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December 20, 2005

4563.01

Humboldt County Department of Health and Human Services
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

Attention: Mr. Mark Verhey, C.E.G.

Subject: Groundwater Monitoring Report; Fourth Quarter 2005
Former Fortuna Shell; 809 Main Street, Fortuna, California
LOP No. 12672

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the fourth quarter of 2005, for the presently operating Gas-4-Less. The site, former Fortuna Shell, is located in Fortuna, California (Figures 1 and 2). This report has been prepared on behalf of W & S Enviro.

The following elements are included within this report:

- Summary of work performed;
- Site chronology;
- Bulleted summary of hydraulic gradients;
- Tabular summary of analytical data;
- Statement of future work; and
- Figures representing shallow and perched zone equipotentials.

Please call (707) 443-5054 if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

Brian Hodgson
Junior Engineer

Christopher J. Watt
PG 7586, Exp. 03/31/06

PROFESSIONAL GEOLOGIST
CHRISTOPHER JOHN WATT
No. 7586
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BRH:jg

Attachments

cc: Jim Seiler, W & S Enviro (electronically sent)

P:\4000\4563 HPI Fortuna Shell\Submittals\GMRs\2005\4Q05\4563_4Q05_GMR.doc

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GROUNDWATER MONITORING REPORT; FOURTH QUARTER 2005

Former Fortuna Shell; 809 Main Street, Fortuna, California

LOP No. 12672; LACO Project No. 4563.01

INTRODUCTION

This report presents the cumulative results of groundwater monitoring conducted at the former Fortuna Shell (hereafter referred to as the 'site') since 2000. Field activities were conducted on November 1, 2005, in accordance with generally accepted practices at this or similar locations. Monitoring well sampling protocol is included in LACO's *Standard Operating Procedures,* on file at your office. Details of the current groundwater monitoring sampling event are presented below in Table A. A location map and site map are included as Figures 1 and 2, respectively. Field sampling forms are included as Attachment 1.

SITE CHRONOLOGY

1998: Temporary borings B1 through B11 were installed in conjunction with an underground storage tanks (USTs) closure investigation.

1999: Four USTs were removed from the site.

- Tank 1: 2,000-gallon
- Tank 2: 10,000-gallon
- Tank 3: 10,000-gallon
- Tank 4: 8,000-gallon

Approximately 140 cubic yards of impacted cavity fill material and soil was excavated during tank removal activities and transported by Roger's Trucking to TPS Technologies in Richmond, California, for treatment and disposal.

2000: A domestic well survey was conducted and included properties located within 600 feet of the site. Monitoring wells MW1 through MW5 were installed within the perched zone and monitoring wells MW6 through MW8 were installed within the shallow zone. Temporary borings B1-00 through B20-00 were installed to investigate the stratigraphy of the site and define lateral and vertical extents of secondary source petroleum hydrocarbons. Soil and depth discrete groundwater samples were collected; where possible, groundwater samples were collected from both the perched zone and the next underlying water bearing unit.

2001: Groundwater samples were collected for analysis of microbial activity from monitoring wells MW4, MW5, and MW7 in the perched zone unit, and monitoring well MW8 in the shallow zone. LACO personnel performed bail and slug tests on monitoring wells MW1 and MW2 to determine hydraulic conductivities in the perched zone. Monitoring wells MW9 through MW13 were installed off-site in the shallow zone. Temporary borings HP1 through HP6 were installed to collect discrete groundwater samples from the shallow zone off-site and the intermediate zone on-site.

2002: Four temporary borings from were installed adjacent to monitoring wells MW9, MW10, MW11, and MW12 to further characterize soils at the site (no soil or groundwater samples were obtained for laboratory analyses). A Corrective Action Plan that proposed remedial action using enhanced bio-remediation of the secondary source petroleum hydrocarbons and monitored natural attenuation of the dissolved-phase plume was submitted to the Humboldt County Division of Environmental Health (HCDEH).

2003: A Remediation Action Plan (RAP) was submitted to the HCDEH detailing the proposed scope of work to install, operate, and monitor an oxygen sparge system to reduce on-site secondary source petroleum hydrocarbon mass.

2004: Monitoring wells MW14, MW15, and MW16 were installed to serve as monitoring points for the forthcoming remediation program. Temporary borings B12 and B13 were installed in the alley west of the site. The presence of dissolved-phase methyl tertiary butyl ether (MTBE) in one boring led to the installation of two additional monitoring wells, MW17S and MW17D (S = shallow, D = deep), which are being used to delineate the dissolved-phase MTBE plume.

Two sparge wells, one within the shallow zone and one within the perched zone, were installed at the site for an oxygen sparging pilot test. In order to establish baseline data, groundwater samples were collected from monitoring wells MW4, MW6, and MW7 prior to start-up of the oxygen system.

2005: A RAP Addendum that utilized data from the oxygen sparging pilot test to design an effective remedial methodology was submitted to the HCDEH. The remedial methodology included an oxygen sparging system to reduce on-site secondary source petroleum hydrocarbon mass and monitoring the natural attenuation of the off-site fuel oxygenate plume.

Table A: Sampling Regime for November 1, 2005.

Monitoring Well ID	Screened Interval (feet)	DTW (feet)	Purge Method	Water Quality Parameters	Organic Analyticals	Lead Scavengers	Sampling Schedule
MW1	6-10	7.24	DHP	pH, T, ECw, ORP, DO	TPHg, TPHd, TPHmo, BTEX, MTBE, DIPE, ETBE, TAME, TBA	1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroathane 1,2-Dibromoethane (EDB) Chlorobenzene	Quarterly
MW2	5-10	7.07					
MW3	5-12	7.31					
MW4	5-10	7.45					
MW5	5-10	7.77	¾" Bailer	---			
MW6	12-20	7.99	DHP	pH, T, ECw, ORP, DO			
MW7	10-15	7.12					
MW8	15-20	8.65					
MW9	12-15	10.21			TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA		
MW10	12.5-15.5	9.84					
MW11	12.5-15.6	11.70					
MW12	12.5-15	11.03					
MW13	12.5-16	9.94					
MW14	5-10	7.47			TPHg, TPHd, TPHmo, BTEX, MTBE, DIPE, ETBE, TAME, TBA		
MW15	5-10	7.65		---			
MW16	5-11	7.03					
MW17S	22.5-24.5	22.20	¾" Bailer		TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA		
MW17D	26-28	26.26					

A key to abbreviations is included as Attachment 2

HYDROGEOLOGY AND HYDRAULIC GRADIENT

Stratigraphic data from boring and monitoring well installations to date indicate that several primarily sand and gravel water-bearing units exist, and are primarily separated by layers of dense clayey silt to depths of approximately 40 feet below ground surface (bgs). Previous investigations have indicated that the upper contact of the dense, well-graded gravel of the Rohnerville formation occurs from 38 to 45 feet bgs. The Rohnerville formation functions as a confined artesian water-bearing unit in the vicinity of the subject property.

Equipotential maps for the perched and shallow zones were generated using the November 1, 2005, hydraulic head elevations, and are presented as Figures 3 and 4, respectively. The hydraulic gradient in the perched zone was calculated using the three-point method in the area defined by monitoring wells MW1, MW3, and MW14. The hydraulic gradient in the shallow zone was calculated using the three-point method in the area defined by monitoring wells MW7, MW11, and MW13. These monitoring wells were selected because they are located along the site perimeter and best represent hydraulic gradients of the site.

Hydraulic gradient, perched zone (Figure 3)

- N60°W direction at 0.02 feet per feet

Hydraulic gradient, shallow zone (Figure 4)

- S67°W direction at 0.04 feet per feet

Calculated gradients for shallow and perched zones are consistent with previous monitoring events (Table 1). Current and historic hydraulic head elevations are presented in Table 2.

LABORATORY ANALYTICAL RESULTS AND DISCUSSION

Groundwater analytical data from the current sampling event is included below in Table B. Copies of the current laboratory results and case narratives from the laboratory are included as Attachment 3. Historic and current groundwater analytical results are presented in Table 2.

Table B: Analytical Results, November 1, 2005.

WELL ID	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW1	460	ND<50	ND<170	0.65	ND<0.50	1.8	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW2	6,100	500	ND<170	28	4.4	24	18	ND<7.0	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW3	280	69	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	76	ND<22	4.7	ND<1.0	ND<1.0	All ND<1.0-3.0
MW4	2,300	240	ND<170	9.5	1.2	9.1	5.0	ND<8.0	41	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW5	13,000	12,000	7,100	630	15	97	80	ND<400	61	6.2	ND<1.0	ND<1.0	All ND<1.0-3.0
MW6	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW7	230	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	280	ND<65	12	1.3	ND<1.0	All ND<1.0-3.0
MW8	1,200	110	ND<170	1.3	ND<0.50	ND<0.50	ND<0.50	3,000	420	80	9.8	2.1	All ND<1.0-3.0
MW9	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.8	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW10	99	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.1	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW11	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW12	340	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	580	ND<10	21	1.8	1.1	All ND<1.0-3.0
MW13	250	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	390	ND<10	14	ND<1.0	ND<1.0	All ND<1.0-3.0
MW14	920	92	ND<190	0.88	ND<0.50	1.3	ND<0.50	6.6	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW15	2,500	99	ND<210	180	4.4	35	12	ND<120	ND<28	2.6	ND<1.0	ND<1.0	All ND<1.0-3.0
MW16	6,100	860	1,800	1,000	16	27	36	430	280	11	4.5	ND<1.0	All ND<1.0-3.0
MW17S	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.1	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW17D	92	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	64	ND<35	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0

A key to abbreviations is included as Attachment 2

Laboratory results reported for samples collected during the November 1, 2005, quarterly sampling event are consistent within the range of results historically reported for active wells.

FUTURE WORK

The next quarterly monitoring event is scheduled for February 2006. A proposal for

implementation of the remedial design was submitted to the Underground Storage Tank Cleanup Fund (Fund) in June 2005. Pre-remediation baseline sampling will be performed following Fund approval of the Pay-for-Performance program.

LIMITATIONS

LACO has exercised a standard of care equal to that generated for this industry to ensure that the information contained in this report is current and accurate. LACO disclaims any and all liability for any errors, omissions, or inaccuracies in information and data presented in this report and/or any consequences arising there from, whether attributable to inadvertence or otherwise. LACO makes no representations or warranties of any kind, including but not limited to any implied warranties with respect to the accuracy or interpretations of the data furnished. LACO assumes no responsibility of any third party reliance on the data presented and that data generated for this report represents information gathered at that time and at the indicated locations. It should not be utilized by any third party to represent data for any other time or location. This report is valid solely for the purpose, site, and project described within this document. Any alteration, unauthorized distribution, or deviation from this description will invalidate this report.

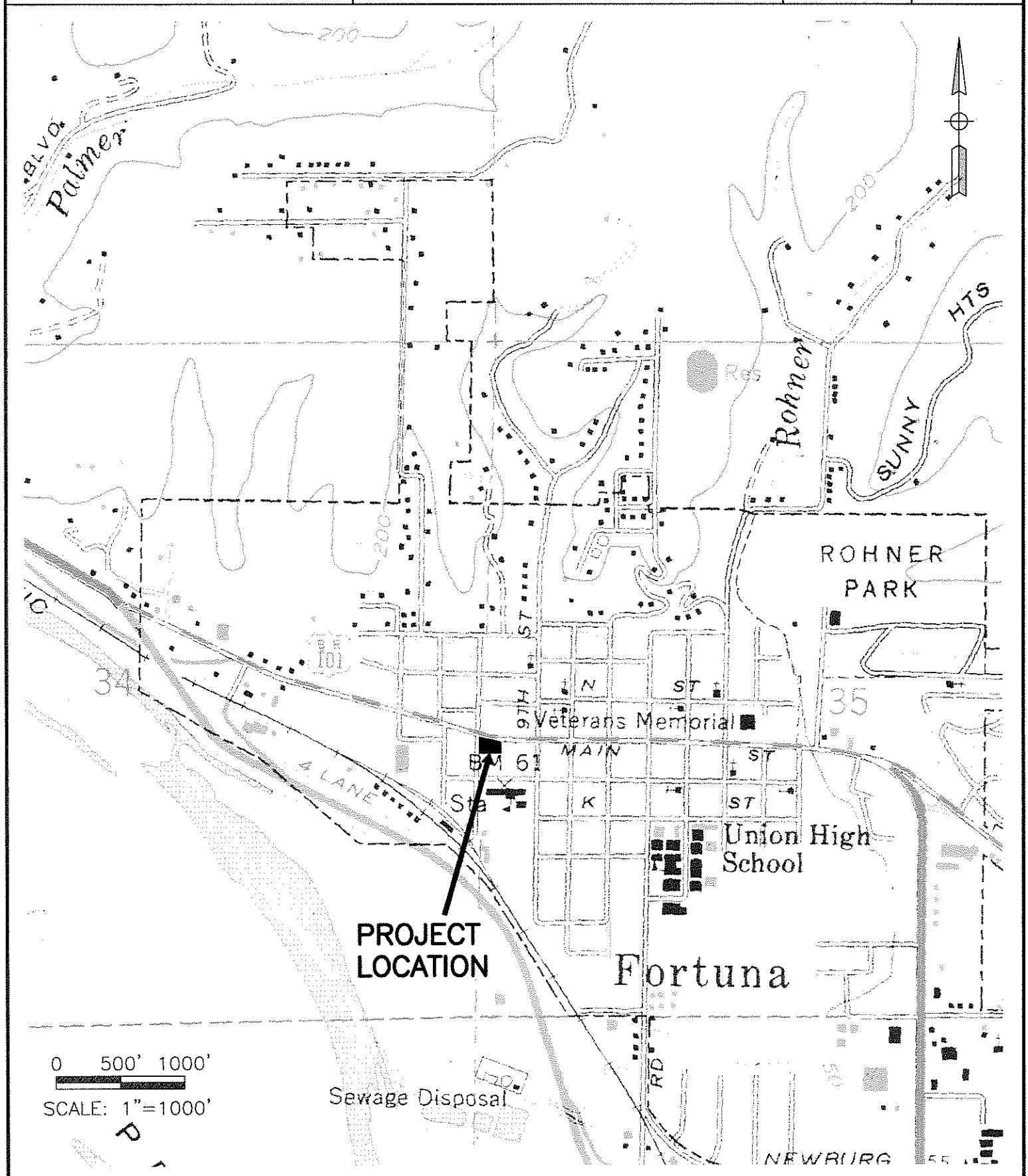
LIST OF FIGURES, TABLES, AND ATTACHMENTS

Figure 1: Location Map
Figure 2: Site Map
Figure 3: Hydrologic Gradient Map, Perched Wells (11/1/05)
Figure 4: Hydrologic Gradient Map, Shallow Wells (11/1/05)

