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September 22, 2005

4329.02

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; Third Quarter 2005
HPI Redwood Village Texaco; 723 South Fortuna Boulevard,
Fortuna, California; LOP No: 12551

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the third quarter of 2005 at the Redwood Village Texaco located in Fortuna, California. This report has been prepared for Humboldt Petroleum, Incorporated.

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

Sincerely,
LACO ASSOCIATES

Amy Thomson
Staff Geologist

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

PROFESSIONAL GEOLOGIST
CHRISTOPHER JOHN WATT
No. 7586
Exp.03/31/
STATE OF CALIFORNIA

AMT:jg

Attachments

cc: Jim Seiler, Humboldt Petroleum, Inc. (electronically sent)

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GROUNDWATER MONITORING REPORT
THIRD QUARTER 2005

HPI Redwood Village Texaco; 723 South Fortuna Boulevard, Fortuna, California

LOP No. 12553; LACO Project No. 4329.02

INTRODUCTION:

Field activities were conducted on August 1, 2005, in accordance with generally accepted practices at this or similar locations. Details of the quarterly sampling parameters are presented in Table A below. A location map and site plan is included as Figures 1 and 2, respectively. Field sampling reports are included as Attachment 1.

SITE CHRONOLOGY:

- **1984:** The Redwood Village Texaco Station was built on raw agriculture property; it is believed that this is the time the three underground storage tanks (USTs) were installed.
- **1990:** Humboldt Petroleum, Incorporated (HPI) purchased the subject property.
- **1996:** Three 10,000-gallon gasoline USTs were removed and replaced with two new, steel, fiberglass-coated, double-walled tanks and fiberglass piping. Approximately 710 tons of petroleum impacted soil was excavated from the tank cavity.
- **1998:** Three monitoring wells were installed.
- **1999:** Four borings were installed. The field geologist observed two distinct aquifers separated by an aquitard.
- **2000:** Five monitoring wells were installed and the previously installed monitoring wells (MW1 through MW3) were destroyed.
- **2001:** Seventeen borings were installed to further delineate the petroleum hydrocarbon plume.
- **2002:** Monitoring wells MW9 through MW15 were installed.
- **2004:** Sixteen borings were installed to monitor the petroleum hydrocarbon plume stability.

- **2005:** Monitoring wells MW16, MW17, and MW18 were installed.

TABLE A Quarterly Sampling Parameters: August 1, 2005, Sampling Event						
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMET	ANALYTICALS ORGANICS	SAMPLING SCHEDULE
MW4	3-10	5.87	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW5	15-24.1	Dry	NA	NA	NA	
MW6	3-10	5.7	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	
MW7	15-26.3	Dry	NA	NA	NA	
MW8	10-15	14.6	NA	NA		
MW9	5-10	9.15	3/4" Bailer	NA	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	
MW10	5-10	9.17	3/4" Bailer	NA		
MW11	5-10	6.16	DHP	ORP, DO		
MW12	28-30.9	25.44	3/4" Bailer	NA		
MW13	5-10	8.78	NA	NA	NA	
MW14	5-10	9.04	NA	NA		
MW15	5-10	6.45	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	
MW16	4-14	13.74	NA	NA		
MW17	4-14	13.70	NA	NA	NA	
MW18	4-14	6.08	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	

HYDRAULIC GRADIENT AND HYDROGEOLOGY

In previous monitoring events, the hydraulic gradients for both the shallow and deep water-bearing units have been typically calculated using the three-point method and hydraulic head elevations. Historic hydraulic head data are included in Table 1 and historic hydraulic gradients are presented in Table 2. Hydraulic heads for monitoring wells screened in the shallow and deep aquifers are provided in Figures 3 and 4, respectively.

The hydraulic gradient in the shallow aquifer was calculated using the three-point method in the area defined by monitoring wells MW4, MW10, and MW14. These monitoring wells were selected because they are located along the site perimeter and thus represent the hydraulic gradient throughout the site.

- The hydraulic gradient for the shallow wells for the August 1, 2005, sampling event was estimated at 3.1 percent in a S20°E direction (Figure 3).

The calculated gradient for the shallow aquifer is relatively consistent with previous monitoring events (Table 2). The hydraulic gradient in the deep aquifer was unobtainable. Insufficient groundwater in the monitoring wells did not allow for hydraulic head measurements, which is not uncommon in the deep wells at this site.

An examination of the hydraulic heads, monitoring well screen intervals, and hydro-stratigraphic conditions of the site suggests that vertical gradients exist in the area defined by an inferred east-west transect that includes monitoring wells MW4, MW10, MW11, MW15, and MW18. Table B, included below, contains screen interval information for monitoring wells MW4, MW10, MW11, MW15, and MW18.

Table B: Screen Intervals of Select Monitoring Wells

Screen Interval (feet, bgs)	*Monitoring Well*				
	MW4	MW18	MW15	MW11	MW10
	3-10	4-14	5-10	5-10	5-10

Evidence of vertical gradients in this area of the site include the more than 3-foot difference in hydraulic head between monitoring wells MW10 and MW11, which are separated by a linear difference of approximately 47 feet. The vertical gradients appear to be driven by differences in lithology in which clayey silt to silty clay lenses may contribute to perching conditions in the area defined by these monitoring wells, or possibly may be due to the proximity of underground utility corridors.

LABORATORY RESULTS AND DISCUSSION

Analyte concentrations in groundwater for the current sampling event are included in Figure 5 and in Table C, included below. Historical groundwater analytical results are summarized in Table 1. A copy of the laboratory report for the current event is included as Attachment 2.

Table C: Laboratory Analytical Results for August 1, 2005

WELL	TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW4	1,700	5.7	ND<0.50	19	2.0	610	250	35	2.9	---	ND<1.0
MW5	no sample collected										
MW6	36,000	5,200	33	1,800	870	25,000	960	330	99	ND<1.0-6.0	ND<1.0
MW7	no sample collected										
MW8	no sample collected										
MW9	63	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
MW10	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
MW11	ND<50	0.75	ND<0.50	ND<0.50	0.52	9.5	ND<10	ND<1.0	ND<1.0	---	ND<1.0
MW12	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
MW13	no sample collected										
MW14	no sample collected										
MW15	4,300	41	1.8	75	223	ND<20	ND<20	ND<1.0	ND<1.0	---	ND<1.0
MW16	1,900	71	1.7	120	129	130	ND<150	4.9	ND<1.0	---	ND<1.0
MW17	no sample collected										
MW18	7,700	67	5.9	280	553	ND<80	ND<40	3.4	ND<1.0	---	ND<1.0

The laboratory noted that samples collected from monitoring wells MW4, MW6, MW15, MW16, and MW18 include the reported gasoline components and additives in addition to other peaks in the gasoline range.

DISCUSSION

Laboratory results for groundwater samples analyzed from the monitoring wells are consistent with historic analyte concentrations (Table 1). Samples collected from monitoring wells MW11 and MW15 had increased detections in analyte concentrations. Benzene and xylene concentrations in monitoring well MW15 increased by one order of magnitude since the previous sampling event. The concentration of total petroleum hydrocarbons as gasoline (TPHg) in monitoring well MW15 also increased slightly, but is within the range of previous events. This is the first time TPHg has been detected in monitoring well MW9 since July of 2002.

In February 2005, monitoring wells MW9, MW11, MW13, and MW14 were re-developed, which caused the groundwater to flow more readily through the screen intervals. This is evident when comparing the depth-to-water (DTW) measurements from the previous sampling event in May to the current sampling event (August 1, 2005). Following the re-development (May), the DTW measurements in the fore mentioned monitoring wells, was the highest reported since the wells were installed. During this sampling event, the DTW measurements in monitoring wells MW6, MW9, MW11, MW13, MW14, and MW16, decreased approximately between 2 to 4 feet. This decrease in DTW may be related to the well re-development, the amount of rainfall in the summer months, and/or the proximity of these monitoring wells to utility lines at the site.

