*99.2*	*70-129*			
Matrix Spike (AC52801-MS1)		**Source: A503567-01**		Prepared & Analyzed: 03/25/05						
TPH as Gasoline	293	50	ug/l	200	ND	138	65-137			QM-05
Surrogate: Toluene-d8	*24.7*		"	*25.0*		*98.8*	*70-129*			
Batch AC53018 - EPA 3510B Water										
Blank (AC53018-BLK1)				Prepared & Analyzed: 03/30/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: 1,4-Bromofluorobenzene	*427*		"	*579*		*73.7*	*20-152*			
LCS (AC53018-BS1)				Prepared & Analyzed: 03/30/05						
TPH as Diesel	2080	50	ug/l	1960		106	52-136			
Surrogate: 1,4-Bromofluorobenzene	*456*		"	*579*		*78.8*	*20-152*			
LCS Dup (AC53018-BSD1)				Prepared & Analyzed: 03/30/05						
TPH as Diesel	2130	50	ug/l	1960		109	52-136	2.38	25	

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Project Manager

3/31/05

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Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC53018 - EPA 3510B Water										
LCS Dup (AC53018-BSD1)				Prepared & Analyzed: 03/30/05						
Surrogate: 1,4-Bromofluorobenzene	*474*		*"*	*579*		*81.9*	*20-152*			

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Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52808 - EPA 5030 Water GCMS										
Blank (AC52808-BLK1)				Prepared & Analyzed: 03/25/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
Surrogate: Bromofluorobenzene	*30.6*		"	*25.0*		*122*	*45-147*			
Surrogate: Dibromofluoromethane	*27.5*		"	*25.0*		*110*	*85-129*			
Surrogate: Toluene-d8	*31.1*		"	*25.0*		*124*	*74-137*			
LCS (AC52808-BS1)				Prepared & Analyzed: 03/25/05						
Benzene	10.0	0.30	ug/l	10.0		100	79-116			
Toluene	11.3	0.30	"	10.0		113	83-120			
Ethylbenzene	11.9	0.50	"	10.0		119	81-119			
Xylenes (total)	34.9	0.50	"	30.0		116	79-121			
Methyl tert-butyl ether	9.32	0.50	"	10.0		93.2	73-127			
Di-isopropyl ether	10.3	0.50	"	10.1		102	69-96			QL-03
Ethyl tert-butyl ether	9.83	0.50	"	10.2		96.4	76-117			
Tert-amyl methyl ether	9.92	0.50	"	10.3		96.3	80-122			
Tert-butyl alcohol	152	10	"	196		77.6	53-132			
Surrogate: Bromofluorobenzene	*27.6*		"	*25.0*		*110*	*45-147*			
Surrogate: Dibromofluoromethane	*22.1*		"	*25.0*		*88.4*	*85-129*			
Surrogate: Toluene-d8	*26.7*		"	*25.0*		*107*	*74-137*			

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
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Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC52808 - EPA 5030 Water GCMS										
LCS Dup (AC52808-BSD1)				Prepared & Analyzed: 03/25/05						
Benzene	10.1	0.30	ug/l	10.0		101	79-116	0.995	25	
Toluene	10.1	0.30	"	10.0		101	83-120	11.2	25	
Ethylbenzene	10.5	0.50	"	10.0		105	81-119	12.5	25	
Xylenes (total)	30.7	0.50	"	30.0		102	79-121	12.8	25	
Methyl tert-butyl ether	9.65	0.50	"	10.0		96.5	73-127	3.48	25	
Di-isopropyl ether	10.5	0.50	"	10.1		104	69-96	1.92	25	QL-03
Ethyl tert-butyl ether	9.80	0.50	"	10.2		96.1	76-117	0.306	25	
Tert-amyl methyl ether	9.90	0.50	"	10.3		96.1	80-122	0.202	25	
Tert-butyl alcohol	156	10	"	196		79.6	53-132	2.60	25	
Surrogate: Bromofluorobenzene	*23.4*		"	*25.0*		*93.6*	*45-147*			
Surrogate: Dibromofluoromethane	*21.7*		"	*25.0*		*86.8*	*85-129*			
Surrogate: Toluene-d8	*23.1*		"	*25.0*		*92.4*	*74-137*			
Matrix Spike (AC52808-MS1)		**Source: A503567-01**		Prepared & Analyzed: 03/25/05						
Benzene	4.21	0.30	ug/l	10.0	ND	42.1	63-144			QM-05
Toluene	4.17	0.30	"	10.0	ND	41.7	65-145			QM-05
Ethylbenzene	4.05	0.50	"	10.0	ND	40.5	57-155			QM-05
Xylenes (total)	11.8	0.50	"	30.0	ND	39.3	59-149			QM-05
Methyl tert-butyl ether	3.49	0.50	"	10.0	ND	34.9	62-156			QM-05
Di-isopropyl ether	3.67	0.50	"	10.1	ND	36.3	58-115			QM-05
Ethyl tert-butyl ether	3.40	0.50	"	10.2	ND	33.3	57-147			QM-05
Tert-amyl methyl ether	3.45	0.50	"	10.3	ND	33.5	53-153			QM-05
Tert-butyl alcohol	57.0	10	"	196	ND	29.1	41-147			QM-05
Surrogate: Bromofluorobenzene	*24.2*		"	*25.0*		*96.8*	*45-147*			
Surrogate: Dibromofluoromethane	*22.4*		"	*25.0*		*89.6*	*85-129*			
Surrogate: Toluene-d8	*23.8*		"	*25.0*		*95.2*	*74-137*			