Table 1: Historic Hydraulic Gradients
Table 2: Well Data and Groundwater Analytical Results

Attachment 1: Field Sampling Forms
Attachment 2: Key to Abbreviations
Attachment 3: Current Laboratory Analytical Results

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY BAB	FIGURE 1
	CLIENT W & S ENVIRO	DATE 12/05/05	
	LOCATION FORTUNA SHELL	CHECK BH	JOB NO. 4563.01
	LOCATION MAP	SCALE 1"=1000'	



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0' 20' 40'
SCALE: 1"=40'

MAIN STREET
EIGHTH ST
RESIDENTIAL
MEDICAL
USED CAR LOT FORMER SERVICE STATION
FORMER PUMP ISLAND
DON'S TRANSMISSION (FORMER)
FORMER USTs
ALLEY
HOUSE
FORTUNA SHELL
PUMP ISLAND
RESTROOMS
OFFICE
CONTROL BOX
HOTEL
CHEVRON MINI-MART
FORMER W/O TANK
TRASH
GARAGE
MEDICAL SUPPLLY
NINTH STREET
PACIFIC BELL
EIGHTH STREET

LEGEND

- MONITORING WELL
- PERCHED MONITORING WELL
- SHALLOW MONITORING WELL
- BORING
- HYDROPUNCH BORING
- SHALLOW MONITORING WELL-CHEVRON
- INTERMEDIATE MONITORING WELL-CHEVRON
- DEEP MONITORING WELL-CHEVRON
- DESTROYED MONITORING WELL

UTILITY

- = DRAINAGE INLET
- = WATER METER
- SS = SANITARY SEWER
- SD = STORM DRAIN
- E = ELECTRIC
- P = TELEPHONE
- CTV = CABLE TELEVISION
- (MH) = MANHOLE

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
21 W. 4TH ST. EUREKA, CA 95501 (707)443-5054

GROUNDWATER MONITORING REPORT
SITE MAP

W & S ENVIRO
FORTUNA SHELL
809 MAIN STREET, FORTUNA

SCALE	1"=40'
DRAWN	BAB
CHECK	TJW
APPVD	
DATE	12/07/05
JOB NO.	4563.01
FIGURE	2

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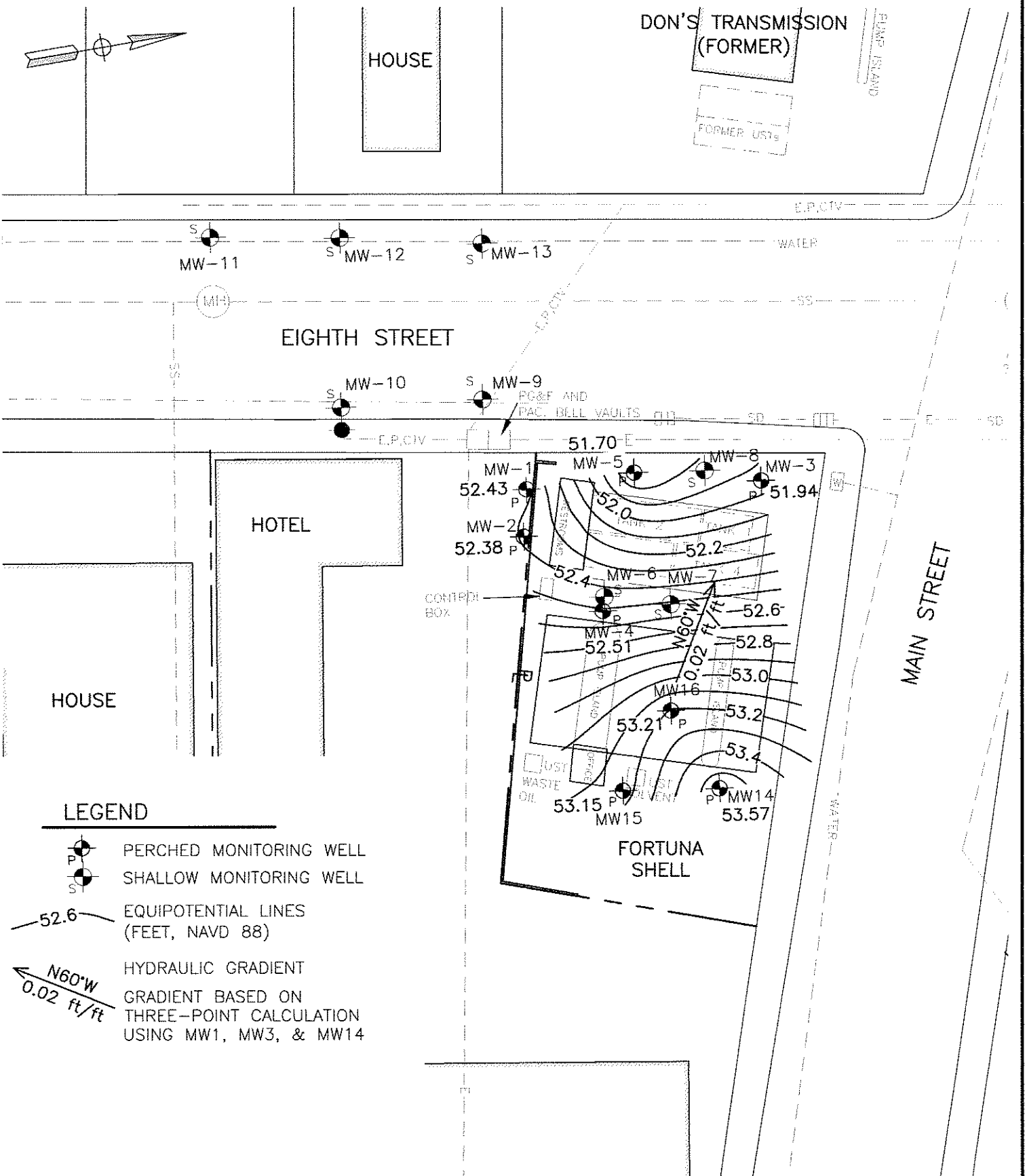
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	GROUNDWATER MONITORING REPORT	BY	BAB	FIGURE
	CLIENT	W & S ENVIRO	DATE	12/07/05	3
	LOCATION	FORTUNA SHELL, 809 MAIN ST.	CHECK		JOB NO.
		HYDRAULIC GRADIENT, PERCHED WELLS (11/1/05)	SCALE	1"=30'	4563.01



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LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	GROUNDWATER MONITORING REPORT	BY	BAB	FIGURE
	CLIENT	W & S ENVIRO	DATE	12/07/05	4
	LOCATION	FORTUNA SHELL, 809 MAIN ST.	CHECK		JOB NO.
		HYDRAULIC GRADIENT, SHALLOW WELLS (11/1/05)	SCALE	1"=30'	4563.01

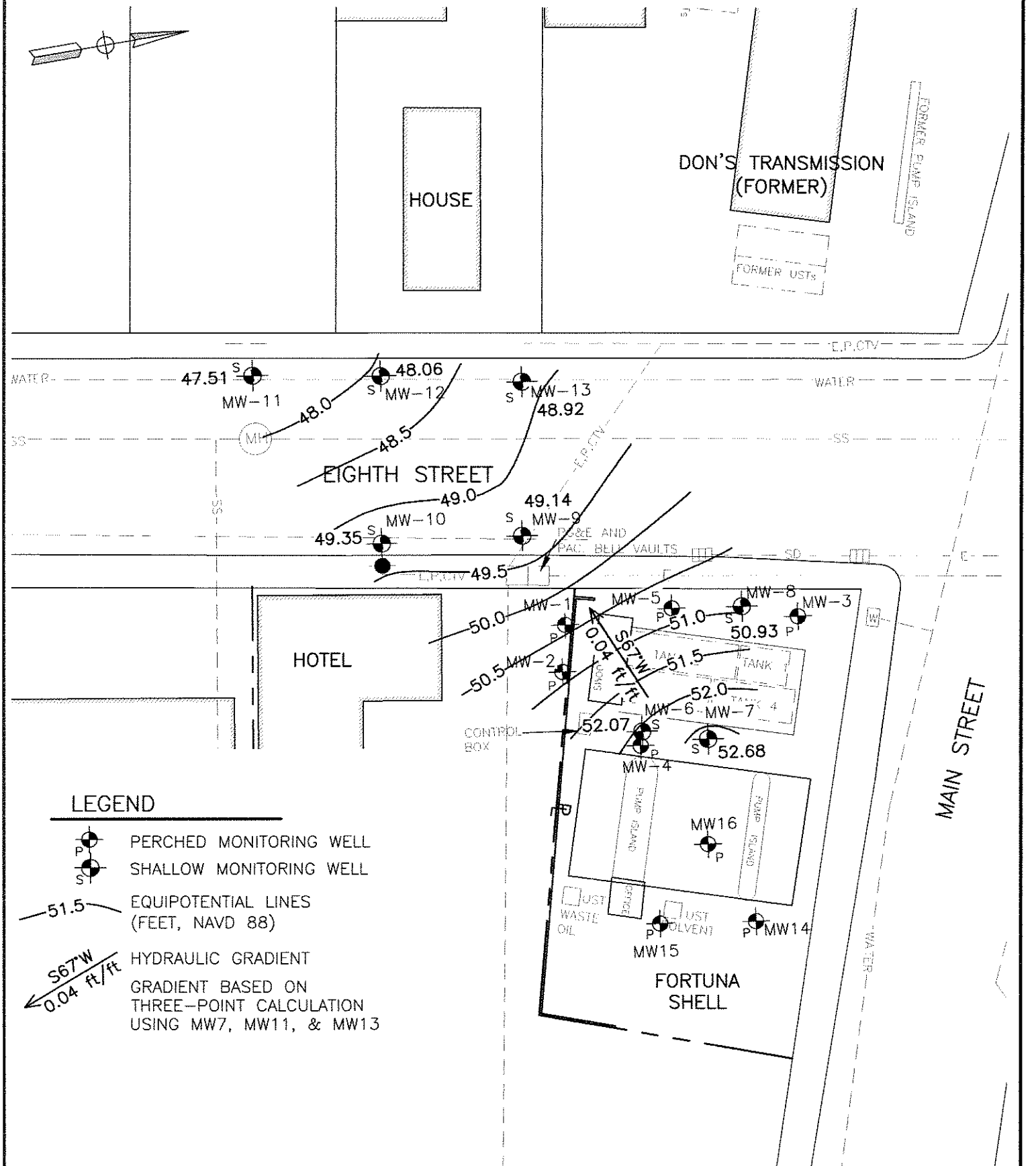

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TABLE 1: HISTORIC HYDRAULIC GRADIENTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

	Shallow Aquifer		Perched Aquifer	
Date	Gradient Direction	Slope (ft/ft)	Gradient Direction	Slope (ft/ft)
9/2000	S2°E	<0.01	S48°W	0.01
10/2000	S2°E	<0.01	S45°E	0.01
11/2000	S22°E	<0.01	S34°W	0.02
12/12/2000	S56°W	0.06	---	---
1/8/2000	S64°W	0.11	---	---
3/12/2001	S37°W	0.14	---	---
6/2001	S43°W	0.14	S31°W	0.03
7/2001	S43°W	0.13	S34°W	0.02
8/2001	S71°E	0.24	S27°W	0.01
9/2001	S54°W	0.16	S29°W	0.01
10/2001	S54°W	0.16	S37°W	0.01
11/2001	S54°W	0.15	S32°W	<0.01
2/5/2002	N35°W	0.07	N19°E	0.02
5/9/2002	S49°W	0.14	S62°W	0.02
8/15/2002	S30°W	0.06	S24°W	0.12
12/20/2002	S56°W	0.07	S22°W	0.02
2/11/2003	S47°W	0.07	N8°E	0.02
5/13/2003	---	---	N19°E	0.02
8/14/2003	S13°W	0.04	S1°W	0.02
11/4/2003	S24°W	0.22	S3°E	0.02
2/2/2004	S37°W	0.02	N13°E	0.03
5/4/2004	S26°W	0.03	N62°W	0.02
8/3/2004	N65°W	0.02	N79°W	0.02
11/10/2004	N88°W	0.04	N81°W	<0.01
2/1/2005	S86°W	0.04	N47°W	0.02
5/3/2005	S79°W	0.05	N35°W	0.03
8/2/2005	S74°W	0.04	N66°W	0.02
11/1/2005	S67°W	0.04	N60°W	0.02