The increase in analyte concentrations at this site is related to seasonal groundwater fluctuations at this location. During the dry summer months the water table recharge rate decreases, which in turn reduces the dilution of the analyte constituents in the monitoring wells. Monitoring wells MW5, MW7, MW8, MW13, MW14, and MW17 were not sampled due to insufficient groundwater in the monitoring well. Samples collected from monitoring well MW12 have not reported detectable analyte concentration since November 2003; we therefore recommended that this monitoring well be moved to an annual sampling schedule.

RECOMMENDATIONS

- Continue with the current sampling protocol. The next sampling event is scheduled for November 2005.
- Remediation implementation is pending approval of a Pay for Performance proposal by the Underground Storage Tank Clean-up Fund.
- We recommend sampling monitoring wells MW5, MW7, MW8, MW9, MW10, MW11, and MW12 to an annual (wet season) monitoring schedule.

LIMITATIONS

LACO ASSOCIATES 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 ASSOCIATES disclaims any and all liability for any errors, omissions, or inaccuracies in the

information and data presented in this report and/or any consequences arising there from, whether attributable to inadvertence or otherwise. LACO ASSOCIATES 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 ASSOCIATES 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. The report is valid solely for the purpose, site, and project described in 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: Hydraulic Head Map - Shallow Aquifer (7/19/05)

Figure 4: Hydraulic Head Map - Deep Aquifer (7/19/05)

Figure 5: Analyte Concentrations in Groundwater (7/19/05)

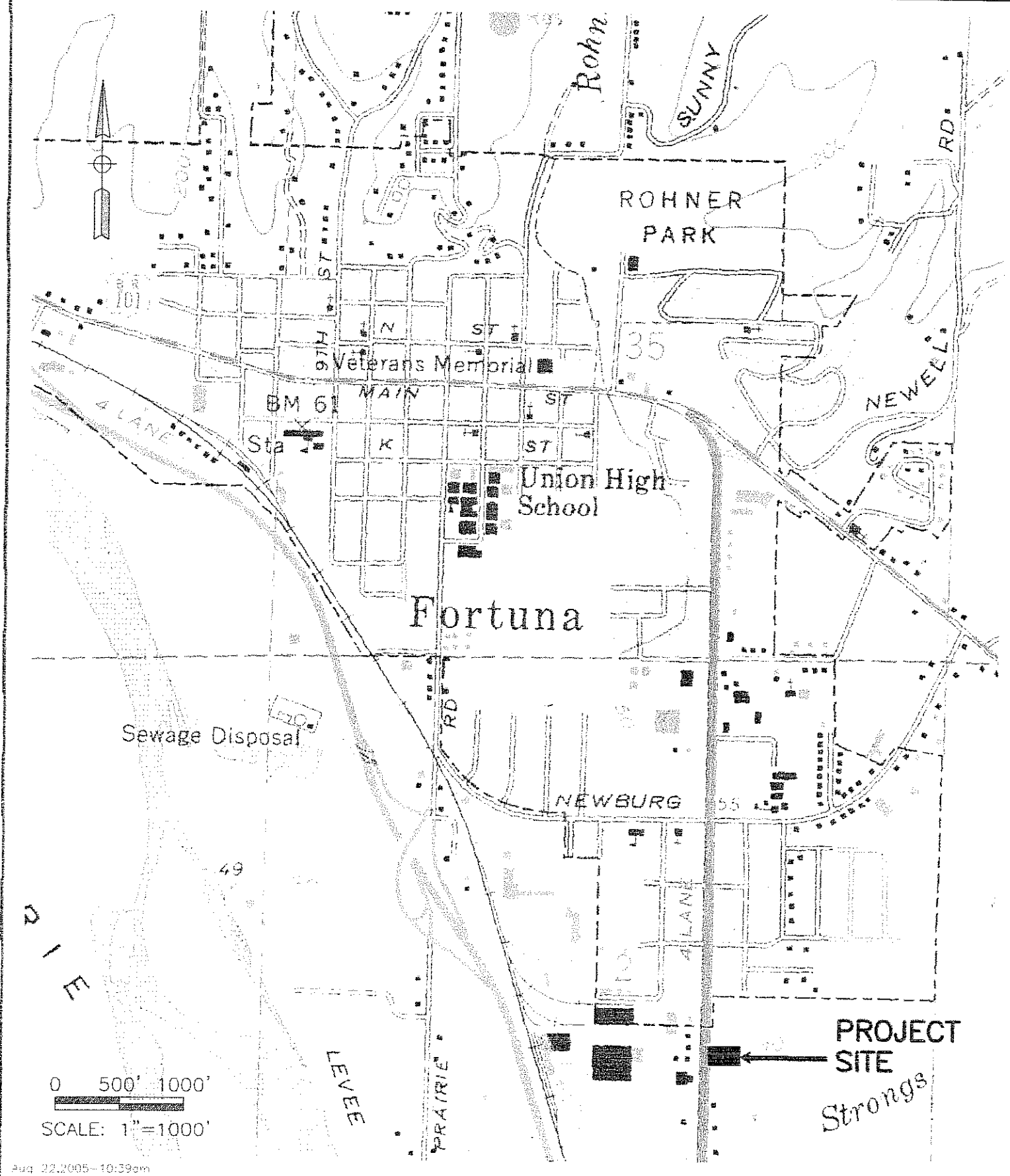
Table 1: Groundwater Analytical Results

Table 2: Historical Hydraulic Gradient Data

Attachment 1: Field Sampling Forms

Attachment 2: Copy of Current Laboratory Analytical Report

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 1
	CLIENT HUMBOLDT PETROLEUM, INC.	DATE 8/22/05	
	LOCATION R. VILLAGE TEXACO	CHECK	JOB NO. 4329.02
	LOCATION MAP	SCALE 1"=1000'	



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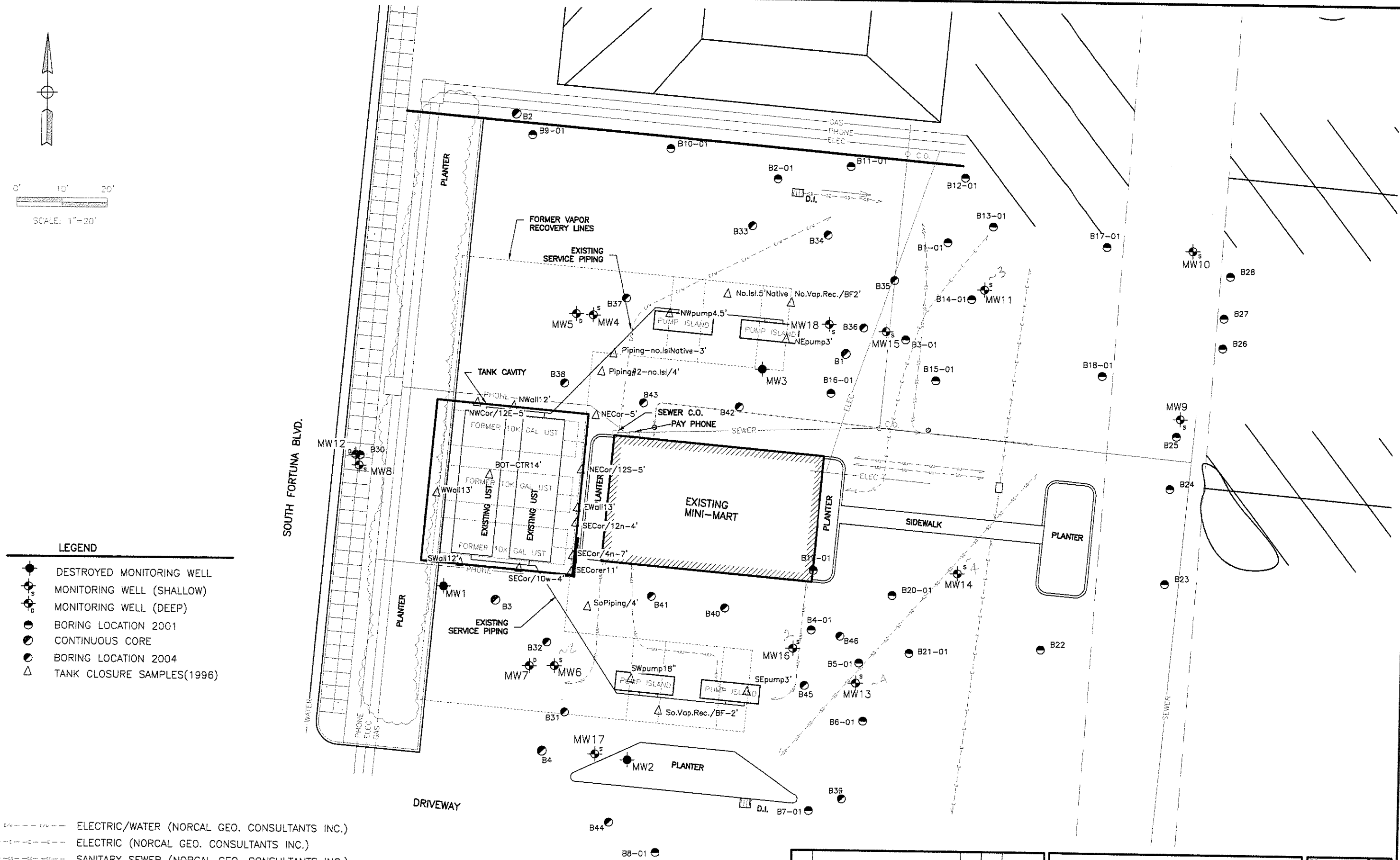