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 03/31/05 16:30
Project No: 3057.01
Project ID: Fern Cafe

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A503567	03/17/2005 15:10	TRANSTEC	

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable .

QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

PQL Practical Quantitation Limit

WORK ORDER
CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 208 Mason Street, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 3/16/05 PAGE 1 OF 1

CLIENT'S NAME: Phillip Ostler	PROJECT MANAGER: Lee Hurvitz
STREET ADDRESS / CITY / STATE / ZIP	PHONE NUMBER
PROJECT NAME: Fern Café	FAX NUMBER
CONTRACT/PURCHASE ORDER/QUOTE NUMBER: 3057-01	SITE CONTACT
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM. [signature]	SAMPLED BY: Brian Hasik

ANALYSES: TPH-gas; TPH diesel; BTEX, 5 oxy

SAMPLE CONDITION ON RECEIPT:

COLD/ICED? 7.2

BUBBLES OR AIR SPACE?

WERE SAMPLES PRESERVED?

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE: LIQ	AIR	SOLID	COMP	GRAB	NO. OF CONTS.	TPH-gas	TPH diesel	BTEX, 5 oxy			EXPLAIN IRREGULARITIES BELOW
MW-1	3/16/05	9:05	A503565-1	X				X	5	X	X	X			
MW-3	3/16/05	9:10	2	X				X	5	X	X	X			

Geotracker
T0602300284

RELINQUISHED BY: (SIGNATURE) [signature]	RECEIVED BY: (SIGNATURE) [signature]	DATE 3/17/05	TIME 1320
RELINQUISHED BY: (SIGNATURE) [signature] 1510	RECEIVED BY: (SIGNATURE) [signature]	DATE 3/17/05	TIME 1510
RELINQUISHED BY: (SIGNATURE)	RECEIVED FOR LABORATORY BY:	SAMPLE CONTROL OFFICER	
METHOD OF SHIPMENT	AUTHORIZED BY:		

TURN AROUND TIME REQUESTED: Standard

SPECIAL INSTRUCTIONS

DRIVING TIME	SITE TIME	TOTAL TIME

SAMPLE DESPOSITION:

1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES: THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.)
2. SAMPLE TO BE RETURNED TO CLIENT? ☐ YES ☐ NO

HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.

APPENDIX D

Appendix D - Historical Groundwater Analytical Results

Sample Date	Well ID	TPH as Gas	B	T	E	X	Lead
		µg/L					
05/20/95	MW-1	240	1.9	ND	1.5	2.5	ND
	MW-2	250	6.7	0.64	2.4	1.6	6.54
	MW-3	ND	ND	ND	ND	ND	12.4
08/24/95	MW-1	ND	0.62	ND	ND	ND	24.2
	MW-2	ND	ND	ND	ND	ND	13.4
	MW-3	130	5.7	0.77	1.0	ND	5.92
12/04/95	MW-1	290	14	1.5	2.2	1.6	22
	MW-2	ND	ND	ND	ND	ND	4
	MW-3	280	11	1.4	4.5	1.0	8
02/26/96	MW-1	290	11	1.6	2.9	2.0	46
	MW-2	ND	ND	ND	ND	ND	11
	MW-3	260	12	1.6	3.6	1.2	6
05/28/96	MW-1	360	17	1.3	1.9	1.7	NA
	MW-2	ND	ND	ND	ND	ND	NA
	MW-3	230	10	ND	2.4	ND	NA
07/08/98	MW-1	ND	NA	0.50	1.0	ND	ND
	MW-2	ND	NA	ND	ND	ND	ND
	MW-3	120	NA	2.4	1.1	ND	ND
09/29/98	MW-1	84	NA	0.82	0.75	0.50	2.5
	MW-2	ND	NA	ND	ND	ND	ND
	MW-3	74	NA	0.64	0.74	ND	1.6
	MW-4	ND	NA	ND	ND	ND	ND

ND = Not detected at or above laboratory reporting limits.
NA = Not analyzed.