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW1	59.67	Screened Interval = 6-10 feet bgs														
8/4/2000		53.51	6.16	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		53.41	6.26	3,600	230	ND<170	42	5	27	20.1	500	ND<20	56	ND<1.0	ND<1.0	
9/8/2000		52.64	7.03	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.15	7.52	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.91	5.76	2,900	210	ND<170	9.2	1.4	8.1	5.5	250	120	27	ND<1.0	ND<1.0	
12/12/2000		54.60	5.07	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.83	4.84	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		54.83	4.84	2,800	570	ND<170	23	2.4	12	4.8	74	ND<20	ND<2.0	ND<2.0	ND<2.0	
3/12/2001		55.47	4.20	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.87	4.80	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		54.69	4.98	3,400	420	ND<200	37	3.9	19	7.52	120	ND<10	ND<1.0	ND<1.0	ND<1.0	
6/8/2001		54.42	5.25	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		53.69	5.98	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		53.21	6.46	2,300	190	ND<170	25	3.6	18	9.42	130	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
9/17/2001		52.69	6.98	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.15	7.52	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		52.13	7.54	4,300	350	ND<170	25	2.2	15	7.5	94	53	9.2	ND<1.0	ND<1.0	
2/5/2002		55.60	4.07	2,100	99	---	16	3.9	24	8.5	20	25	2.6	ND<1.0	ND<1.0	
5/9/2002		54.85	4.82	2,300	130	ND<170	18	2.6	16	3.6	8.7	ND<5.0	1.0	ND<1.0	ND<1.0	
8/15/2002		53.11	6.56	1,500	130	ND<170	6.6	1.2	7.3	8.4	9.9	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
12/20/2002		56.52	3.15	410	ND<50	ND<170	ND<50	ND<50	ND<50	0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	
2/11/2003		55.42	4.25	1,700	140	ND<170	13	4.6	17	4.8	15	ND<20	1.1	ND<1.0	ND<1.0	1,2-EDB=1.1
5/13/2003		54.79	4.88	320	ND<50	ND<170	3.1	1.5	5.9	2.4	1.8	ND<20	ND<1.0	ND<1.0	ND<1.0	
8/14/2003		52.47	7.20	1,700	ND<50	ND<170	7.0	1.3	7.7	3.5	13	ND<20	1.4	ND<1.0	ND<1.0	
11/4/2003		51.72	7.95	4,500	320	ND<170	31	3.8	17	12	ND<70	ND<20	2.8	ND<1.0	ND<1.0	
2/2/2004		56.71	2.96	80	ND<50	ND<170	ND<50	ND<50	ND<50	ND<50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/4/2004		54.27	5.40	130	ND<50	ND<170	ND<50	ND<0.50	ND<50	ND<0.50	ND<1.0	ND<0.10	ND<1.0	ND<1.0	ND<1.0	
8/3/2004		52.12	7.55	1,400	180	ND<170	4.7	0.87	3.7	1.5	ND<6.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		54.27	5.40	61	ND<50	ND<170	ND<50	ND<0.50	ND<50	ND<0.50	ND<1.0	ND<0.10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		55.07	4.60	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		54.62	5.05	3,900	370	ND<170	4.4	3.7	18	6.78	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/2/2005		53.29	6.38	2,400	290	ND<170	3.6	1.5	12	3.61	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		52.43	7.24	460	ND<50	ND<170	0.65	ND<0.50	1.8	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW2	59.45	Screened Interval = 5-10 feet bgs														
8/4/2000		53.49	5.96	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		53.45	6.00	8,000	330	ND<170	160	8.6	34	49	790	ND<50	82	ND<2.5	ND<2.5	
9/8/2000		52.62	6.83	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.12	7.33	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.98	5.47	8,600	510	ND<170	130	6.2	25	32	680	420	86	ND<2.5	ND<2.5	
12/12/2000		54.59	4.86	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.87	4.58	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		54.68	4.77	8,200	590	ND<170	150	9.6	39	40	310	ND<50	ND<5.0	ND<5.0	ND<5.0	
3/12/2001		55.04	4.41	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.91	4.54	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		54.65	4.80	8,000	950	ND<200	110	6.9	30	32	280	ND<25	ND<2.5	ND<2.5	ND<2.5	
6/8/2001		54.42	5.03	---	---	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		53.75	5.70	---	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2001		53.23	6.22	5,900	300	ND<170	47	4.5	17	19	180	ND<25	ND<2.5	ND<2.5	ND<2.5	
9/17/2001		52.74	6.71	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.25	7.20	---	---	---	---	---	---	---	---	---	---	---	---	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW2 Continued																
11/6/2001		52.17	7.28	8,400	580	ND<170	100	8.7	33	33	160	ND<50	15	ND<5.0	ND<5.0	
2/5/2002		---	---	9,900	460	---	160	13	71	51	170	100	21	ND<3.0	ND<3.0	
5/9/2002		54.81	4.64	7,800	360	ND<170	100	8.6	44	37	54	ND<30	6.1	ND<3.0	ND<3.0	
8/15/2002		50.84	8.61	6,400	720	ND<170	110	11	42	44	65	ND<40	5.6	ND<4	ND<4	
12/20/2002		56.25	3.20	5,200	330	ND<170	20	ND<5.0	18	16	ND<20	ND<200	ND<10	ND<10	ND<10	
2/11/2003		54.93	4.52	7,900	610	ND<170	100	10	50	49.3	ND<300	92	10	ND<1.0	ND<1.0	1,2-EDB=1.1 1,2-DCA=1.9
5/13/2003		55.39	4.06	6,200	600	ND<170	51	7.7	41	37.8	ND<100	ND<20	5.2	ND<1.0	ND<1.0	1,2-DCA=1.2
8/14/2003		52.40	7.05	9,400	810	ND<170	70	7.3	34	29.7	ND<180	31	7.6	ND<1.0	ND<1.0	
11/4/2003	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	
2/2/2004		56.17	3.28	5,900	730	ND<170	21	5.4	27	20.3	ND<14	ND<10	1.1	ND<1.0	ND<1.0	
5/4/2004		54.20	5.25	7,000	500	ND<170	60	11	51	40	ND<45	ND<20	2.4	ND<1.0	ND<1.0	
8/3/2004		52.13	7.32	7,300	740	ND<170	47	7.9	39	31.3	ND<36	ND<10	1.8	ND<1.0	ND<1.0	
11/10/2004		54.14	5.31	6,300	980	ND<170	32	6.3	34	27.2	ND<15	ND<10	1.0	ND<1.0	ND<1.0	
2/1/2005		55.03	4.42	7,600	220	ND<170	34	6.3	41	35.6	ND<10	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		54.70	4.75	11,000	990	ND<170	30	5.7	33	26.3	ND<10	ND<15	1.1	ND<1.0	ND<1.0	
8/2/2005		53.34	6.11	4,500	820	ND<170	23	5.4	26	20	ND<7	ND<0	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		52.38	7.07	6,100	500	ND<170	28	4.4	24	18	ND<7.0	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW3	59.25	**Screened Interval = 5-12 feet bgs**														
8/4/2000		53.06	6.19	---	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2000		53.11	6.14	2,300	74	ND<170	4.3	ND<4.0	ND<4.0	ND<4.0	5,600	2,500	550			
9/8/2000		52.58	6.67	---	---	---	---	---	---	---	---	---	---	---	---	---
10/12/2000				---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.46	5.79	2,000	59	ND<170	ND<2.0	ND<2.0	ND<2.0	ND<2.0	4,000	1,300	490	ND<5.0	ND<5.0	
12/12/2000		53.85	5.40	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		53.94	5.31	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		54.32	4.93	1,900	ND<50	ND<170	7.6	ND<5.0	ND<5.0	ND<5.0	2,000	ND<100	200	ND<10	ND<10	
3/12/2001		53.70	5.55	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.23	5.02	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		53.92	5.33	1,200	56	ND<200	1.4	ND<1.3	ND<1.3	ND<1.3	1100	270	130	ND<2.5	ND<2.5	
6/8/2001		53.68	5.57	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		53.16	6.09	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		52.95	6.30	740	ND<50	ND<170	5.1	ND<1.3	ND<1.3	ND<1.3	970	200	94	ND<2.5	ND<2.5	
9/17/2001		52.75	6.50	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.22	7.03	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		51.92	7.33	880	ND<50	ND<170	1.5	ND<1.0	ND<1.0	ND<1.0	1,100	160	99	ND<2.0	ND<2.0	
2/5/2002		54.58	4.67	600	ND<50	---	0.74	ND<0.50	ND<0.50	ND<0.50	740	310	86	2.2	ND<1.0	
5/9/2002		54.23	5.02	920	ND<50	ND<170	5.3	ND<0.50	0.81	ND<0.50	470	100	40	ND<1.0	ND<1.0	
8/15/2002		52.96	6.29	590	71	ND<170	6.3	0.56	0.95	1.8	420	150	30	1.1	ND<1.0	
12/20/2002		54.97	4.28	99	ND<50	ND<170	0.90	ND<0.50	ND<0.50	0.59	91	ND<70	4	ND<1.0	ND<1.0	
2/11/2003		54.54	4.71	740	ND<50	ND<170	2.8	1.1	ND<0.50	5.06	720	300	57	ND<1.0	ND<1.0	
5/13/2003		54.96	4.29	1,300	220	ND<170	25.0	4.3	1.2	22.9	680	300	60	ND<1.0	ND<1.0	
8/14/2003		52.36	6.89	820	95	ND<170	3.4	0.7	ND<0.50	3.9	1,000	180	73	ND<1.0	ND<1.0	
11/4/2003		51.79	7.46	650	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	1.54	940	78	65	1.2	ND<1.0	
2/2/2004		55.27	3.98	3,600	490	ND<170	26	1.4	0.81	6.4	180	79	15	ND<1.0	ND<1.0	
5/4/2004		53.84	5.41	2,200	310	ND<170	4.6	1.0	ND<0.50	2.58	81	ND<40	5.3	ND<1.0	ND<1.0	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW3 Continued																
8/3/2004		52.06	7.19	960	140	ND<170	0.68	ND<0.50	ND<0.50	1.32	220	42	14	ND<1.0	ND<1.0	
11/10/2004		53.31	5.94	910	190	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	290	ND<50	19	ND<1.0	ND<1.0	
2/1/2005		54.46	4.79	2,900	460	ND<170	8.4	0.89	0.56	3.5	44	ND<30	3.1	ND<1.0	ND<1.0	
5/3/2005		53.58	5.67	1,600	280	ND<170	1.1	ND<0.50	ND<0.50	1.29	23	ND<20	2.0	ND<1.0	ND<1.0	
8/2/2005		53.03	6.22	830	160	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	45	ND<20	3.2	ND<1.0	ND<1.0	
11/1/2005		51.94	7.31	280	69	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	76	ND<22	4.7	ND<1.0	ND<1.0	All ND<1.0-3.0
MW4	59.96	Screened Interval = 5-10 feet bgs														
8/4/2000		53.73	6.23	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		53.67	6.29	11,000	530	ND<170	900	32	69	159	620		45	ND<1.0	ND<1.0	
9/8/2000		52.85	7.11	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.33	7.63	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.87	6.09	6,400	61	ND<170	600	20	80	82.5	180	ND<100	ND<5.0	ND<5.0	ND<5.0	
12/12/2000		54.67	5.29	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.72	5.24	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		55.21	4.75	5,400	550	ND<170	540	12	47	38	140	ND<100	ND<10	ND<10	ND<10	
3/12/2001		55.44	4.52	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		55.21	4.75	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		54.96	5.00	6,200	920	ND<200	620	24	120	76.2	210	ND<50	ND<5.0	ND<5.0	ND<5.0	
6/8/2001		54.84	5.12	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		54.04	5.92	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		53.43	6.53	5,900	520	570	660	26	130	98.8	190	ND<100	ND<10	ND<10	ND<10	
9/17/2001		52.96	7.00	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.39	7.57	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		52.36	7.60	7,200	200	ND<170	670	30	100	77	120	ND<100	ND<10	ND<10	ND<10	
2/5/2002		55.56	4.40	4,800	83	---	340	14	48	27	100	32	5.8	ND<3.0	ND<3.0	
5/9/2002		55.47	4.49	3,800	260	ND<170	300	19	74	48.6	52	ND<30	ND<3.0	ND<3.0	ND<3.0	
8/15/2002		54.07	5.89	4,700	280	ND<170	350	21	82	46.7	81	ND<50	ND<5.0	ND<5.0	ND<5.0	
12/20/2002		55.80	4.16	6,900	260	ND<170	430	32	97	52	ND<150	ND<1000	ND<50	ND<50	ND<50	
2/11/2003		55.58	4.38	5,700	64	ND<170	430	24	57	55.9	500	230	28	1.1	ND<1.0	1,2-DCA=1.3
5/13/2003		54.91	5.05	5,500	500	ND<170	360	27	85	65.7	ND<200	47	8.1	ND<1.0	ND<1.0	1,2-DCA=1.0
8/14/2003		52.90	7.06	7,400	440	ND<170	480	22	79	47.4	120	51	5.6	1.1	ND<1.0	
11/4/2003		52.01	7.95	10,000	700	ND<170	600	35	110	71.8	ND<150	ND<20	4.4	ND<1.0	ND<1.0	1,2-DCA=1.0
2/2/2004		56.19	3.77	8,400	740	ND<170	450	27	85	63	ND<150	ND<60	4.6	ND<1.0	ND<1.0	
5/4/2004		54.77	5.19	3,500	120	ND<170	74	8.5	26	27.1	ND<80	ND<50	2.0	ND<1.0	ND<1.0	
8/3/2004		52.65	7.31	420	ND<50	ND<170	4.3	0.66	2.1	1.9	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		54.16	5.80	190	ND<50	ND<170	1.1	ND<0.50	0.95	0.99	ND<2.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		55.48	4.48	170	ND<50	ND<170	0.71	ND<0.50	ND<0.50	ND<0.50	ND<4.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		55.35	4.61	300	ND<50	ND<170	1.3	ND<0.50	ND<0.50	0.55	1.8	ND<15	ND<1.0	ND<1.0	ND<1.0	
8/2/2005		53.93	6.03	220	60	ND<170	2.6	ND<0.50	ND<0.50	ND<0.50	1.7	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		52.51	7.45	2,300	240	ND<170	9.5	1.2	9.1	5.0	ND<8.0	41	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW5	59.47	Screened Interval = 5-10 feet bgs														
8/4/2000		53.10	6.37	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		53.31	6.16	23,000	1,900	ND<170	3,600	61	590	1,556	4,500	ND<500	ND<25	ND<25	ND<25	
9/8/2000		53.02	6.45	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.47	7.00	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.59	5.88	17,000	1,200	930	2,500	60	800	940	2,300	ND<500	ND<25	ND<25	ND<25	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW5 Continued																
12/12/2000		54.28	5.19	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.26	5.21	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**54.45**	**5.02**	**17,000**	**890**	ND<170	**2,600**	**49**	**370**	**320**	**2,300**	ND<500	ND<50	ND<50	ND<50	
3/12/2001		54.83	4.64	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.76	4.71	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**54.56**	**4.91**	**14,000**	**1,300**	ND<200	**2,300**	**48**	**510**	**555**	**1,700**	ND<500	ND<25	ND<25	ND<25	
6/8/2001		54.45	5.02	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		53.68	5.79	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		**53.33**	**6.14**	**14,000**	**1,100**	**330**	**2,200**	**52**	**390**	**420**	**2,000**	ND<250	ND<25	ND<25	ND<25	
9/17/2001		52.98	6.49	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.48	6.99	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**52.34**	**7.13**	**20,000**	**1,100**	**420**	**2,500**	**48**	**550**	**493**	**2,300**	**550**	**21**	ND<20	ND<20	
2/5/2002		**55.26**	**4.21**	**15,000**	**660**	---	**2,100**	**42**	**390**	**391**	**2,200**	**890**	**48**	ND<20	ND<20	
5/9/2002		**54.76**	**4.71**	**10,000**	**810**	**210**	**1,400**	**33**	**260**	**270**	**790**	ND<200	**21**	ND<20	ND<20	
8/15/2002		**53.68**	**5.79**	**13,000**	**1,300**	**960**	**1,200**	**33**	**210**	**280**	**910**	ND<200	**24**	ND<20	ND<20	
12/20/2002		**55.23**	**4.24**	**40,000**	**6,900**	**13,000**	**1,800**	**51**	**460**	**380**	ND<1800	ND<1000	ND<50	ND<50	ND<50	
																1,2-DCA=2.7
2/11/2003		**56.06**	**3.41**	**13,000**	**880**	**1,200**	**1,500**	**34**	**200**	**239.7**	**710**	**230**	**25**	**3.5**	ND<1.0	**1,2-EDB=1.0**
5/13/2003		**54.79**	**4.68**	**13,000**	**1,100**	**1,100**	**1,000**	**33**	**230**	**230**	**590**	ND<1000	ND<50	ND<50	ND<50	
8/14/2003		**53.09**	**6.38**	**18,000**	**1,500**	**610**	**1,700**	**44**	**340**	**240**	**760**	ND<1000	ND<50	ND<50	ND<50	
11/4/2003		**52.25**	**7.22**	**52,000**	**37,000**	**56,000**	**1,500**	**33**	**340**	**259.4**	ND<1200	ND<200	**17**	ND<10	ND<10	
2/2/2004		**56.17**	**3.30**	**19,000**	**2,200**	**300**	**1,300**	**29**	**240**	**208.1**	**680**	**99**	**16**	ND<5.5	ND<1.0	**1,2-DCA=2.3**
5/4/2004		**54.59**	**4.88**	**31,000**	**6,500**	**5,100**	**1,500**	**37**	**310**	**217.4**	ND<1000	**82**	**14**	**2.3**	ND<10	
8/3/2004		**52.92**	**6.55**	**21,000**	**2,900**	**1,100**	**1,600**	**32**	**220**	**160**	**530**	ND<500	ND<50	ND<50	ND<50	
11/10/2004		**54.14**	**5.33**	**140,000**	**25,000**	**12,000**	**830**	**20**	**50**	**401**	ND<850	**59**	**8**	**2**	ND<1.0	
2/1/2005		**54.86**	**4.61**	**23,000**	**6,000**	**3,200**	**910**	**24**	**130**	**134.1**	**400**	**34**	**8.1**	**1.4**	ND<1.0	
5/3/2005		**55.28**	**4.19**	**21,000**	**3,900**	**2,000**	**640**	**18**	**180**	**112.5**	**210**	**75**	**6.9**	**1.2**	ND<1.0	
8/2/2005		**54.02**	**5.45**	**29,000**	**8,000**	**3,500**	**550**	**18**	**56**	**153.2**	ND<300	**53**	**4.3**	ND<1.0	ND<1.0	
11/1/2005		**51.70**	**7.77**	**13,000**	**12,000**	**7,100**	**630**	**15**	**97**	**80**	ND<400	**61**	**6.2**	ND<1.0	ND<1.0	All ND<1.0-3.0
MW6	60.06	**Screened Interval = 12-20 feet bgs**														
8/4/2000		**52.86**	**7.20**	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**52.14**	**7.92**	**1,200**	**140**	ND<170	**2.6**	ND<2.5	**1.1**	**1.9**	**820**			**5.4**	**3.0**	
9/8/2000		**51.64**	**8.42**	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		**50.96**	**9.10**	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**51.51**	**8.55**	**670**	ND<50	ND<170	**1.6**	ND<0.5	ND<0.5	**0.65**	**900**	**130**	**10**	**8.8**	**5.0**	**1,2 DCA=8.5**
12/12/2000		**53.24**	**6.82**	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		**52.99**	**7.07**	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**53.55**	**6.51**	**900**	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	**1,200**	ND<50	**35**	**7.8**	ND<5.0	**1,2 DCA=7.3**
3/12/2001		**52.75**	**7.31**	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		**55.35**	**4.71**	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**52.49**	**7.57**	**570**	**51**	ND<200	**1.5**	ND<2.5	ND<2.5	ND<2.5	**860**	**68**	**37**	**5.0**	ND<2.5	**1,2 DCA=4.6**
6/8/2001		**52.34**	**7.72**	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		**52.24**	**7.82**	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		**51.91**	**8.15**	**680**	ND<50	ND<170	ND<1.3	ND<1.3	ND<1.3	ND<1.3	**1,100**	**200**	**38**	**6.4**	**2.6**	**1,2 DCA=4.9**
9/17/2001		**51.59**	**8.47**	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		**51.06**	**9.00**	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**50.84**	**9.22**	**750**	ND<50	ND<170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	**910**	**150**	**35**	**4.9**	**2.1**	**1,2 DCA=3.9**