LEGEND

- DESTROYED MONITORING WELL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- BORING LOCATION 2001
- CONTINUOUS CORE
- BORING LOCATION 2004
- TANK CLOSURE SAMPLES(1996)

- ELECTRIC/WATER (NORCAL GEO. CONSULTANTS INC.)
- ELECTRIC (NORCAL GEO. CONSULTANTS INC.)
- SANITARY SEWER (NORCAL GEO. CONSULTANTS INC.)
- STORM DRAIN (NORCAL GEO. CONSULTANTS INC.)
- UNDIFFERENTIATED UTILITY (NORCAL GEO. CONSULTANTS INC.)

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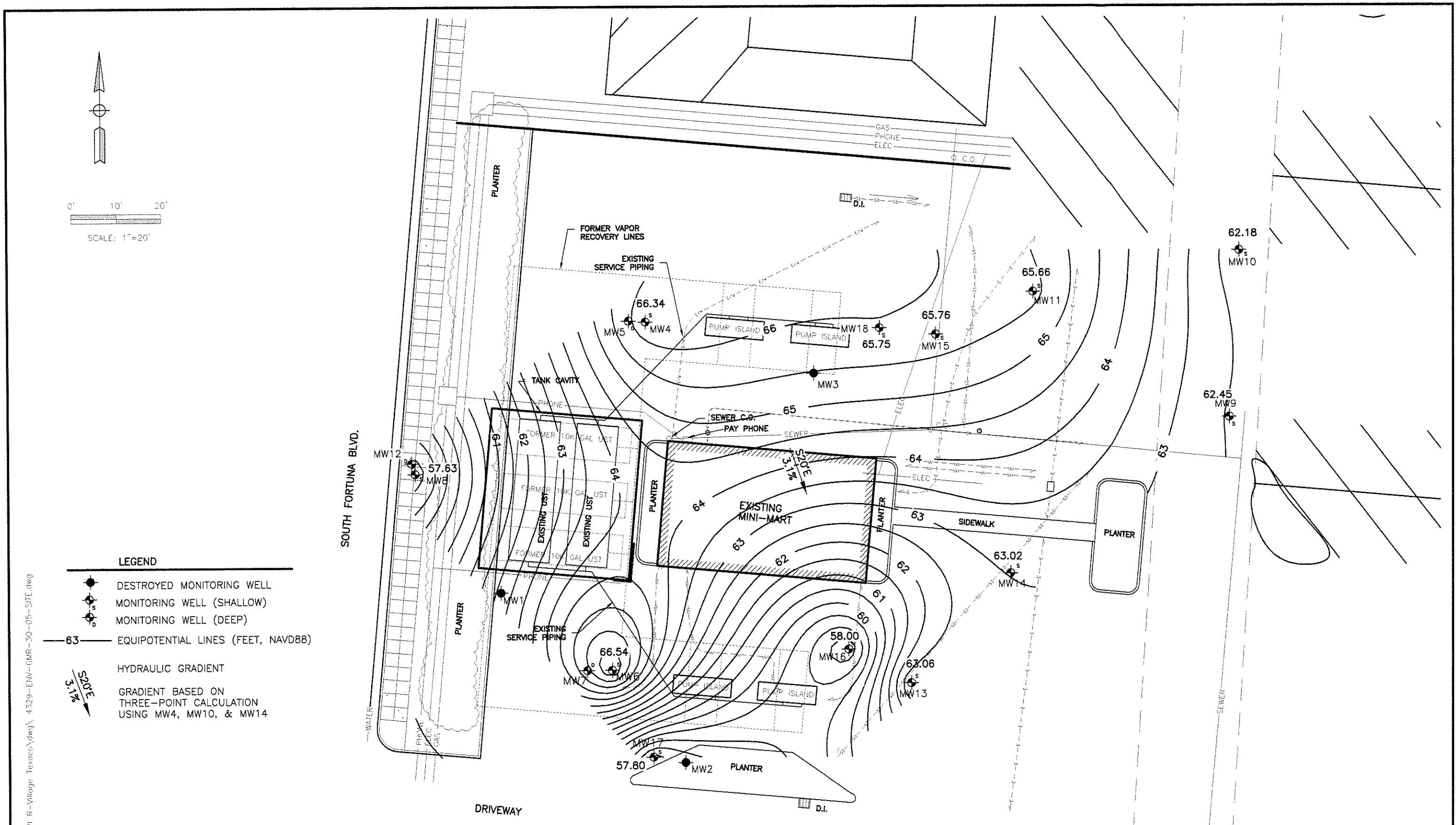
NO.	REVISION	BY	CHK	DATE

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

GROUNDWATER MONITORING REPORT
SITE MAP

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	CA
DATE	8/22/05
JOB NO.	4329.02
FIGURE	2



LEGEND

- DESTROYED MONITORING WELL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- —63— EQUIPOTENTIAL LINES (FEET, NAVD88)
- S20°E 3.1% HYDRAULIC GRADIENT
- GRADIENT BASED ON THREE-POINT CALCULATION USING MW4, MW10, & MW14
- ELECTRIC/WATER (NORCAL GEO. CONSULTANTS INC.)
- ELECTRIC (NORCAL GEO. CONSULTANTS INC.)
- SANITARY SEWER (NORCAL GEO. CONSULTANTS INC.)
- STORM DRAIN (NORCAL GEO. CONSULTANTS INC.)
- UNDIFFERENTIATED UTILITY (NORCAL GEO. CONSULTANTS INC.)