Appendix D - continued

Sample Date	Well ID	TPH as Gas	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
03/01/99	MW-1	**60**	ND	**1.5**	**0.72**	**0.73**	**2.1**	NA
	MW-2	ND	ND	ND	ND	ND	ND	NA
	MW-3	**430**	ND	**9.4**	**2.1**	**2.3**	**4.4**	NA
	MW-4	ND	ND	ND	ND	ND	ND	NA
12/30/99	MW-1	**130**	ND	ND	**2.3**	**2.6**	**2.1**	<100
	MW-2	ND	ND	ND	ND	ND	ND	<100
	MW-3	**810**	**180***	**7.1**	**3.1**	**3.1**	**7.0**	<100
	MW-4	ND	ND	ND	ND	ND	ND	<100
09/07/00	MW-1	**58**	ND	ND	ND	ND	**2.3**	<25
	MW-2	ND	ND	ND	ND	ND	ND	<25
	MW-3	**1,200**	**440***	**16**	**3.8**	**4.0**	**10**	<50
	MW-4	ND	ND	ND	ND	ND	ND	<25
12/19/00	MW-1	ND	ND	ND	ND	ND	ND	<50
	MW-2	ND	ND	ND	ND	ND	ND	<50
	MW-3	**700**	**230***	**7.8**	**1.1**	**1.3**	**4.0**	<50
	MW-4	ND	ND	ND	ND	ND	ND	<50
03/27/01	MW-1	**96**	ND	ND	ND	ND	ND	<25
	MW-2	ND	ND	ND	ND	ND	ND	<25
	MW-3	**860**	**180***	**13**	**1.3**	**2.5**	**7.2**	<25
	MW-4	ND	ND	ND	ND	ND	ND	<25
07/26/01	MW-1	<50	<50	**0.74**	<1.0	<1.0	<1.0	<1.0
	MW-2	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0
	MW-3	**520**	<50	**3.5**	**4.0**	**2.3**	**4.8**	<1.0
	MW-4	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0

Appendix D - continued

Sample Date	Well ID	TPH as Gas	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
10/16/01	MW-1	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0**
	MW-2	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0**
	MW-3	**330**	**98***	<1.0	<1.0	<1.0	<1.0	<1.0**
	MW-4	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0**
01/15/02	MW-1	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5**
	MW-2	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5**
	MW-3	**190**	**50**	**1.0**	<0.3	<0.5	<0.5	<0.5**
	MW-4	<50	<50	**0.57**	<0.3	<0.5	<0.5	<0.5**
04/23/02	MW-1	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5***
	MW-2	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5***
	MW-3	**210**	**53**	**0.90**	<0.5	<0.5	**0.55**	<0.5***
	MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5***
07/23/02	MW-1	<50	<50	**0.57**	<0.30	<0.50	<0.50	<0.50**
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-3	**250**	<50	**1.8**	<0.30	<0.50	<0.50	<0.50**
	MW-4	<50	<50	0.75	<0.30	<0.50	<0.50	<0.50**
12/04/02	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-3	**210**	**86**	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50**

Appendix D - continued

Sample Date	Well ID	TPH as Gas	TPH as Diesel	B	T	E	X	MtBE
		µg/L						
03/27/03	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-3	**160**	<50	**1.0**	<0.30	<0.50	<0.50	<0.50*
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
05/16/03	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-3	**100**	<50	**0.99**	<0.30	<0.50	<0.50	<0.50*
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50*
09/12/03	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-3	**250**	<50	**0.32**	<0.30	<0.50	<0.50	<0.50
	MW-4	<50	**70**	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

ND = Results are below laboratory reporting limits
NA = Not Analyzed
* = Higher boiling point components of gasoline are present
** = Also ND for additional fuel oxygenates and lead scavengers.
*** = See laboratory report for additional oxygenates detected.