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW6 Continued																
2/5/2002		54.17	5.89	710	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1,300	350	92	7.8	3.1	Pb Scavs=3.7
5/9/2002		53.79	6.27	630	ND<50	---	ND<1.5	ND<1.5	ND<1.5	ND<1.5	1,100	160	54	3.5	ND<3.0	Pb Scavs=3.5
8/15/2002		52.88	7.18	930	ND<50	ND<170	ND<1.0	ND<1.0	ND<1.0	1.7	980	160	54	5.1	2.3	
12/20/2002		54.47	5.59	910	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,200	480	64	4.9	2.7	1,2-DCA=4.0
2/11/2003		54.39	5.67	1,100	ND<50	ND<170	0.58	ND<0.50	ND<0.50	ND<0.50	1,300	450	74	5.2	ND<4.0	1,2-DCA=3.6
5/13/2003		54.53	5.53	380	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	960	180	62	3.6	1.5	1,2-DCA=3.1
8/14/2003		51.35	8.71	720	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,000	210	72	4.8	2.1	1,2-DCA=2.4
11/4/2003		49.54	10.52	670	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,000	190	58	3.5	1.7	1,2-DCA=2.3
2/2/2004		53.95	6.11	1,100	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,100	270	64	ND<8.0	2.0	
5/4/2004		52.16	7.90	450	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	480	55	29	1.8	ND<1.0	
8/3/2004		50.44	9.62	160	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	180	ND<22	6.9	ND<1.0	ND<1.0	
11/10/2004		51.64	8.42	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	30	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		54.72	5.34	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		54.73	5.33	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/2/2005		53.94	6.12	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		52.07	7.99	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW7	59.80	Screened Interval = 10-15 feet bgs														
8/4/2000		53.63	6.17	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		53.60	6.20	3,700	190	ND<170	33	2.8	2	67.4	3,000	700	220			
9/8/2000		52.97	6.83	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.35	7.45	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.50	6.30	910	110	ND<170	2.2	ND<1.0	1.2	1.9	1,200	280	90	4.2	ND<2.5	
12/12/2000		53.78	6.02	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.13	5.67	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		54.39	5.41	1,700	170	280	5.2	ND<5.0	ND<5.0	ND<5.0	1,800	440	160	ND<10	ND<10	
3/12/2001		54.73	5.07	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.61	5.19	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		54.39	5.41	1,100	160	ND<200	6.6	ND<5.0	ND<5.0	ND<5.0	2,000	450	200	ND<5.0	ND<5.0	
6/8/2001		54.17	5.63	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		54.00	5.80	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		53.70	6.10	1,400	ND<50	ND<170	8.3	ND<5.0	ND<5.0	ND<5.0	2,100	670	180	ND<10	ND<10	
9/17/2001		53.39	6.41	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.85	6.95	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		52.63	7.17	1,400	ND<50	ND<170	ND<1.5	ND<1.5	ND<1.5	ND<1.5	1,800	430	150	4.6	ND<3.0	
2/5/2002		55.40	4.40	1,500	ND<50	---	31	ND<1.5	ND<1.5	ND<1.5	2,000	750	190	7.9	3.8	1,2-DCA=3.3
5/9/2002		54.88	4.92	1,100	ND<50	ND<170	51	ND<2.5	ND<2.5	ND<2.5	1,800	280	96	ND<5.0	ND<5.0	
8/15/2002		53.06	6.74	1,500	53	ND<170	4.6	ND<1.5	ND<1.5	2.6	1,500	290	110	5.3	ND<3.0	
12/20/2002		55.83	3.97	750	ND<50	ND<170	0.64	ND<0.50	ND<0.50	0.57	1,200	510	78	3.4	ND<1.0	1,2-DCA=1.3
2/11/2003		55.32	4.48	1,400	ND<50	ND<170	36	0.69	0.74	0.61	1,300	550	78	ND<8.0	ND<4.0	1,2-DCA=2.8
5/13/2003		53.78	6.02	620	ND<50	ND<170	18	0.64	0.79	1.21	1,000	190	64	3.4	1.9	1,2-DCA=2.7
8/14/2003		52.90	6.90	830	54	ND<170	1.4	ND<0.50	ND<0.50	ND<0.50	1,100	250	85	4.0	1.1	
11/4/2003		52.04	7.76	570	ND<50	ND<170	1.4	ND<0.50	ND<0.50	ND<0.50	780	140	48	2.7	ND<1.0	1,2-DCA=1.2
2/2/2004		55.82	3.98	1,300	50	ND<170	7.6	ND<0.50	0.56	ND<0.50	1,200	240	69	4.6	ND<4.5	1,2-DCA=2.2
5/4/2004		54.43	5.37	800	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	870	ND<50	67	2.8	ND<1.0	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW7 Continued																
8/3/2004		52.23	7.57	710	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	720	42	48	2.4	ND<1.0	
11/10/2004		53.67	6.13	ND<50	56	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		55.24	4.56	140	ND<50	ND<170	0.66	ND<0.50	ND<0.50	ND<0.50	130	ND<10	5.3	ND<1.0	ND<1.0	
5/3/2005		55.13	4.67	150	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	ND<20	7.3	ND<1.0	ND<1.0	
8/2/2005		53.78	6.02	170	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150	ND<30	5.7	ND<1.0	ND<1.0	1,2-DCA=1.1
11/1/2005		52.68	7.12	230	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	280	ND<65	12	1.3	ND<1.0	All ND<1.0-3.0
MW8	59.58	Screened Interval = 15-20 feet bgs														
8/4/2000		52.05	7.53	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		50.81	8.77	4,800	98	ND<170	ND<10	ND<10	ND<10	ND<10	11,000	2,100	36	54		1,2 DCA=42
9/8/2000		51.60	7.98	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		51.17	8.41	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		52.58	7.00	3,200	65	ND<170	ND<4.0	ND<4.0	ND<4.0	ND<4.0	7,800	1,300	50	56	ND<10	
12/12/2000		52.82	6.76	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		52.77	6.81	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		53.29	6.29	5,700	ND<50	ND<170	ND<10	ND<10	ND<10	ND<10	8,000	1,100	61	47	ND<20	
3/12/2001		53.66	5.92	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		53.26	6.32	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		52.85	6.73	4,600	ND<50	ND<200	ND<6.3	ND<6.3	ND<6.3	ND<6.3	6,900	620	83	35	ND<13	
6/8/2001		52.70	6.88	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		52.58	7.00	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		51.61	7.97	4,700	ND<50	ND<170	ND<13	ND<13	ND<13	ND<13	7,600	ND<250	120	41	ND<25	
9/17/2001		50.80	8.78	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		50.28	9.30	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		50.68	8.90	4,800	ND<50	ND<170	ND<10	ND<10	ND<10	ND<10	7,000	920	98	37	ND<20	
2/5/2002		53.62	5.96	2,600	ND<50	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6,200	860	170	37	ND<10	
5/9/2002		53.05	6.53	2,800	ND<50	ND<170	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6,500	850	130	24	ND<10	
8/15/2002		52.25	7.33	4,400	ND<50	ND<170	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5,600	820	160	33	ND<10	
12/20/2002		53.52	6.06	3,100	ND<50	ND<170	0.63	ND<0.50	ND<0.50	0.62	5,700	ND<6000	160	31	4	1,2-DCA=3.0
2/11/2003		54.41	5.17	4,500	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6,200	1,800	110	29.0	4.0	1,2-DCA=3.7
5/13/2003		53.56	6.02	950	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,500	1,100	140	20.0	2.5	1,2-DCA=3.0
8/14/2003		50.53	9.05	1,300	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,600	1,100	150	24.0	3.2	1,2-DCA=2.2
11/4/2003		50.70	8.88	1,500	ND<50	ND<170	1.5	ND<0.50	0.51	ND<0.50	4,700	1,100	130	21	2.9	1,2-DCA=2.3
2/2/2004		53.82	5.76	4,200	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,700	1,000	150	21	3.1	1,2-DCA=3.0
5/4/2004		52.56	7.02	2,900	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,300	1,100	140	20	3.1	
8/3/2004		49.60	9.98	3,000	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,100	920	110	17	2.7	
11/10/2004		49.26	10.32	3,100	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,500	810	110	14	ND<4.0	
2/1/2005		49.74	9.84	2,600	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,500	640	130	14	ND<4.0	1,2-DCA=2.9
5/3/2005		49.24	10.34	1,900	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,300	890	ND<200	12	2.2	1,2-DCA=1.8
8/2/2005		48.40	11.18	1,800	ND<50	ND<170	0.88	ND<0.50	ND<0.50	ND<0.50	2,500	450	97	9.1	ND<3.0	1,2-DCA=1.9
11/1/2005		50.93	8.65	1,200	110	ND<170	1.3	ND<0.50	ND<0.50	ND<0.50	3,000	420	80	9.8	2.1	All ND<1.0-3.0
MW9	59.35	Screened Interval = 12.5-15.5 feet bgs														
11/6/2001		46.34	13.01	160	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<5.0	17	ND<1.0	ND<1.0	
2/5/2002		52.11	7.24	92	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<5.0	20	ND<1.0	ND<1.0	
5/9/2002		49.62	9.73	88	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	180	ND<5.0	13	ND<1.0	ND<1.0	
8/15/2002		49.90	9.45	100	ND<50	ND<170	ND<0.50	ND<0.50	0.69	1.8	81	ND<5.0	7.1	ND<1.0	ND<1.0	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW9 Continued																
12/20/2002		51.46	7.89	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	0.53	30	ND<20	1.8	ND<1.0	ND<1.0	
2/11/2003		53.66	5.69	51	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	29	ND<20	1.8	ND<1.0	ND<1.0	
5/13/2003		52.43	6.92	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<20	ND<1.0	ND<1.0	ND<1.0	
8/14/2003		49.68	9.67	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	ND<20	1.1	ND<1.0	ND<1.0	
11/4/2003		49.12	10.23	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	ND<20	1.5	ND<1.0	ND<1.0	
2/2/2004		52.79	6.56	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/4/2004		51.06	8.29	76	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.8	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/3/2004		49.48	9.87	65	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.1	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		50.28	9.07	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.8	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		51.69	7.66	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.3	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		51.29	8.06	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.1	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/2/2005		50.11	9.24	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		49.14	10.21	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.8	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW10	59.19	Screened Interval = 12-15 feet bgs														
11/6/2001		48.64	10.55	61	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	82	17	2.9	ND<1.0	ND<1.0	
2/5/2002		52.12	7.07	55	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	47	11	ND<1.0	ND<1.0	ND<1.0	
5/9/2002		51.17	8.02	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	34	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
8/15/2002		48.04	11.15	87	ND<50	ND<170	ND<0.50	ND<0.50	1.3	3.4	41	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
12/20/2002		51.68	7.51	53	190	2,800	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63	ND<20	2.2	ND<1.0	ND<1.0	
2/11/2003		45.71	13.48	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	44	ND<20	1.4	ND<1.0	ND<1.0	
5/13/2003		48.49	10.70	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	ND<20	ND<1.0	ND<1.0	ND<1.0	
8/14/2003		47.55	11.64	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	38	ND<20	1.9	ND<1.0	ND<1.0	
11/4/2003		46.54	12.65	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	45	ND<20	2.3	ND<1.0	ND<1.0	
2/2/2004		48.11	11.08	86	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	52	ND<20	2.5	ND<1.0	ND<1.0	
5/4/2004		47.69	11.50	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/3/2004		46.27	12.92	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		46.58	12.61	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	ND<10	1.4	ND<1.0	ND<1.0	
2/1/2005		50.36	8.83	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		49.79	9.40	ND<50	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/2/2005		49.01	10.18	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		49.35	9.84	99	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.1	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW11	59.21	Screened Interval = 12.5-15.5 feet bgs														
11/6/2001		47.85	11.36	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<50	ND<1.0	ND<1.0	ND<1.0	
2/5/2002		50.97	8.24	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.3	ND<50	ND<1.0	ND<1.0	ND<1.0	
5/9/2002		50.45	8.76	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	ND<50	ND<1.0	ND<1.0	ND<1.0	
8/15/2002		48.00	11.21	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	0.52	1.2	0.9	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
12/20/2002		51.92	7.29	ND<50	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	ND<20	ND<1.0	ND<1.0	ND<1.0	
2/11/2003		50.79	8.42	ND<50	ND<50	230	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.8	ND<20	ND<1.0	ND<1.0	ND<1.0	
5/13/2003		51.24	7.97	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	
8/14/2003		48.11	11.10	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	ND<20	ND<1.0	ND<1.0	ND<1.0	
11/4/2003		45.99	13.22	ND<50	ND<50	270	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.2	ND<20	ND<1.0	ND<1.0	ND<1.0	
2/2/2004		51.18	8.03	52	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/4/2004		50.04	9.17	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/3/2004		47.41	11.80	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		49.59	9.62	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		50.38	8.83	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.7	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		49.76	9.45	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
8/2/2005		48.76	10.45	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		47.51	11.70	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW12	59.09	Screened Interval = 12.5-15 feet bgs														
11/6/2001		48.05	11.04	1,700	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,400	250	51	11	ND<1.0	
2/5/2002	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	
5/9/2002		50.67	8.42	1,300	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,900	110	75	6.3	ND<5.0	
8/15/2002		48.97	10.12	1,800	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,300	96	92	9.4	ND<5.0	
12/20/2002		52.42	6.67	1,800	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2,600	430	94	9.0	3.3	
2/11/2003	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	
5/13/2003		51.41	7.68	470	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,400	94	72	5.0	1.7	
8/14/2003		48.71	10.38	740	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,600	76	82	6.6	2.3	
11/4/2003		48.20	10.89	840	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,600	ND<50	68	4.7	1.9	
2/2/2004		51.69	7.40	1,500	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,700	ND<60	72	5.6	2.3	
5/4/2004		50.28	8.81	1,200	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,400	ND<45	69	4.5	1.8	
8/3/2004		48.34	10.75	2,100	76	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,300	110	96	9.5	2.7	
11/10/2004		49.78	9.31	1,200	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,200	45	47	3.4	1.6	
2/1/2005		50.58	8.51	990	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	950	56	40	3.4	1.5	
5/3/2005		49.98	9.11	640	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	720	ND<15	34	3.2	1.6	
8/2/2005		49.07	10.02	750	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	790	ND<10	32	2.6	1.3	
11/1/2005		48.06	11.03	340	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	580	ND<10	21	1.8	1.1	All ND<1.0-3.0
MW13	58.86	Screened Interval = 12.5-15 feet bgs														
11/6/2001		48.82	10.04	2,000	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,800	330	110	9.8	ND<5.0	
2/5/2002		51.58	7.28	1,300	ND<50	---	ND<1.5	ND<1.5	ND<1.5	ND<1.5	2,800	370	160	11.0	4.0	
5/9/2002	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	
8/15/2002		51.01	7.85	1,000	ND<50	ND<170	ND<1.0	ND<1.0	ND<1.0	1.3	1,200	51	70	5.7	ND<2.0	
12/20/2002		53.68	5.18	ND<50	54	570	ND<0.50	1.0	ND<0.50	ND<0.50	38	ND<20	1.8	ND<1.0	ND<1.0	
2/11/2003	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	
5/13/2003		52.06	6.80	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	ND<20	1.9	ND<1.0	ND<1.0	
8/14/2003		49.48	9.38	160	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	260	ND<20	13	ND<1.0	ND<1.0	
11/4/2003		49.12	9.74	170	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<20	13	ND<1.0	ND<1.0	
2/2/2004		52.09	6.77	330	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	360	ND<20	13	ND<2.5	ND<1.0	
5/4/2004		50.89	7.97	270	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	280	ND<10	12	ND<2.5	ND<1.0	
8/3/2004		49.13	9.73	960	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	820	ND<100	34	2.2	1.3	
11/10/2004		50.52	8.34	400	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	370	ND<25	16	ND<2.0	ND<1.0	
2/1/2005		51.10	7.76	270	ND<50	270	ND<0.50	ND<0.50	ND<0.50	ND<0.50	260	ND<40	9.5	ND<1.0	ND<1.0	
5/3/2005		50.60	8.26	63	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63	ND<10	1.7	ND<1.0	ND<1.0	
8/2/2005		49.85	9.01	200	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	230	ND<10	7.1	ND<1.0	ND<1.0	
11/1/2005		48.92	9.94	250	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	390	ND<10	14	ND<1.0	ND<1.0	All ND<1.0-3.0
MW14	61.04	Screened Interval = 5-10 feet bgs														
11/10/2004		53.89	7.15	1,100	150	ND<170	0.62	ND<0.50	1.2	ND<0.50	ND<30	ND<20	1.7	ND<1.0	ND<1.0	
2/1/2005		55.76	5.28	580	120	ND<170	0.77	ND<0.50	0.65	ND<0.50	ND<15	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		55.70	5.34	1,000	140	ND<170	1.3	0.55	1.3	0.59	7.9	ND<10	1.2	ND<1.0	ND<1.0	
8/2/2005		54.37	6.67	880	160	ND<170	0.93	ND<0.50	1.1	ND<0.50	ND<14	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/1/2005		53.57	7.47	920	92	ND<190	0.88	ND<0.50	1.3	ND<0.50	6.6	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW15	60.80	Screened Interval = 5-10 feet bgs														
11/10/2004		54.37	6.43	1,600	90	ND<170	97	2.7	15	6.3	70	ND<40	2.6	ND<1.0	ND<1.0	
2/1/2005		56.34	4.46	1,100	120	ND<170	40	1.4	8.9	3.4	ND<30	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		55.84	4.96	2,200	170	ND<170	75	2.4	15	5.74	ND<70	ND<20	1.9	ND<1.0	ND<1.0	
8/2/2005		54.52	6.28	2,100	250	ND<170	120	3.5	23	7.5	ND<100	ND<30	2.4	ND<1.0	ND<1.0	
11/1/2005		53.15	7.65	2,500	99	ND<210	180	4.4	35	12	ND<120	ND<28	2.6	ND<1.0	ND<1.0	All ND<1.0-3.0