NO.	REVISION	BY	CHK	DATE

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

GROUNDWATER MONITORING REPORT
HYDRAULIC GRADIENT MAP – SHALLOW AQUIFER (7/19/05)

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	8/24/05
JOB NO.	4329.02
FIGURE	3

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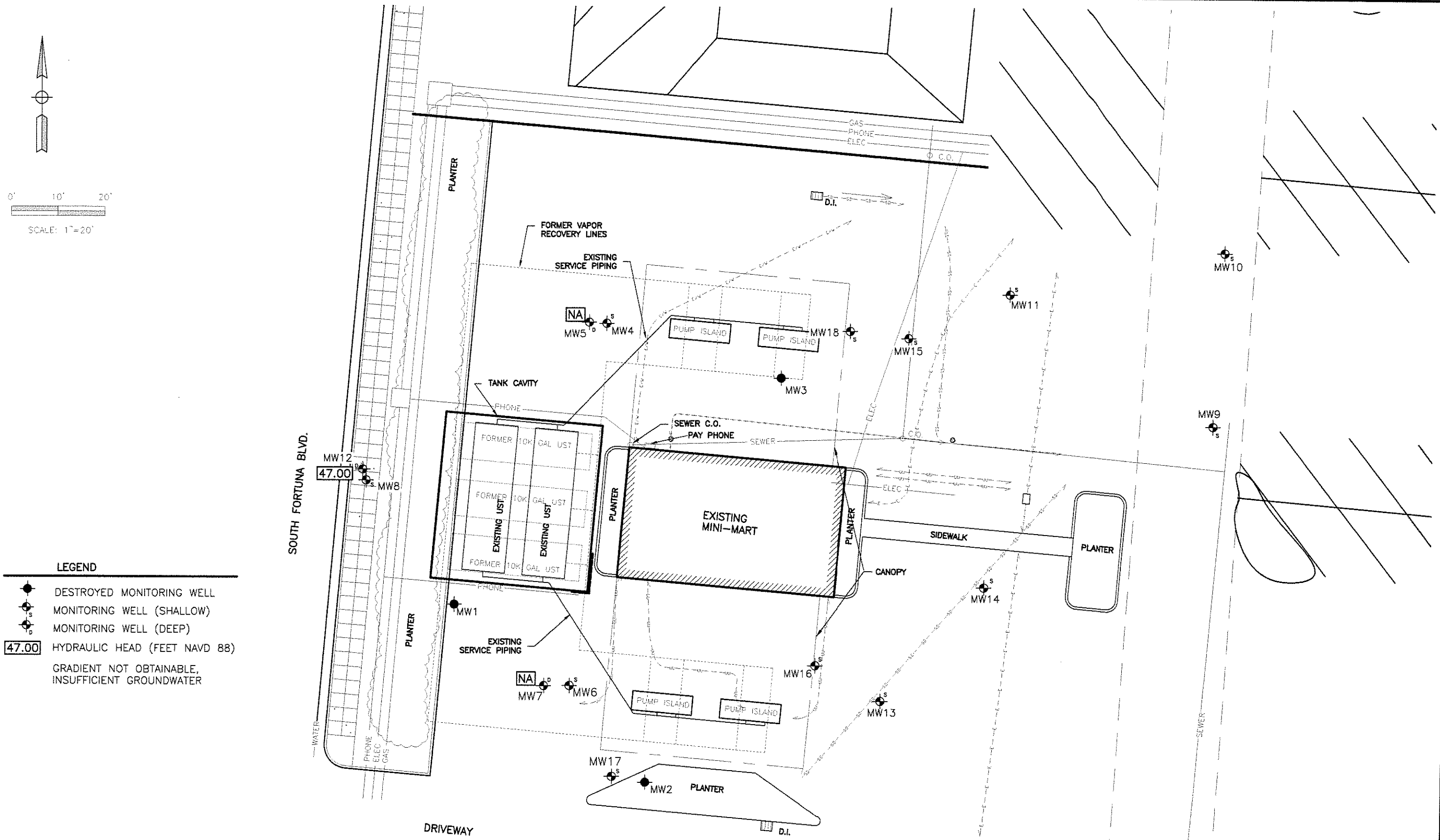

LEGEND

- DESTROYED MONITORING WELL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- 47.00 HYDRAULIC HEAD (FEET NAVD 88)
- GRADIENT NOT OBTAINABLE, INSUFFICIENT GROUNDWATER

- ELECTRIC/WATER (NORCAL GEO. CONSULTANTS INC.)
- ELECTRIC (NORCAL GEO. CONSULTANTS INC.)
- SANITARY SEWER (NORCAL GEO. CONSULTANTS INC.)
- STORM DRAIN (NORCAL GEO. CONSULTANTS INC.)
- UNDIFFERENTIATED UTILITY (NORCAL GEO. CONSULTANTS INC.)

NO.	REVISION	BY	CHK	DATE

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

GROUNDWATER MONITORING REPORT
HYDRAULIC HEAD MAP - DEEP AQUIFER (7/19/05)

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	8/24/05
JOB NO.	4329.02
FIGURE	4

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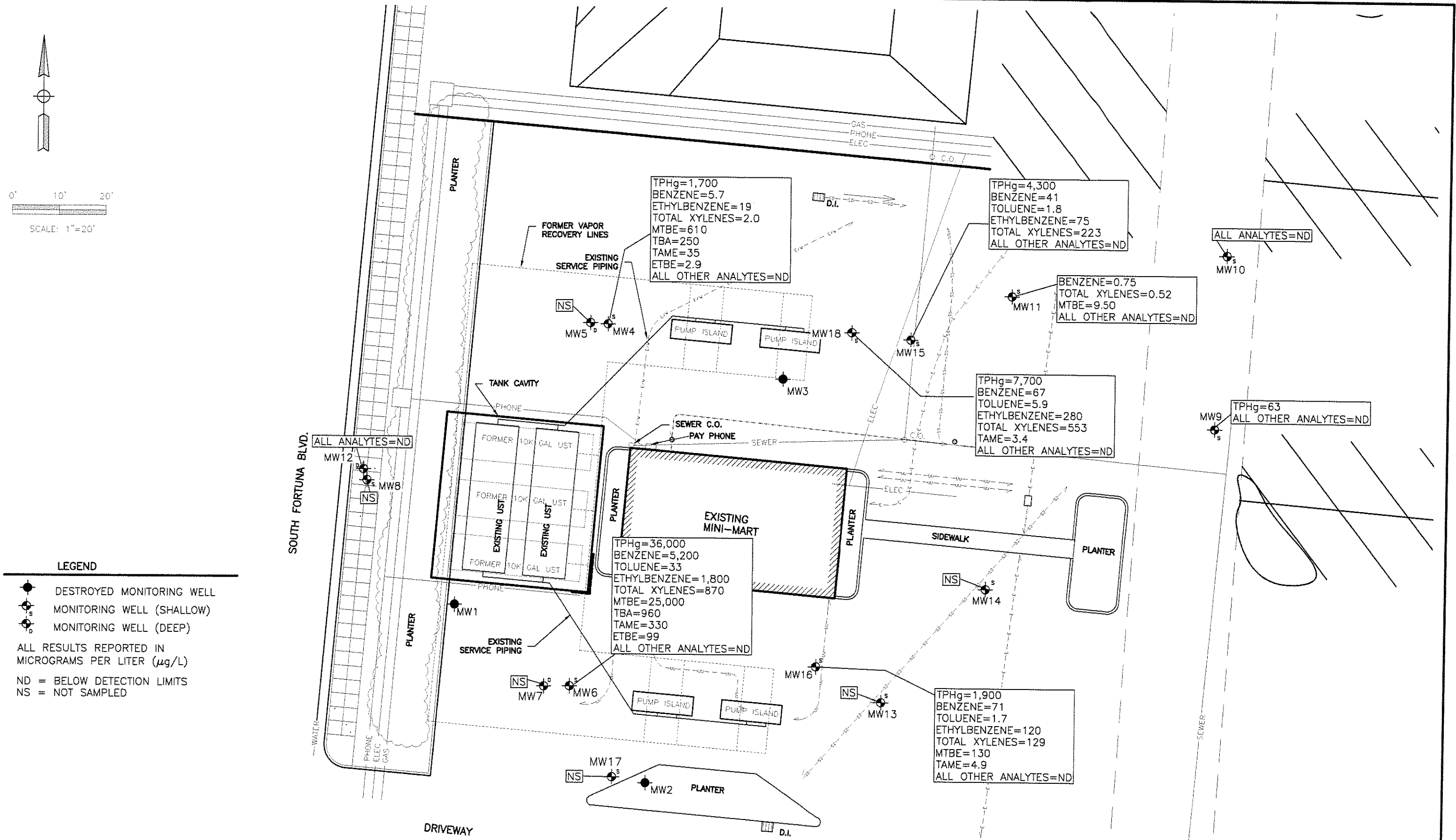

LEGEND

- DESTROYED MONITORING WELL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)

ALL RESULTS REPORTED IN MICROGRAMS PER LITER ($\mu g/L$)

ND = BELOW DETECTION LIMITS
NS = NOT SAMPLED

- ELECTRIC/WATER (NORCAL GEO. CONSULTANTS INC.)
- ELECTRIC (NORCAL GEO. CONSULTANTS INC.)
- SANITARY SEWER (NORCAL GEO. CONSULTANTS INC.)
- STORM DRAIN (NORCAL GEO. CONSULTANTS INC.)
- UNDIFFERENTIATED UTILITY (NORCAL GEO. CONSULTANTS INC.)