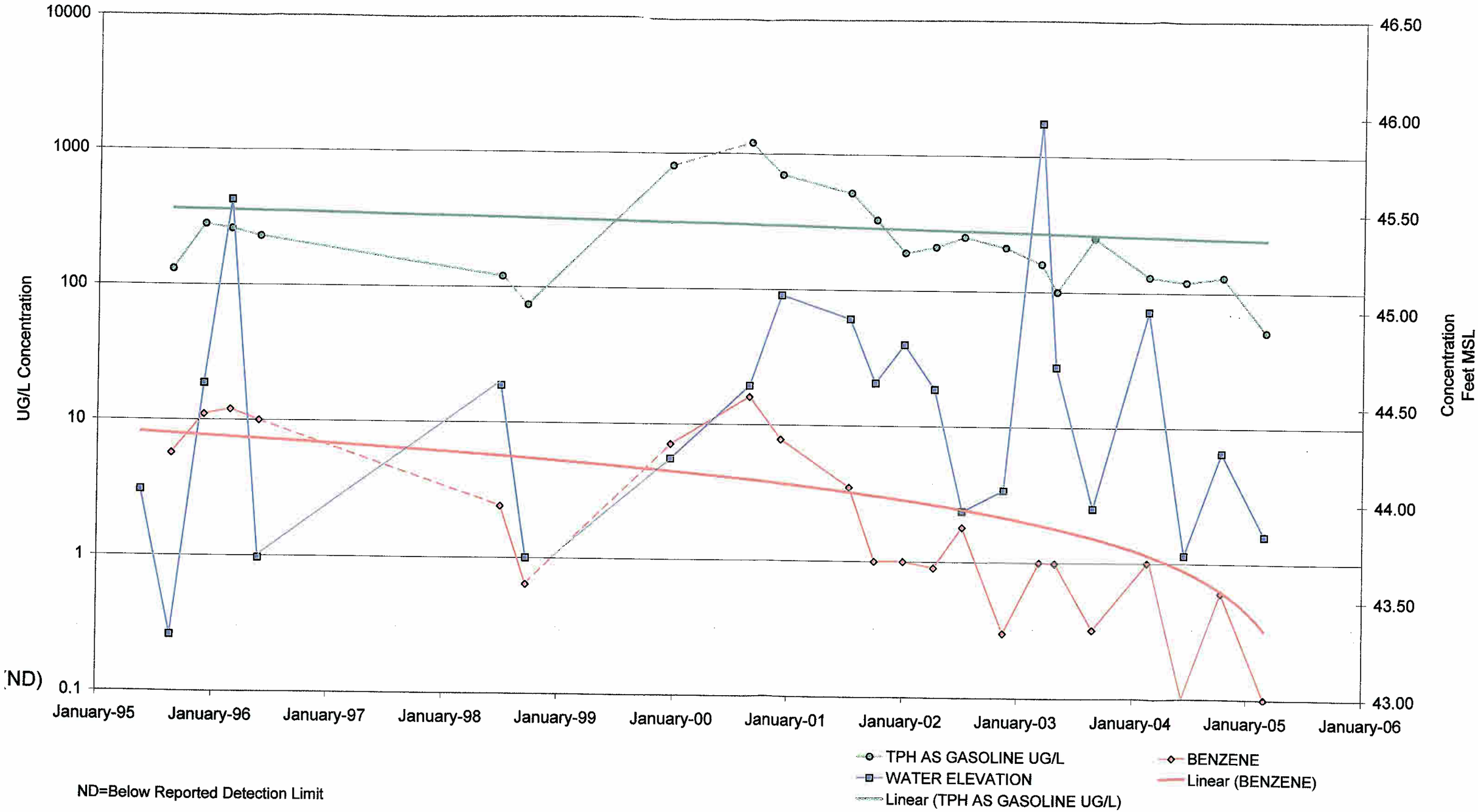
Appendix D - continued

Sample Date	Monitoring Well ID	TPH as Gasoline	TPH as Diesel	B	T	E	X	MtBE*
		µg/L						
03/04/04	MW-1	<50	**140**	**0.36**	<0.30	<0.50	<0.50	<0.50
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-3	**130**	**240**	**1.0**	<0.30	<0.50	<0.50	<0.50
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
7/02/04	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-2	NA	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-3	**120**	<50	<3.0	<3.0	<5.0	<5.0	<5.0
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
10/29/04	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-2	NS	NS	NS	NS	NS	NS	NS
	MW-3	**130**	<50	**0.60**	<0.30	<0.50	<0.50	<0.50
	MW-4	NS	NS	NS	NS	NS	NS	NS
	MW-5	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS
03/16/05	MW-1	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-2	NS	NS	NS	NS	NS	NS	NS
	MW-3	**51**	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	MW-4	NS	NS	NS	NS	NS	NS	NS
	MW-5	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS

< = Samples are below the indicated laboratory detection limit.
* = Additional 8260B analytes were not detected above the reported laboratory detection limit.
NA = Not analyzed due to broken sample containers.
NS = Not sampled.

APPENDIX E

Time vs. Concetration Graph MW-3
Fern Cafe, 606 Main Street, Ferndale
TTC Job No. 3057.01



ND=Below Reported Detection Limit

DISTRIBUTION LIST

1st Quarter 2005 Monitoring Report

Fern Café
606 Main Street
Ferndale, California

April 11, 2005
Job No. 3057.01

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