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW16	60.24	**Screened Interval = 5-10 feet bgs**														
11/10/2004		**54.45**	**5.79**	**3,900**	**200**	ND<170	**480**	**13**	**22**	**31.9**	**500**	**61**	**12**	**5.2**	ND<1.0	
2/1/2005		**55.75**	**4.49**	**5,600**	**340**	ND<170	**580**	**16**	**31**	**40.8**	**490**	**25**	**13**	**5.5**	ND<1.0	
5/3/2005		**55.69**	**4.55**	**7,900**	**370**	ND<170	**580**	**15**	**35**	**33.7**	**470**	**300**	**14**	**4.3**	ND<1.0	
8/2/2005		**54.12**	**6.12**	**4,600**	**570**	**320**	**680**	**14**	**22**	**33.6**	**360**	**220**	**8**	**3.9**	ND<1.0	
11/1/2005		**53.21**	**7.03**	**6,100**	**860**	**1,800**	**1,000**	**16**	**27**	**36**	**430**	**280**	**11**	**4.5**	ND<1.0	All ND<1.0-3.0
MW17S	56.96	**Screened Interval = 22.5-24.5 feet bgs**														
11/10/2004		**35.70**	**21.26**	**64**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**33**	ND<35	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**34.71**	**22.25**	**180**	**70**	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**180**	ND<50	ND<1.0	ND<1.0	**1.2**	
5/3/2005		**35.13**	**21.83**	**320**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**300**	ND<15	**2.1**	**1.7**	**1.8**	
8/2/2005		**34.51**	**22.45**	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**13**	ND<10	ND<1.0	ND<1.0	ND<1.0	**1,2-DCA=1.1**
11/1/2005		**34.76**	**22.20**	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.1**	ND<10	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0
MW17D	56.95	**Screened Interval = 26-28 feet bgs**														
11/10/2004		**32.42**	**24.53**	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.0**	ND<20	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**32.76**	**24.19**	**120**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**110**	**55**	ND<1.0	ND<1.0	**2.0**	
5/3/2005		**31.95**	**25.00**	**130**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**100**	ND<20	ND<1.0	ND<1.0	**2.0**	
8/2/2005		**30.50**	**26.45**	**130**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**50**	ND<10	ND<1.0	ND<1.0	ND<1.0	**1,2-DCA=1.1**
11/1/2005		**30.69**	**26.26**	**92**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**64**	ND<35	ND<1.0	ND<1.0	ND<1.0	All ND<1.0-3.0