NO.	REVISION	BY	CHK	DATE

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

GROUNDWATER MONITORING REPORT
ANALYTE CONCENTRATIONS IN GROUNDWATER (7/19/05)

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	8/24/05
JOB NO.	4329.02
FIGURE	5

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TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Groundwater Measurements: Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	Analytical Results: TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-1															
12/21/1998				dry	no sample collected			---	---	---	---	---	---	---	---
8/1/2000					---	---	---	---	---	---	---	---	---	---	---
MW-2															
8/25/1999				dry	no sample collected		---	---	---	---	---	---	---	---	---
8/1/2000					---	---	---	---	---	---	---	---	---	---	---
MW-3															
8/25/1999				16.51	no sample collected		---	---	---	---	---	---	---	---	---
8/1/2000					---	---	---	---	---	---	---	---	---	---	---
MW-4	72.21		3-10												
8/11/2000		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
9/8/2000		63.12		9.09	---	---	---	---	---	---	---	---	---	---	---
10/12/2000		64.03		8.18	---	---	---	---	---	---	---	---	---	---	---
11/9/2000		64.64		7.57	510	61	ND<0.50	55	34	210	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/12/2000		64.16		8.05	---	---	---	---	---	---	---	---	---	---	---
1/8/2001		64.81		7.40	---	---	---	---	---	---	---	---	---	---	---
2/14/2001		66.56		5.65	2,800	88	ND<0.50	150	87.4	380	94	19	ND<1.0	---	All others ND
2/14/2001		field duplicate			2500	81	ND<0.50	140	79.4	340	100	17	ND<1.0	---	All others ND
2/14/2001		method blank			ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	All ND<1.0-4.0	ND<1.0
3/12/2001		66.79		5.42	---	---	---	---	---	---	---	---	---	---	---
4/6/2001		66.52		5.69	---	---	---	---	---	---	---	---	---	---	---
5/11/2001		66.41		5.80	1,300	120	ND<1	140	16	380	130	18	ND<1.0	All ND<2.5	All others ND
6/8/2001		65.50		6.71	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		66.21		6.00	---	---	---	---	---	---	---	---	---	---	---
8/24/2001		66.09		6.12	1,400	81	ND<1.3	78	40	650	290	36	3.4	All ND<2.5	All others ND
9/17/2001		65.39		6.82	---	---	---	---	---	---	---	---	---	---	---
10/24/2001		64.62		7.59	---	---	---	---	---	---	---	---	---	---	---
11/5/2001		65.32		6.89	1,000	45	1.4	68	30.6	640	180	30	2.3	All ND<1.0	All others ND
12/5/2001		66.48		5.73	---	---	---	---	---	---	---	---	---	---	---
1/3/2002		67.13		5.08	---	---	---	---	---	---	---	---	---	---	---
2/15/2002		66.63		5.58	1,700	8.5	ND<0.50	49	13	540	620	27	1.9	All ND<1.0	All others ND
5/3/2002		66.63		5.58	1,900	7.4	ND<0.50	23	11.85	720	330	30	2.7	All ND<1.0	All others ND
7/31/2002		66.26		5.95	1,700	21	0.77	72	36.2	650	230	32	2.6	All ND<1.0	All others ND
12/5/2002		65.43		6.78	1,300	11	0.93	55	19.5	590	360	30	2.8	All ND<1.0	All others ND
2/13/2003		62.68		9.53	no sample collected			---	---	---	---	---	---	---	---
5/21/2003		66.91		5.30	2,200	20	ND<0.50	64	16	670	220	34	2.6	All ND<1.0	All others ND
8/6/2003		66.40		5.81	2,700	12	1.1	80	18.8	810	280	38	3.0	All ND<1.0	All others ND
11/6/2003		65.83		6.38	2,500	8.1	ND<0.50	44	8.88	620	200	28	2.2	All ND<1.0	All others ND
2/11/2004		66.91		5.30	2,000	12	ND<0.50	25	7.0	680	390	39	ND<6.0	---	All others ND
5/14/2004		66.30		5.91	1,900	20	ND<0.50	41	9.8	630	180	34	2.6	---	All others ND
8/30/2004		66.15		6.06	1,800	7.5	ND<0.50	29	4.8	650	350	39	2.8	---	ND<1.0
11/22/2004		66.00		6.21	1,800	10	ND<0.50	39	5.7	690	ND<500	34	3.1	---	ND<1.0
2/3/2005		66.94		5.27	2,000	6.9	ND<0.50	19	2.5	630	230	34	2.7	---	ND<1.0
5/23/2005		66.83		5.38	1,900	5.9	ND<0.50	19	1.5	530	220	31	2.6	---	ND<1.0
8/1/2005		66.34		5.87	1,700	5.7	ND<0.50	19	2.0	610	250	35	2.9	---	ND<1.0

TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Groundwater Measurements: Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	Analytical Results: TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-5	72.32		15-24.1												
8/11/2000		50.46		21.86	no sample collected			---	---	---	---	---	---	---	---
9/8/2000		49.04		23.28	---	---	---	---	---	---	---	---	---	---	---
10/12/2000		48.40		23.92	---	---	---	---	---	---	---	---	---	---	---
11/9/2000		48.40		23.92	no sample collected			---	---	---	---	---	---	---	---
12/12/2000		48.40		23.92	---	---	---	---	---	---	---	---	---	---	---
1/8/2001		48.40		23.92	---	---	---	---	---	---	---	---	---	---	---
2/14/2001		50.47		21.85	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.71	ND<10	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
3/12/2001		50.53		21.79	---	---	---	---	---	---	---	---	---	---	---
4/6/2001		50.54		21.78	---	---	---	---	---	---	---	---	---	---	---
5/11/2001		50.50		21.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	ND<10	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
6/8/2001		50.47		21.85	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		48.90		23.42	---	---	---	---	---	---	---	---	---	---	---
8/24/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
9/17/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
10/24/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
11/5/2001		48.82		23.50	no sample collected		---	---	---	---	---	---	---	---	---
12/5/2001		48.86		23.46	---	---	---	---	---	---	---	---	---	---	---
1/3/2002		48.90		23.42	---	---	---	---	---	---	---	---	---	---	---
2/15/2002		50.43		21.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	---
5/3/2002		50.47		21.85	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0-2.0	---
7/31/2002		48.99		23.33	no sample collected		---	---	---	---	---	---	---	---	---
12/5/2002		48.63		23.69	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		49.44		22.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	---
5/21/2003		50.52		21.80	ND<50	2.9	ND<0.50	0.62	0.53	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	---
8/6/2003		50.45		21.87	ND<50	ND<0.50	1.4	1.1	3.9	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	---
11/6/2003		48.84		23.48	57	ND<0.50	ND<0.50	ND<0.50	0.74	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	---
2/11/2004		50.49		21.83	52	3.1	ND<0.50	1.3	1.0	2.2	ND<10	ND<1.0	ND<1.0	---	ND < 1.0-10
5/14/2004		50.49		21.83	ND<50	5.9	ND<0.50	1.7	0.96	1.6	ND<10	ND<1.0	ND<1.0	---	ND<1.0
8/30/2004		48.83		23.49	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
11/22/2004		NA		dry	no sample collected			---	---	---	---	---	---	---	---
2/3/2005		50.45		21.87	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	---	
5/23/2005		50.48		21.84	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	---	
8/1/2005		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
MW-6	72.24		3-10												
8/11/2000		NA		dry	no sample collected			---	---	---	---	---	---	---	---
9/8/2000		NA		dry	---	---	---	---	---	---	---	---	---	---	---
10/12/2000		NA		dry	---	---	---	---	---	---	---	---	---	---	---
11/9/2000		NA		dry	no sample collected			---	---	---	---	---	---	---	---
12/12/2000		NA		dry	---	---	---	---	---	---	---	---	---	---	---
1/8/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
2/14/2001		62.89		9.35	no sample collected			---	---	---	---	---	---	---	---
3/12/2001		63.62		8.62	---	---	---	---	---	---	---	---	---	---	---
4/6/2001		63.65		8.59	---	---	---	---	---	---	---	---	---	---	---
5/11/2001		63.71		8.53	50,000	6,400	1,100	1,400	4,160	25,000	1,600	290	100	All ND<50	All others ND
6/8/2001		63.43		8.81	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		63.74		8.50	---	---	---	---	---	---	---	---	---	---	---
8/24/2001		63.00		9.24	no sample collected		---	---	---	---	---	---	---	---	---

TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Groundwater Measurements: Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	Analytical Results: TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-6 Continued															
9/17/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
10/24/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
11/5/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
12/5/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
1/3/2002		63.67		8.57	---	---	---	---	---	---	---	---	---	---	---
2/15/2002		64.40		7.84	40,000	7,900	78	830	826	26,000	4,200	340	100	All ND<50-100	All others ND
5/3/2002		63.99		8.25	57,000	8,800	37	930	869	41,000	2,600	460	140	All ND<50-100	All others ND
7/31/2002		62.67		9.57	no sample collected			---	---	---	---	---	---	---	---
12/5/2002		NA		dry	no sample collected			---	---	---	---	---	---	---	---
2/13/2003		63.44		8.80	54,000	8,700	180	1,500	1,510	44,000	ND	500	140	1,2-Dichloroethane = 4.2 All others ND<1.0	All others ND
5/21/2003		65.71		6.53	58,000	10,000	550	2,000	3,480	28,000	1,200	390	110	1,2-Dichloroethane = 3.4 All others ND<1.0	All others ND
8/6/2003		63.39		8.85	45,000	8,700	130	1,900	1,600	35,000	ND	500	160	ND<1.0	All others ND
11/6/2003		NA		dry	no sample collected			---	---	---	---	---	---	---	---
2/11/2004		63.94		8.30	47,000	7,000	100	1,900	1,230	28,000	ND	380	ND	ND<100	
5/14/2004		63.92		8.32	38,000	6,300	95	1,900	1,530	25,000	980	340	110	ND<50	ND<50
8/30/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
11/22/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		64.39		7.85	35,000	4,400	94	2,200	1,100	18,000	880	240	92	ND<1.0-10	---
5/23/2005		64.75		7.49	43,000	4,700	230	2,100	1,500	20,000	1100	280	91	ND<1.0-10	---
8/1/2005		66.54		5.70	36,000	5,200	33	1,800	870	25,000	960	330	99	ND<1.0-6.0	---
MW-7	72.19		15-26.3												
8/11/2000		46.05		26.14	no sample collected		---	---	---	---	---	---	---	---	---
9/8/2000		NA		dry	---	---	---	---	---	---	---	---	---	---	---
10/12/2000		NA		dry	---	---	---	---	---	---	---	---	---	---	---
11/9/2000		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
12/12/2000		NA		dry	---	---	---	---	---	---	---	---	---	---	---
1/8/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
2/14/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
3/12/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
4/6/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
5/11/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
6/8/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
8/24/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
9/17/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
10/24/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
11/5/2001		NA		dry	no sample collected			---	---	---	---	---	---	---	---
12/5/2001		45.91		26.28	---	---	---	---	---	---	---	---	---	---	---
1/3/2002		45.90		26.29	---	---	---	---	---	---	---	---	---	---	---
2/15/2002		46.23		25.96	no sample collected		---	---	---	---	---	---	---	---	---

TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Groundwater Measurements: Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	Analytical Results: TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-7 Continued															
5/3/2002		46.37		25.82	no sample collected		---	---	---	---	---	---	---	---	---
7/31/2002		45.79		26.40	no sample collected		---	---	---	---	---	---	---	---	---
12/5/2002		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		46.28		25.91	no sample collected		---	---	---	---	---	---	---	---	---
5/21/2003		47.76		24.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
8/6/2003		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
11/6/2003		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
2/11/2004		46.69		25.50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
5/14/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
8/30/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
11/22/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		46.01		26.18	no sample collected		---	---	---	---	---	---	---	---	---
5/23/2005		47.03		25.16	no sample collected		---	---	---	---	---	---	---	---	---
8/1/2005		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
MW-8	72.30		10-15												
8/11/2000		60.53		11.77	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
9/8/2000		58.22		14.08	---	---	---	---	---	---	---	---	---	---	---
10/12/2000		58.22		14.08	---	---	---	---	---	---	---	---	---	---	---
11/9/2000		58.22		14.08	no sample collected		---	---	---	---	---	---	---	---	---
12/12/2000		58.22		14.08	---	---	---	---	---	---	---	---	---	---	---
1/8/2001		58.24		14.06	---	---	---	---	---	---	---	---	---	---	---
2/14/2001		58.22		14.08	no sample collected		---	---	---	---	---	---	---	---	---
3/12/2001		58.22		14.08	---	---	---	---	---	---	---	---	---	---	---
4/6/2001		58.21		14.09	---	---	---	---	---	---	---	---	---	---	---
5/11/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
6/8/2001		58.22		14.08	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
8/24/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
9/17/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
10/24/2001		NA		dry	---	---	---	---	---	---	---	---	---	---	---
11/5/2001		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
12/5/2001		58.23		14.07	---	---	---	---	---	---	---	---	---	---	---
1/3/2002		58.22		14.08	---	---	---	---	---	---	---	---	---	---	---
2/15/2002		58.21		14.09	no sample collected		---	---	---	---	---	---	---	---	---
5/3/2002		58.19		14.11	no sample collected		---	---	---	---	---	---	---	---	---
7/31/2002		58.18		14.12	no sample collected		---	---	---	---	---	---	---	---	---
12/5/2002		57.96		14.34	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		58.16		14.14	ND<2,500	ND<25	ND<25	ND<25	ND<25	ND<50	ND<1000	ND<25	ND<25	All ND<25-50	ND<25
5/21/2003		57.98		14.32	no sample collected		---	---	---	---	---	---	---	---	---
8/6/2003		57.87		14.43	no sample collected		---	---	---	---	---	---	---	---	---
11/6/2003		57.79		14.51	ND<2,500	ND<25	ND<25	ND<25	ND<25	ND<50	ND<1000	ND<25	ND<25	All ND<25-50	ND<25
2/11/2004		57.67		14.63	---	---	---	---	---	---	---	---	---	---	---
5/14/2004		57.65		14.65	no sample collected		---	---	---	---	---	---	---	---	---
8/30/2004		57.70		14.60	no sample collected		---	---	---	---	---	---	---	---	---
11/22/2004		57.66		14.64	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		57.68		14.62	no sample collected		---	---	---	---	---	---	---	---	---
5/23/2005		57.70		14.60	no sample collected		---	---	---	---	---	---	---	---	---
8/1/2005		57.63		14.67	no sample collected		---	---	---	---	---	---	---	---	---

TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Groundwater Measurements: Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	Analytical Results: TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-9	71.60		5-10												
7/31/2002		59.83		11.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.1	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002		62.14		9.46	no sample collected		---	---	---	---	---	---	---	---	
2/13/2003		62.18		9.42	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		61.82		9.78	no sample collected		---	---	---	---	---	---	---	---	---
8/6/2003		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
11/6/2003		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
2/11/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
5/14/2004		61.70		9.90	no sample collected		---	---	---	---	---	---	---	---	---
8/30/2004		61.69		9.91	no sample collected		---	---	---	---	---	---	---	---	---
11/22/2004		61.71		9.89	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		61.71		9.89	no sample collected		---	---	---	---	---	---	---	---	---
5/23/2005		66.61		4.99	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	All ND<1.0	ND<1.0
8/1/2005		62.45		9.15	63	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
MW-10	71.35		5-10												
7/31/2002		62.28		9.07	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002		61.94		9.41	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		62.33		9.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		62.51		8.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
8/6/2003		62.27		9.08	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
11/6/2003		61.69		9.66	no sample collected		---	---	---	---	---	---	---	---	---
2/11/2004		63.37		7.98	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
5/14/2004		62.29		9.06	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
8/30/2004		61.97		9.38	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
11/22/2004		61.73		9.62	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		64.00		7.35	ND<50	4.2	ND<0.50	1.8	0.81	1.3	ND<10	ND<1.0	ND<1.0	---	ND<1.0
5/23/2005		61.93		9.42	no sample collected		---	---	---	---	---	---	---	---	---
8/1/2005		62.18		9.17	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
MW-11	71.82		5-10												
7/31/2002		62.86		8.96	420	190	ND<0.50	0.67	12.5	32	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002		62.49		9.33	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		63.06		8.76	120	15	ND<0.50	1.1	1.1	41	ND<60	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		63.27		8.55	79	5.5	ND<0.50	ND<0.50	ND<0.50	26	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
8/6/2003		62.86		8.96	73	8.3	ND<0.50	0.58	0.70	30	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
11/6/2003		62.41		9.41	120	1.8	ND<0.50	ND<0.50	ND<0.50	24	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
2/11/2004		62.21		9.61	---	---	---	---	---	---	---	---	---	---	---
5/14/2004		62.31		9.51	no sample collected		---	---	---	---	---	---	---	---	---
8/30/2004		62.31		9.51	no sample collected		---	---	---	---	---	---	---	---	---
11/22/2004		62.32		9.50	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		62.22		9.60	no sample collected		---	---	---	---	---	---	---	---	---
5/23/2005		67.02		4.80	70	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.1	ND<20	ND<1.0	---	---	---
8/1/2005		65.66		6.16	ND<0.50	0.75	ND<0.50	ND<0.50	0.52	9.5	ND<10	ND<1.0	ND<1.0	---	---
MW-12	72.44		28-30.9												
7/31/2002		43.21		29.23	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002		42.50		29.94	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		46.24		26.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		47.76		24.68	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
8/6/2003		44.07		28.37	ND<50	ND<0.50	1.1	0.68	2.17	ND<0.50	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
11/6/2003		43.01		29.43	65	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0

TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

WELL/ Sample Date	Groundwater Measurements: Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	Analytical Results: TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-12 Continued															
2/11/2004		46.69		25.75	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
5/14/2004		45.76		26.68	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
8/30/2004		43.20		29.24	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
11/22/2004		43.58		28.86	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
2/3/2005		46.01		26.43	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
5/23/2005		47.05		25.39	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
8/1/2005		47.00		25.44	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
MW-13	71.84		5-10												
7/31/2002		63.00		8.84	**5,700**	**360**	**890**	**140**	**1,070**	**13**	ND<10	ND<1.0	ND<1.0	All ND<1.0-2.0	ND<1.0
12/5/2002		62.67		9.17	no sample collected		---	---	---	---	---	---	---	---	---
2/13/2003		62.67		9.17	**6,700**	**580**	**50**	**530**	**1,476**	ND<20	ND<80	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		62.26		9.58	no sample collected		---	---	---	---	---	---	---	---	---
8/6/2003		62.23		9.61	no sample collected		---	---	---	---	---	---	---	---	---
11/6/2003		62.24		9.60	no sample collected		---	---	---	---	---	---	---	---	---
2/11/2004		62.21		9.63	no sample collected		---	---	---	---	---	---	---	---	---
5/14/2004		62.24		9.60	no sample collected		---	---	---	---	---	---	---	---	---
8/30/2004		62.23		9.61	no sample collected		---	---	---	---	---	---	---	---	---
11/22/2004		62.25		9.59	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
5/23/2005		67.00		4.84	**420**	**3.5**	ND<0.50	**7.7**	**3.9**	ND<1.0	ND<10	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
8/1/2005		63.06		8.78	no sample collected		---	---	---	---	---	---	---	---	---
MW-14	72.06		5-10												
7/31/2002		63.58		8.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**3.4**	ND<10	ND<1.0	ND<1.0	ND<1.0-2.0	ND<1.0
12/5/2002		62.73		9.33	no sample collected			---	---	---	---	---	---	---	---
2/13/2003		63.01		9.05	**580**	**83**	**7.9**	**28**	**36.4**	**8.2**	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		62.45		9.61	no sample collected		---	---	---	---	---	---	---	---	---
8/6/2003		62.35		9.71	no sample collected		---	---	---	---	---	---	---	---	---
11/6/2003		62.35		9.71	no sample collected		---	---	---	---	---	---	---	---	---
2/11/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
5/14/2004		63.04		9.02	**64**	ND<0.50	ND<0.50	**0.68**	ND<0.50	**5.0**	ND<10	ND<1.0	ND<1.0	---	ND<1.0
8/30/2004		62.73		9.33	**54**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.6**	ND<25	ND<1.0	ND<1.0	---	ND<1.0
11/22/2004		NA		dry	no sample collected		---	---	---	---	---	---	---	---	---
2/3/2005		62.44		9.62	no sample collected		---	---	---	---	---	---	---	---	---
5/23/2005		66.88		5.18	**210**	ND<0.50	ND<0.50	**3.9**	**4.3**	**2.1**	ND<10	ND<1.0	ND<1.0	---	ND<1.0
8/1/2005		63.02		9.04	no sample collected		---	---	---	---	---	---	---	---	---
MW-15	72.21		5-10												
7/31/2002		63.16		9.05	**9,900**	**1,100**	**1,300**	**310**	**1,710**	**45**	ND<20	**1.8**	ND<1.0	ND<1.0-2.0	All others ND
12/5/2002		62.82		9.39	no sample collected			---	---	---	---	---	---	---	---
2/13/2003		66.66		5.55	**8,000**	**270**	**4.7**	**850**	**791**	**24**	ND<50	**1.1**	ND<1.0	All ND<1.0	ND<1.0
5/21/2003		66.67		5.54	**6,800**	**100**	**4.1**	**480**	**257**	**14**	ND<20	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
8/6/2003		64.12		8.09	**5,500**	**310**	**8.9**	**640**	**465**	**20**	ND<20	**1.1**	ND<1.0	All ND<1.0	ND<1.0
11/6/2003		63.05		9.16	**4,700**	**200**	**5.1**	**330**	**205**	**24**	ND<20	**1.2**	ND<1.0	All ND<1.0	ND<1.0
2/11/2004		67.07		5.14	**3,800**	**40**	**1.7**	**200**	**106**	**16**	ND<30	ND<1.0	ND<1.0	---	ND<1.0
5/14/2004		66.26		5.95	**6,000**	**50**	**2.2**	**450**	**143**	**13**	ND<10	ND<1.0	ND<1.0	---	ND<1.0
8/30/2004		63.19		9.02	**4,000**	**39**	**2.0**	**240**	**89**	**19**	ND<25	**1.2**	ND<1.0	---	ND<1.0
11/22/2004		65.39		6.82	**3,700**	**54**	**2.7**	**340**	**210**	**20**	ND<170	**1.2**	ND<1.0	---	ND<1.0
2/3/2005		67.05		5.16	**3,100**	**16**	**1.4**	**160**	**71**	**13**	ND<20	ND<1.0	ND<1.0	---	ND<1.0
5/23/2005		66.79		5.42	**3,300**	**9.7**	**1.0**	**81**	**58**	ND<10	ND<15	ND<1.0	ND<1.0	---	ND<1.0
8/1/2005		65.76		6.45	**4,300**	**41**	**1.8**	**75**	**223**	ND<20	ND<20	ND<1.0	ND<1.0	---	ND<1.0