NOTES:
Bold results indicate analyte detection
--- sample not analyzed for parameter
ND<50 - non-detect at reporting limits shown
TPHg - total petroleum hydrocarbons as gasoline
TPHd - total petroleum hydrocarbons as diesel
TPHmo - total petroleum hydrocarbons as motor oil
Total Xylenes = sum of m,p-xylene and o-xylene
MTBE - methyl tertiary butyl ether
TBA - tertiary butyl alcohol
TAME - tertiary amyl methyl ether
ETBE - ethyl tertiary butyl ether
DIPE - di-isopropyl ether
Other Analytes Include: 1,2-dichloroethane (1,2 DCA);1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; Ethylene dibromide (EDB); Methanol, Ethanol

Attachment 1

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.25
Time on site: 7:50
Time off site: 1:25
Mileage: 36

WELL No.:	MW11		MW10		MW9		MW3		MW6	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15.5		12.5-15.5		12-15		5-12		12-20	
DEPTH TO WATER (ft)	11.20		9.84		10.21		7.31		7.99	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH							8.4	6.5	7.1	6.4
TEMP (°C)							16.2	19.2	15.7	17.8
Ecw (µmohs)							358	248	150	137
ORP (mV)							26	-13	-44	19
DO (mg/L)							0.98	0.47	3.34	1.92
OTHER (units)										
PURGE: TIME							8:32	8:46	9:18	9:28
METHOD (DHP/CB/B)							DHP		DHP	
RATE (Lpm)							0.16		0.18	
VOLUME (L)							2.25		1.75	
COLOR							LT. BROWN TINT	CLEAR	LT. BROWN CLOUDY	CLOUDY
ODOR							MED. SULFUR/FUEL/ORGANIC		LIGHT ORGANIC	
INTAKE DEPTH (FEET)							10.0		16.0	
SAMPLE: TIME							8:48		9:30	
METHOD (DHP/CB/B)							DHP		DHP	
ANALYTES	8260 List 5		8260 List 5		8260 List 5		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)							1.05		2.55	
REMARKS										
WELL CONDITION							TWO BOLT HOLE STRIPPED		good	
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

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Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.25
Time on site: 7:50
Time off site: 1:25
Mileage: 36

WELL No.:	MW12		MW7		MW13		MW1		MW4	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15		10 - 15		12.5-15		6-10		5-10	
DEPTH TO WATER (ft)	11.03		7.12		9.94		7.24		7.45	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH			6.3	6.1			6.4	6.0	6.3	6.1
TEMP (°C)			16.1	17.5			17.6	19.7	16.2	17.9
Ecw (µmohs)			219	206			196	171	212	202
ORP (mV)			40	27			-20	-19	20	7
DO (mg/L)			1.16	0.49			0.84	0.38	1.14	0.36
OTHER (units)			—				—		—	
PURGE: TIME			9:49	9:57			10:40	10:48	10:14	10:22
METHOD (DHP/CB/B)			DHP				DHP		DHP	
RATE (Lpm)			0.19				0.19		0.18	
VOLUME (L)			1.50				1.50		1.40	
COLOR			CLEAR	CLEAR			CLEAR	LT. GREY TINT	CLEAR	SLIGHT GREY TINT
ODOR			LIGHT SULFUR/SWEET				LIGHT RUBBER		MED. RUBBER	
INTAKE DEPTH (FEET)			12.0				9.5		9.5	
SAMPLE: TIME			9:59				10:50		10:24	
METHOD (DHP/CB/B)			DHP				DHP		DHP	
ANALYTES	8260 List 5		8260 List 5; TPHd/mo w/SGC		8260 List 5		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)			1.57				0.55		0.70	
REMARKS			—				—		—	
WELL CONDITION			good				good		good	
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.25
Time on site: 7:50
Time off site: 1:25
Mileage: 36

WELL No.:	MW14		MW15		MW16		MW17S		MW17D	
DIAMETER (in)	1.50		1.50		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		22.5-24.5		26-28	
DEPTH TO WATER (ft)	7.47		7.65		7.03		22.20		26.26	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.3	6.3								
TEMP (°C)	18.5	18.4 ↓								
Ecw (µmohs)	215	213 ↓								
ORP (mV)	-15	-30 ↓								
DO (mg/L)	1.17	0.88 ↓								
OTHER (units)	—		—		—					
PURGE: TIME	11:17	11:21			—	—				
METHOD (DHP/CB/B)	DHP				DHP					
RATE (Lpm)	0.13				—					
VOLUME (L)	.50				—					
COLOR	CLEAR	CLOUDY			MED. GREY SEDIMENT	LT. GREY TURBID				
ODOR	MED. SKUNKY/RUBBER		LIGHT SHOE STORE		MED. SHOE STORE					
INTAKE DEPTH (FEET)	9.5		9.75		9.75					
SAMPLE: TIME	11:23		11:45		12:20					
METHOD (DHP/CB/B)	DHP		DHP		DHP					
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5		8260 List 5	
TOTAL DRAWDOWN (FEET)	2.15		2.22		2.42					
REMARKS	UNABLE TO COMPLETE INTRINSICS - WELL NOT RECOVERING		PULLED SAMPLE FIRST - WELL NOT		PULLED SAMPLE + FD FIRST - WELL NOT					
WELL CONDITION	good	LIMITED VOLUME FOR TPHd	good	RECOVERING NO INTRINSICS LIMITED TPHd	good	RECOVERING NO INTRINSICS LIMITED TPHd VOLUME				
WASTE DRUMS			SAMPLE							

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/1.50
Travel time: 1.25
Time on site: 7:50
Time off site: 1:25
Mileage: 36

WELL No.:	MW2		MW8		MW5					
DIAMETER (in)	2.00		2.00		2.00					
SCREENED INTERVAL (ft)	5-10		15-20		5-10					
DEPTH TO WATER (ft)	7.87		8.65		7.77					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH			6.7	6.3						
TEMP (°C)			17.9	18.5						
Ecw (µmohs)			204	196						
ORP (mV)			9	10						
DO (mg/L)			1.78	0.45						
OTHER (units)			—							
PURGE: TIME			12:43	12:51						
METHOD (DHP/CB/B)			DHP							
RATE (Lpm)			0.19							
VOLUME (L)			1.50							
COLOR			CLEAR	CLEAR	GREY TURBID	→				
ODOR			MED. SHOE STORE		VERY STRONG FUEL					
INTAKE DEPTH (FEET)			17.0		—					
SAMPLE: TIME			12:53		1:02					
METHOD (DHP/CB/B)			DHP		3/4" B					
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC					
TOTAL DRAWDOWN (FEET)			1.45		—					
REMARKS			—		T+P = NO FP					
WELL CONDITION			good		good					
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: FORTUNA SHELL - HPI

Project No.: 4563.01

Tech: SJD

Date: 11-1-05

WELL ID:	METER ACCURACY RANGE				
MW3	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
8:34	7.8	17.0	318	28	0.94
8:36	7.3	18.1	298	22	0.80
8:38	6.9	18.6	279	10	0.65
8:40	6.7	19.1	267	-2	0.51
8:42	6.5	19.0	258	-8	0.49
8:44	6.5	19.2	253	-12	0.49
8:46	6.5	19.2	248	-13	0.47

WELL ID: MW6

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:20	6.8	16.5	147	-10	2.73
9:22	6.6	16.9	143	3	2.61
9:24	6.5	17.2	141	12	2.30
9:26	6.4	17.6	140	18	2.07
9:28	6.4	17.8	137	19	1.92

WELL ID: MW7

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:51	6.1	16.8	214	35	0.70
9:53	6.1	17.2	208	30	0.54
9:55	6.1	17.4	208	28	0.50
9:57	6.1	17.5	206	27	0.49

WELL ID: MW4

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:16	6.2	17.1	208	13	0.53
10:18	6.1	17.5	206	10	0.42
10:20	6.1	17.8	204	8	0.38
10:22	6.1	17.9	202	7	0.36

WELL ID: MW1

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:42	6.3	18.3	190	-26	0.86
10:44	6.2	19.2	182	-25	0.47
10:46	6.1	19.5	174	-20	0.40
10:48	6.0	19.7	171	-19	0.38

WELL ID: MW14

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:19	6.3	18.6	215	-24	0.92
11:21	6.3	18.4	213	-30	0.88

UNABLE TO COMPLETE - WELL NOT RECOVERING

LACO ASSOCIATES
CONSULTING ENGINEERS

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TEL 707.443.5054
FAX 707.443.0553

Project Name: FORTUNA SHELL - HPI

Project No.: 4563.01

Tech: SJD

Date: 11-1-05

WELL ID:	METER ACCURACY RANGE				
MW8	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:45	6.5	17.9	201	11	1.06
12:47	6.4	18.1	199	12	0.77
12:49	6.3	18.4	198	11	0.51
12:51	6.3	18.5	196	10	0.45

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

LACO ASSOCIATES
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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD/RLD
Mob/Demob time: .50/.25
Travel time: .75
Time on site: 7:30
Time off site: 1:25
Mileage: 36

WELL No.:	MW11		MW10		MW9		MW3		MW6	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15.5		12.5-15.5		12-15		5-12		12-20	
DEPTH TO WATER (ft)	11.70		9.54		10.21					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.9	6.3	7.6	6.9	7.2	7.1				
TEMP (°C)	15.4	16.2	16.7	17.8	16.1	16.0				
Ecw (µmohs)	472	443	355	343	430	413				
ORP (mV)	ur	-91	-79	-86	ur	ur				
DO (mg/L)	0.81	0.97	0.87	1.32	1.99	0.60				
OTHER (units)	—		—		—					
PURGE: TIME	8:31	8:39	9:29	9:35	9:51	9:57				
METHOD (DHP/CB/B)	DHP		DHP		DHP					
RATE (Lpm)	0.25		0.25		0.17					
VOLUME (L)	2.0		1.5		1.0					
COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR				
ODOR	MED SULFUR		LIGHT SULFUR LIGHT RUBBER		MED SULFUR LIGHT RUBBER					
INTAKE DEPTH (FEET)	13.0		13.0		13.5					
SAMPLE: TIME	8:41		9:37		9:59					
METHOD (DHP/CB/B)	DHP		DHP		DHP					
ANALYTES	8260 List 5		8260 List 5		8260 List 5		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)	1.47		1.91		1.72					
REMARKS	—		—		—					
WELL CONDITION	GOOD		GOOD		GOOD					
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD / RLD
Mob/Demob time: .50/.25
Travel time: .75
Time on site: 7:30
Time off site: 1:25
Mileage: 36

WELL No.:	MW12		MW7		MW13		MW1		MW4	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15		10 - 15		12.5-15		6-10		5-10	
DEPTH TO WATER (ft)	11.03				9.99					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.2	6.1			6.9	6.8				
TEMP (°C)	17.4	18.5			18.2	18.3				
Ecw (µmohs)	536	523			554	557				
ORP (mV)	-70	-76			uv	uv				
DO (mg/L)	0.67	0.86			0.81	1.62				
OTHER (units)	—				—					
PURGE: TIME	10:21	10:29			10:49	10:55				
METHOD (DHP/CB/B)	DHP				DHP					
RATE (Lpm)	0.19				0.17					
VOLUME (L)	1.5				1.0					
COLOR	CLEAR	CLEAR			CLEAR	CLEAR				
ODOR	LIGHT SULFUR				LIGHT SULFUR	LIGHT SWEET				
INTAKE DEPTH (FEET)	13.5				13.5					
SAMPLE: TIME	10:31				10:57					
METHOD (DHP/CB/B)	DHP				DHP					
ANALYTES	8260 List 5		8260 List 5; TPHd/mo w/SGC		8260 List 5		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)	0.49				1.38					
REMARKS	—				—					
WELL CONDITION	GOOD				GOOD					
WASTE DRUMS										

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Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: ~~SJD~~ / RLD
Mob/Demob time: .50/1.25
Travel time: .75
Time on site: 7:30
Time off site: 1:25
Mileage: 36

WELL No.:	MW14	MW15	MW16	MW17S	MW17D
DIAMETER (in)	1.50	1.50	1.50	1.50	1.50
SCREENED INTERVAL (ft)	5-10	5-10	5-10	22.5-24.5	26-28
DEPTH TO WATER (ft)				22.20	26.26

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

		MW14 INITIAL	MW14 FINAL	MW15 INITIAL	MW15 FINAL	MW16 INITIAL	MW16 FINAL	MW17S INITIAL	MW17S FINAL	MW17D INITIAL	MW17D FINAL
FIELD INTRINSICS	pH										
	TEMP (°C)										
	Ecw (µmohs)										
	ORP (mV)										
	DO (mg/L)										
	OTHER (units)										
PURGE	TIME										
	METHOD (DHP/CB/B)										
	RATE (Lpm)										
	VOLUME (L)										
	COLOR										
	ODOR										
	INTAKE DEPTH (FEET)										
SAMPLE	TIME							12:35		12:25	
	METHOD (DHP/CB/B)							3/4" B		3/4" B	
	ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5		8260 List 5	
	TOTAL DRAWDOWN (FEET)							—			
	REMARKS							—			
WELL CONDITION								GOOD		GOOD	
WASTE DRUMS											

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 11-1-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD / RLD
Mob/Demob time: .50/.25
Travel time: .75
Time on site: 7:30
Time off site: 1:25
Mileage: 36

WELL No.:	MW2		MW8		MW5					
DIAMETER (in)	2.00		2.00		2.00					
SCREENED INTERVAL (ft)	5-10		15-20		5-10					
DEPTH TO WATER (ft)	7.07									
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING — FIELD INTRINSICS: pH	6.5	6.3								
TEMP (°C)	18.3	18.7								
Ecw (µmohs)	588	400								
ORP (mV)	-99	low								
DO (mg/L)	0.45	0.91								
OTHER (units)	—									
PURGE: TIME	11:21	11:29								
METHOD (DHP/CB/B)	DHP									
RATE (Lpm)	0.125									
VOLUME (L)	1.0									
COLOR	CLEAR	CLEAR								
ODOR	STRONG FUEL MED SULFUR									
INTAKE DEPTH (FEET)	8.0									
SAMPLE: TIME	11:31									
METHOD (DHP/CB/B)	DHP									
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC					
TOTAL DRAWDOWN (FEET)	0.86									
REMARKS	—									
WELL CONDITION	GOOD									
WASTE DRUMS										

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Tech: RLD

Project Name: FORTUNA SHELL - HPI

Date: 11-1-05

Project No.: 4563.01

METER ACCURACY RANGE

	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L

WELL ID: MW11

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
8:33	6.5	15.1	456	-96	1.54
8:35	6.4	15.6	449	-94	1.53
8:37	6.3	16.2	445	-92	1.07
8:39	6.3	16.2	443	-91	0.97

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:31	7.1	16.9	344	-82	1.44
9:33	6.9	17.7	342	-85	1.40
9:35	6.9	17.8	343	-86	1.32

WELL ID: MW9

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:53	7.1	16.2	414	ur	0.73
9:55	7.1	16.2	413	ur	0.63
9:57	7.1	16.0	413	ur	0.60

WELL ID: MW12

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:23	6.1	17.9	530	-68	1.79
10:25	6.1	18.6	535	-73	1.22
10:27	6.1	18.5	525	-75	0.89
10:29	6.1	18.5	523	-76	0.86

WELL ID: MW13

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:51	6.9	18.1	531	ur	1.45
10:53	6.8	18.2	559	ur	1.54
10:55	6.8	18.3	557	ur	1.62

WELL ID: MW2

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:23	6.4	18.6	385	ur	1.20
11:25	6.4	18.6	395	ur	1.17
11:27	6.3	18.7	399	ur	0.98
11:29	6.3	18.7	400	ur	0.91

LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: FORTUNA SHELL - HPI

Project No.: 4563.01

Tech: SJD/RLD

Date: 11-1-05

WELL ID: MW1		WELL ID: MW2		WELL ID: MW3		WELL ID: MW4		WELL ID: MW5		WELL ID: MW6	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:23	7.24	8:26	7.01	8:06	7.31	8:08	7.45	12:50	7.77	8:10	7.99
10:37	7.24	11:26	7.01	8:29	7.31	10:10	7.45	TH	P	9:15	7.99

WELL ID: MW7		WELL ID: MW8		WELL ID: MW9		WELL ID: MW10		WELL ID: MW11		WELL ID: MW12	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:12	7.12	8:20	8.65	7:52	10.24	7:55	9.84	7:57	11.75	7:59	11.07
9:45	7.12	12:39	8.65	8:17	10.21	8:19	9.84	8:22	11.70	8:24	11.04
				9:24	10.21			8:28	11.70	10:16	11.03

WELL ID: MW13		WELL ID: MW14		WELL ID: MW15		WELL ID: MW16		WELL ID: MW17S		WELL ID: MW17D	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:03	9.94	8:14	7.47	8:16	7.65	8:18	7.03	8:10	22.29	8:12	26.26
10:45	9.94	11:14	7.47	11:40	7.65	12:13	7.03	12:17	22.29	12:20	26.26

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6811

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501

Phone:
Copies of Report to: LACO ; Chris Watt

Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE --)
	4563-MW1-W	11-1-05	AM	GW	3	1
	4563-MW2-W	↓	↓	↓	3	1
	4563-MW3-W				3	1
	4563-MW4-W				3	1
	4563-MW5-W				3	1
	4563-MW6-W				3	1
	4563-MW7-W				3	1
	4563-MW8-W				3	1
	4563-MW9-W				3	
	4563-MW10-W	↓	PM	↓	3	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone:
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: TASK 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE ---)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4563-MW11-W	11-1-05	AM	GW	3		GEOTRACKER
	4563-MW12-W				3		
	4563-MW13-W				3		
	4563-MW14-W				3	1	LIMITED VOLUME TPHd/mo w/SGC
	4563-MW15-W				3	1	LIMITED VOLUME TPHd/mo w/SGC
	4563-MW16-W				3	1	LIMITED VOLUME TPHd/m w/SGC
	4563- MW17S-W				3		
	4563-MW17D-W				3		
	4563-QCMB-W				3		
	4563-QCFD-W		PM		3		

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
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707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone:
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

PROJECT INFORMATION
Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: TASK 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS: 8260 List 5	ANALYSIS: TPHd/mo w/SGC
	4563-QCTB-W	11-1-05	Am/pm	GW	b	9	1	7

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 2

ATTACHMENT 1: KEY TO ABBREVIATIONS
Fortuna Shell; 809 Main St., Fortuna, California
LACO No. 4563.01; LOP No. 12672

KEY TO ABBREVIATIONS	
Alk	-- Alkalinity
BTEX	-- Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
CO_2	-- Carbon dioxide
COC	-- Chain of custody
Cr	-- Chromium
DHP	-- Down-hole-pump (submersible pump)
DIPE	-- Di-isopropyl Ether
Dis	-- Dissolved
DO	-- Dissolved Oxygen
DTW	-- Depth-to-Water
ECw	-- Electrical Conductivity in water
ETBE	-- Ethyl Tertiary Butyl Ether
Fe	-- Iron
FP	-- Free Product
Mn	-- Manganese
MTBE	-- Methyl Tertiary Butyl Ether
N	-- Nitrogen
ND<50	-- non-detect at reporting limits shown
NO_3	-- Nitrate
NOT ACTIVE	-- Sample not analyzed for parameter during current sampling event
ORP	-- Oxidation Reduction Potential
P	-- Phosphorous
PCP/TCP	-- penta- tetra- tri- chlorophenols
pH	-- Potential of hydrogen
SGC	-- Silica gel cleanup
SO_4	-- Sulfate
T	-- Temperature
T&P	-- Tape and Paste
TAME	-- Tertiary Amyl Methyl Ether
TBA	-- Tetiary Butyl Alcohol
TBF	-- Tertiary Butyl Formate
TIC	-- Total Inorganic Carbon
TOC	-- Total Organic Carbon
Tot	-- Total
TPHd	-- Total Petroluem Hydrocarbons as Diesel
TPHg	-- Total Petroluem Hydrocarbons as Gasoline
TPHk	-- Total Petroluem Hydrocarbons as Kerosene
TPHmo	-- Total Petroluem Hydrocarbons as Motor Oil
TPHs	-- Total Petroluem Hydrocarbons as Solvent
µg/L	-- Micro grams per liter (parts per billion)
---	-- Sample not analyzed for parameter

Attachment 3

NORTH COAST LABORATORIES LTD.

November 22, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Attn: Accounts Payable

RE: 4563.01, FORTUNA SHELL

NOV 23 2005
BY: JR

Order No.: 0511064
Invoice No.: 54365
PO No.: TASK 3031
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4563-MW1-W
01D	4563-MW1-W
02A	4563-MW2-W
02D	4563-MW2-W
03A	4563-MW3-W
03D	4563-MW3-W
04A	4563-MW4-W
04D	4563-MW4-W
05A	4563-MW5-W
05D	4563-MW5-W
06A	4563-MW6-W
06D	4563-MW6-W
07A	4563-MW7-W
07D	4563-MW7-W
08A	4563-MW8-W
08D	4563-MW8-W
09A	4563-MW9-W
10A	4563-MW10-W
11A	4563-MW11-W
12A	4563-MW12-W
13A	4563-MW13-W
14A	4563-MW14-W
14D	4563-MW14-W
15A	4563-MW15-W
15D	4563-MW15-W
16A	4563-MW16-W
16D	4563-MW16-W
17A	4563-MW17S-W
18A	4563-MW17D-W
20A	4563-QCFD-W
21A	4563-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

LMO
DRG
DNL
GH
GEO
HPI
FRB
CJW

File
Project #

REPORT CERTIFIED BY

Laboratory Supervisor(s) | QA Unit | Jesse G. Chaney, Jr. Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. **Date:** *21-Nov-05*

CLIENT: LACO Associates
Project: 4563.01, FORTUNA SHELL
Lab Order: 0511064

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil w/ Silica Gel Cleanup:
Samples 4563-MW2-W, 4563-MW4-W, 4563-MW5-W, 4563-MW14-W, 4563-MW15-W and 4563-MW16-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights.

Samples 4563-MW2-W, 4563-MW3-W, 4563-MW4-W, 4563-MW5-W, 4563-MW8-W, 4563-MW14-W, 4563-MW15-W and 4563-MW16-W contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

The relative percent difference (RPD) for the laboratory control samples was above the upper acceptance limit for diesel. This indicates that the results could be variable.

The motor oil results for samples 4563-MW14-W and 4563-MW15-W were reported as ND with a dilution due to insufficient sample volume.

Gasoline Components/Additives:
Sample 4563-MW10-W does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

The gasoline values for samples 4563-MW1-W and 4563-MW2-W include the reported gasoline components in addition to other peaks in the gasoline range.

The gasoline values for samples 4563-MW4-W, 4563-MW5-W, 4563-MW14-W, 4563-MW15-W, 4563-MW16-W and 4563-QCFD-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

The gasoline value for sample 4563-MW3-W includes the reported gasoline additives in addition to other peaks in the gasoline range.

The gasoline values for samples 4563-MW7-W, 4563-MW8-W, 4563-MW12-W, 4563-MW13-W and 4563-MW17D-W are primarily from the reported gasoline additives.

Some reporting limits were raised for samples 4563-MW2-W, 4563-MW3-W, 4563-MW4-W, 4563-MW5-W, 4563-MW7-W, 4563-MW8-W, 4563-MW13-W, 4563-MW15-W, 4563-MW16-W, 4563-MW17S-W, 4563-MW17D-W and 4563-QCFD-W due to matrix interference.

Sample 4563-MW5-W was diluted and the reporting limits raised additionally due to matrix interference.

The surrogate recoveries were below the lower acceptance limit for samples 4563-MW2-W and 4563-MW5-W. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for benzene. The LCSD recoveries were also above the upper acceptance limits for several other analytes. The reported results for these analytes may be higher than the actual amount present in the samples.

The RPD for the laboratory control samples was above the upper acceptance limit for TBA. This indicates that the results could be variable.

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW1-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-01A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	0.65	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	1.8	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	95.5	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	460	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW1-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-01D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	11/15/05	11/17/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW2-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-02A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	7.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	28	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	4.4	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	24	0.50	µg/L	1.0		11/12/05
m,p-Xylene	17	0.50	µg/L	1.0		11/12/05
o-Xylene	0.68	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	78.7	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	6,100	2,500	µg/L	50		11/11/05

Client Sample ID: 4563-MW2-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-02D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	500	50	µg/L	1.0	11/15/05	11/17/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW3-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-03A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	76	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	22	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	4.7	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	93.0	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	280	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW3-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-03D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	69	50	µg/L	1.0	11/15/05	11/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/16/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW4-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-04A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	8.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	41	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	9.5	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	1.2	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	9.1	0.50	µg/L	1.0		11/12/05
m,p-Xylene	4.3	0.50	µg/L	1.0		11/12/05
o-Xylene	0.68	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	90.2	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	2,300	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW4-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-04D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	240	50	µg/L	1.0	11/15/05	11/17/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW5-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-05A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	400	µg/L	50		11/11/05
Tert-butyl alcohol (TBA)	61	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	630	25	µg/L	50		11/11/05
Tert-amyl methyl ether (TAME)	6.2	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	15	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	97	0.50	µg/L	1.0		11/12/05
m,p-Xylene	78	0.50	µg/L	1.0		11/12/05
o-Xylene	2.0	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	75.6	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	13,000	2,500	µg/L	50		11/11/05

Client Sample ID: 4563-MW5-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-05D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	12,000	1,200	µg/L	25	11/15/05	11/17/05
TPHC Motor Oil	7,100	4,200	µg/L	25	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW6-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-06A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	11	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	94.9	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW6-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-06D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	11/15/05	11/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/16/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW7-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-07A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	280	50	µg/L	50		11/11/05
Tert-butyl alcohol (TBA)	ND	65	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	1.3	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	12	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	99.1	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	230	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW7-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-07D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	11/15/05	11/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/16/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW8-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-08A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	3,000	50	µg/L	50		11/11/05
Tert-butyl alcohol (TBA)	420	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	2.1	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	9.8	1.0	µg/L	1.0		11/12/05
Benzene	1.3	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	80	50	µg/L	50		11/11/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	98.3	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,200	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW8-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-08D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	110	50	µg/L	1.0	11/15/05	11/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	11/15/05	11/16/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW9-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-09A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	5.8	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	91.5	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW10-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-10A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	4.1	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	107	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	99	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW11-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-11A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	2.2	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	94.7	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW12-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-12A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	580	50	µg/L	50		11/11/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	1.1	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	1.8	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	21	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	92.4	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	340	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW13-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-13A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	390	50	µg/L	50		11/11/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	2.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	14	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	94.8	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	250	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW14-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-14A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	6.6	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	0.88	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	1.3	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	91.9	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	920	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW14-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-14D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	92	57	µg/L	1.1	11/15/05	11/17/05
TPHC Motor Oil	ND	190	µg/L	1.1	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW15-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-15A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	120	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	28	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	180	25	µg/L	50		11/11/05
Tert-amyl methyl ether (TAME)	2.6	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/12/05
Toluene	4.4	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	35	0.50	µg/L	1.0		11/12/05
m,p-Xylene	11	0.50	µg/L	1.0		11/12/05
o-Xylene	0.56	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	91.0	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	2,500	50	µg/L	1.0		11/12/05

Client Sample ID: 4563-MW15-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-15D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	99	62	µg/L	1.2	11/15/05	11/17/05
TPHC Motor Oil	ND	210	µg/L	1.2	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW16-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-16A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	430	50	µg/L	50		11/11/05
Tert-butyl alcohol (TBA)	280	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	4.5	1.0	µg/L	1.0		11/12/05
Benzene	1,000	25	µg/L	50		11/11/05
Tert-amyl methyl ether (TAME)	11	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	16	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	27	0.50	µg/L	1.0		11/12/05
m,p-Xylene	30	0.50	µg/L	1.0		11/12/05
o-Xylene	5.9	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	87.1	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	6,100	2,500	µg/L	50		11/11/05

Client Sample ID: 4563-MW16-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-16D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	860	50	µg/L	1.0	11/15/05	11/17/05
TPHC Motor Oil	1,800	170	µg/L	1.0	11/15/05	11/17/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW17S-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-17A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	4.1	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	93.4	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-MW17D-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-18A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	64	1.0	µg/L	1.0		11/12/05
Tert-butyl alcohol (TBA)	ND	35	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/12/05
Benzene	ND	0.50	µg/L	1.0		11/12/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	ND	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/12/05
o-Xylene	ND	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	96.2	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	92	50	µg/L	1.0		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-QCFD-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-20A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	430	50	µg/L	50		11/12/05
Tert-butyl alcohol (TBA)	260	10	µg/L	1.0		11/12/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/12/05
Ethyl tert-butyl ether (ETBE)	4.2	1.0	µg/L	1.0		11/12/05
Benzene	940	25	µg/L	50		11/12/05
Tert-amyl methyl ether (TAME)	10	1.0	µg/L	1.0		11/12/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		11/12/05
Toluene	17	0.50	µg/L	1.0		11/12/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/12/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Ethylbenzene	40	0.50	µg/L	1.0		11/12/05
m,p-Xylene	37	0.50	µg/L	1.0		11/12/05
o-Xylene	6.7	0.50	µg/L	1.0		11/12/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/12/05
Surrogate: 1,4-Dichlorobenzene-d4	84.1	80.8-139	% Rec	1.0		11/12/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	7,400	2,500	µg/L	50		11/12/05

Date: 22-Nov-05
WorkOrder: 0511064

ANALYTICAL REPORT

Client Sample ID: 4563-QCTB-W **Received:** 11/3/05 **Collected:** 11/1/05 0:00
Lab ID: 0511064-21A **Matrix:** Trip Blank

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		11/11/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		11/11/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		11/11/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		11/11/05
Benzene	ND	0.50	µg/L	1.0		11/11/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		11/11/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		11/11/05
Toluene	ND	0.50	µg/L	1.0		11/11/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		11/11/05
Chlorobenzene	ND	1.0	µg/L	1.0		11/11/05
Ethylbenzene	ND	0.50	µg/L	1.0		11/11/05
m,p-Xylene	ND	0.50	µg/L	1.0		11/11/05
o-Xylene	ND	0.50	µg/L	1.0		11/11/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		11/11/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		11/11/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		11/11/05
Surrogate: 1,4-Dichlorobenzene-d4	93.0	80.8-139	% Rec	1.0		11/11/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		11/11/05

North Coast Laboratories, Ltd.

Date: 17-Nov-05

CLIENT: LACO Associates
Work Order: 0511064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Method Blank

Sample ID **MB 111105** Batch ID: **R38028** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **11/11/05 7:01:00 AM** Prep Date

Client ID: Run ID: **ORGCMS2_051111A** SeqNo: **547425**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0									
Tert-butyl alcohol (TBA)	ND	10									
Di-isopropyl ether (DIPE)	ND	1.0									
Ethyl tert-butyl ether (ETBE)	ND	1.0									
Benzene	ND	0.50									
Tert-amyl methyl ether (TAME)	ND	1.0									
1,2-Dichloroethane	ND	1.0									
Toluene	ND	0.50									
1,2-Dibromoethane (EDB)	ND	1.0									
Chlorobenzene	ND	1.0									
Ethylbenzene	0.06335	0.50									J
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene-d4	0.957	0.10	1.00	0	95.7%	81	139	0			

Sample ID **MB 111105** Batch ID: **R38038** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **11/11/05 7:01:00 AM** Prep Date

Client ID: Run ID: **ORGCMS2_051111B** SeqNo: **547526**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	ND	50									

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: LACO Associates
Work Order: 0511064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Method Blank

Sample ID **MB-14656** Batch ID: **14656** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **11/16/05 8:55:09 PM** Prep Date **11/15/05**

Client ID: Run ID: **ORGC5_051116A** SeqNo: **548333**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	35.75	50									J
TPHC Motor Oil	77.29	170									J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 17-Nov-05

CLIENT: LACO Associates
Work Order: 0511064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05722** Batch ID: **R38028** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **11/11/05 4:01:00 AM** Prep Date

Client ID: Run ID: **ORGCMS2_051111A** SeqNo: **547423**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.64	1.0	20.0	0	103%	80	120	0			
Tert-butyl alcohol (TBA)	435.8	10	400	0	109%	25	162	0			
Di-isopropyl ether (DIPE)	21.38	1.0	20.0	0	107%	80	120	0			
Ethyl tert-butyl ether (ETBE)	19.05	1.0	20.0	0	95.2%	77	120	0			
Benzene	24.08	0.50	20.0	0	120%	78	117	0			S
Tert-amyl methyl ether (TAME)	19.04	1.0	20.0	0	95.2%	64	136	0			
1,2-Dichloroethane	23.15	1.0	20.0	0	116%	74	121	0			
Toluene	22.40	0.50	20.0	0	112%	80	120	0			
1,2-Dibromoethane (EDB)	21.57	1.0	20.0	0	108%	80	120	0			
Chlorobenzene	23.57	1.0	20.0	0	118%	80	120	0			
Ethylbenzene	22.85	0.50	20.0	0	114%	80	120	0			
m,p-Xylene	47.49	0.50	40.0	0	119%	80	120	0			
o-Xylene	22.34	0.50	20.0	0	112%	80	120	0			
1,3-Dichlorobenzene	24.78	1.0	20.0	0	124%	81	125	0			
1,4-Dichlorobenzene	24.23	1.0	20.0	0	121%	79	132	0			
1,2-Dichlorobenzene	23.84	1.0	20.0	0	119%	81	134	0			
1,4-Dichlorobenzene-d4	1.21	0.10	1.00	0	121%	81	139	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: LACO Associates
Work Order: 0511064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-05722** Batch ID: **R38028** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **11/12/05 3:29:00 AM** Prep Date
Client ID: Run ID: **ORGCMS2_051111A** SeqNo: **547442**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20.77	1.0	20.0	0	104%	80	120	20.6	0.588%	20	
Tert-butyl alcohol (TBA)	289.8	10	400	0	72.5%	25	162	436	40.2%	20	R
Di-isopropyl ether (DIPE)	21.82	1.0	20.0	0	109%	80	120	21.4	2.02%	20	
Ethyl tert-butyl ether (ETBE)	18.77	1.0	20.0	0	93.8%	77	120	19.0	1.48%	20	
Benzene	26.59	0.50	20.0	0	133%	78	117	24.1	9.90%	20	S
Tert-amyl methyl ether (TAME)	18.27	1.0	20.0	0	91.3%	64	136	19.0	4.15%	20	
1,2-Dichloroethane	25.74	1.0	20.0	0	129%	74	121	23.2	10.6%	20	S
Toluene	24.57	0.50	20.0	0	123%	80	120	22.4	9.22%	20	S
1,2-Dibromoethane (EDB)	23.29	1.0	20.0	0	116%	80	120	21.6	7.67%	20	
Chlorobenzene	25.38	1.0	20.0	0	127%	80	120	23.6	7.43%	20	S
Ethylbenzene	25.18	0.50	20.0	0	126%	80	120	22.8	9.70%	20	S
m,p-Xylene	54.08	0.50	40.0	0	135%	80	120	47.5	13.0%	20	S
o-Xylene	24.66	0.50	20.0	0	123%	80	120	22.3	9.86%	20	S
1,3-Dichlorobenzene	27.72	1.0	20.0	0	139%	81	125	24.8	11.2%	20	S
1,4-Dichlorobenzene	27.04	1.0	20.0	0	135%	79	132	24.2	11.0%	20	S
1,2-Dichlorobenzene	27.02	1.0	20.0	0	135%	81	134	23.8	12.5%	20	S
1,4-Dichlorobenzene-d4	1.33	0.10	1.00	0	133%	81	139	1.21	10.1%	20	

Sample ID **LCS-05723** Batch ID: **R38038** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **11/11/05 5:32:00 AM** Prep Date
Client ID: Run ID: **ORGCMS2_051111B** SeqNo: **547524**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,061	50	1,000	0	106%	80	120	0			

Sample ID **LCSD-05723** Batch ID: **R38038** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **11/12/05 3:58:00 AM** Prep Date
Client ID: Run ID: **ORGCMS2_051111B** SeqNo: **547538**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,077	50	1,000	0	108%	80	120	1,060	1.46%	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: LACO Associates
Work Order: 0511064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-14656** Batch ID: **14656** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **11/16/05 6:19:48 PM** Prep Date **11/15/05**
Client ID: Run ID: **ORGC5_051116A** SeqNo: **548331**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	344.6	50	500	0	68.9%	46	91	0			
TPHC Motor Oil	980.0	170	1,000	0	98.0%	48	113	0			

Sample ID **LCSD-14656** Batch ID: **14656** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **11/16/05 6:50:48 PM** Prep Date **11/15/05**
Client ID: Run ID: **ORGC5_051116A** SeqNo: **548332**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	413.4	50	500	0	82.7%	46	91	345	18.2%	15	R
TPHC Motor Oil	1,079	170	1,000	0	108%	48	113	980	9.60%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
5680 West End Road · Arcata · CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0511064

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone:
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: task 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (PRESERVATIVE: b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER: 9 / 7)
	4563-MW1-W	11-1-05	AM	GW	3	1
	4563-MW2-W				3	1
	4563-MW3-W				3	1
	4563-MW4-W				3	1
	4563-MW5-W				3	1
	4563-MW6-W				3	1
	4563-MW7-W				3	1
	4563-MW8-W				3	1
	4563-MW9-W				3	
	4563-MW10-W		PM		3	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

Cooler temps = 3.0 C
2.6 C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
[signature]	11/3/05	Jennifer Martin	11-3-05 1400

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

PW

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0511064

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone:
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_3H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: TASK 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	ANALYSIS: 8260 List 5	ANALYSIS: TPHd/mo w/SGC	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4563-MW11-W	11-1-05	Am	GW	9	b	3		GEOTRACKER
	4563-MW12-W	↓	↓	↓			3		
	4563-MW13-W						3		
	4563-MW14-W						3	1	LIMITED VOLUME TPHd/mo w/SGC
	4563-MW15-W						3	1	LIMITED VOLUME TPHd/mo w/SGC
	4563-MW16-W						3	1	LIMITED VOLUME TPHd/m w/SGC
	4563- MW17S-W						3		
	4563-MW17D-W						3		
	4563-QCMB-W						~~3~~		* did Not receive. Notified client
	4563-QCFD-W		Pm				3		

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
	11/3/05		11-3-05 1400

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

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[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: TASK 3031

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS	CONTAINER	PRESERVATIVE
	4563-QCTB-W	11-1-05	Am/pm	GW	8260 List 5	9	b
					TPHd/mo w/SGC	7	--

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
	11/3/05		11-3-05 1400

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
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