TABLE 1: GROUNDWATER ANALYTICAL RESULTS
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

	Groundwater Measurements				Analytical Results										
WELL/ Sample Date	Well Head Elevation (feet, NAVD-88)	Hydraulic Head (feet, NAVD-88)	Well Screen Interval (feet)	Depth to Water (feet)	TPHg (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)	Lead Scavengers (µg/L)	Other Analytes (µg/L)
MW-16	71.74		4-14												
8/30/2004		58.41		13.33	**3,200**	**26**	**85**	**16**	**323**	**36**	ND<10	ND<1.0	ND<1.0	---	ND<1.0
11/22/2004		58.02		13.72	**9,800**	**2,000**	**1,400**	**180**	**1,080**	**280**	**53**	**4.2**	ND<1.0	---	ND<1.0
2/3/2005		61.22		10.52	**4,300**	**180**	**22**	**300**	**980**	**72**	ND<35	**2.6**	ND<1.0	---	ND<1.0
5/23/2005		60.15		11.59	**2,400**	**120**	**4.3**	**160**	**242**	**24**	ND<10	ND<1.0	ND<1.0	---	ND<1.0
8/1/2005		58.00		13.74	**1,900**	**71**	**1.7**	**120**	**129**	**130**	ND<150	**4.9**	ND<1.0	---	ND<1.0
MW-17	71.50		4-14												
8/30/2004		57.82		13.68	**no sample collected**		---	---	---	---	---	---	---	---	---
11/22/2004		57.56		13.94	**no sample collected**		---	---	---	---	---	---	---	---	---
2/3/2005		59.78		11.72	**260**	**1.4**	ND<0.50	**3.3**	**8.0**	**190**	**83**	**7.3**	ND<1.0	---	ND<1.0
5/23/2005		59.39		12.11	**3,200**	**94.0**	**3**	**340.0**	**189.0**	**95**	ND<60	**3.7**	ND<1.0	---	ND<1.0
8/1/2005		57.80		13.70	**no sample collected**		---	---	---	---	---	---	---	---	---
MW-18	71.83		4-14												
8/30/2004		58.26		13.57	**580**	**6.3**	**14**	**4.4**	**95**	**17**	ND<10	**1.6**	ND<1.0	---	ND<1.0
11/22/2004		57.99		13.84	**7,400**	**2,000**	**460**	**200**	**890**	**190**	**85**	**13**	ND<1.0	---	ND<1.0
2/3/2005		59.81		12.02	**2,400**	**220**	**27**	**72**	**560**	**23**	ND<10	**2.5**	ND<1.0	---	ND<1.0
5/23/2005		66.58		5.25	**5,600**	**28**	**5.2**	**160**	**194**	ND<40	ND<20	**1.7**	ND<1.0	---	ND<1.0
8/1/2005		65.75		6.08	**7,700**	**67**	**5.9**	**280**	**553**	ND<80	ND<40	**3.4**	ND<1.0	---	ND<1.0

Notes:
TPHg - total petroleum hydrocarbons as gasoline
Xylenes - total of m,p-xylenes and o-xylenes
Fuel oxygenates include:
MTBE- methyl tertiary butyl ether-
ETBE - ethyl tertiary butyl ether
TAME - tertiary amyl methyl ether
TBA - teriary butyl alcohol
DIPE - Di-isopropyl ether

All results reported in micrograms per liter (µg/L)
ND - non-detect at the reporting limit shown (µg/L)
Bold results indicate analyte detection
--- Not sampled

TABLE 2: HISTORIC HYDRAULIC GRADIENT DATA
HPI R Village Texaco
723 South Fortuna Blvd, Fortuna
LACO No. 4329.02; LOP No. 12551

Date	Shallow Aquifer		Deep Aquifer	
	Direction	Slope	Direction	Slope
11/9/2000	NA	NA	NA	NA
12/12/2000	NA	NA	NA	NA
12/5/2002	S72°E	3.7%	NA	NA
2/13/2003	S82°W	6.1%	S50°W	5.5%
5/21/2003	S43°E	4.6%	S49°W	4.8%
8/6/2003	S43°W	4.4%	NA	NA
11/6/2003	S70°E	3.5%	NA	NA
2/11/2004	S42°E	4.6%	S49°W	6.6%
5/14/2004	S38°E	4.2%	S57°W	8.2%
8/30/2004	NA	NA	NA	NA
11/22/2004	S61°E	NA	NA	NA
2/3/2005	NA	NA	S50°W	7.7%
5/23/2005	N42°E	4.2%	S45°W	4.3%
8/1/2005	S20°E	3.1%	NA	NA

Attachment 1

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

Project Name: R Village Texaco
Project No.: 4329.02
Date: 8-1-05
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD
Mob/Demob time: .50/.25
Travel time: 1.0
Time on site: 8:45
Time off site: 1:10
Mileage: 37

WELL No.:	MW4		MW5		MW6		MW7		MW8	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	3-10		15-24.1		3-10		15-26.3		10-15	
DEPTH TO WATER (ft)	5.87		DRY		5.70		DRY		14.87	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	7.2	5.5								
TEMP (°C)	20.0	20.0								
Ecw (µmohs)	276	252								
ORP (mV)	-2	46								
DO (mg/L)	1.25	0.56								
OTHER (units)	—									
PURGE: TIME	10:18	10:28								
METHOD (DHP/CB/B)	DHP									
RATE (Lpm)	0.18									
VOLUME (L)	1.75									
COLOR	CLEAR	CLEAR								
ODOR	LIGHT RUBBER/SWEET									
INTAKE DEPTH (FEET)	8.5									
SAMPLE: TIME	10:29		—				—		—	
METHOD (DHP/CB/B)	DHP		—				—		—	
ANALYTES	8260 List 1		8260 List 1		8260 List 5		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)	0.55		—				—		—	
REMARKS	—		—				—		TOTAL DEPTH OF WELL 14.87	
WELL CONDITION	good		good		good		good		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

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
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Project Name: R Village Texaco
Project No.: 4329.02
Date: 8-1-05
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD
Mob/Demob time: .50/.25
Travel time: 1.0
Time on site: 8:45
Time off site: 1:10
Mileage: 37

WELL No.:	MW9		MW10		MW11		MW12		MW13	
DIAMETER (in)	2.00		2.00		2.00		1.50		2.00	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		28-30.9		5 - 10	
DEPTH TO WATER (ft)	9.15		9.17		6.16		25.44		8.78	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH					6.2	6.0				
TEMP (°C)					21.1	22.3				
Ecw (µmohs)					287	262				
ORP (mV)					-41	-35				
DO (mg/L)					0.89	0.46				
OTHER (units)										
PURGE: TIME					11:11	11:19	12:08	12:14		
METHOD (DHP/CB/B)					DHP		3/4" B			
RATE (Lpm)					0.19		0.17			
VOLUME (L)					1.50		1.0			
COLOR	BROWNISH WHITE MILKY	→	LT. BROWN TURBID	TURBID	MED. GREY TURBID	LT. GREY CLOUDY	LT. GREY TURBID	→		
ODOR	LIGHT SULFUR		LIGHT SULFUR		LIGHT SULFUR		LIGHT SULFUR			
INTAKE DEPTH (FEET)	—		—		9.0		—			
SAMPLE: TIME	12:37		12:50		11:20		12:16			
METHOD (DHP/CB/B)	3/4" B		3/4" B		DHP		3/4" B			
ANALYTES	8260 List 1		8260 List 1		8260 List 1		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)	—		—		0.76		—			
REMARKS	—		—		—		—			
WELL CONDITION	good		good		good		good		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

LACO ASSOCIATES
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Project Name: R Village Texaco
Project No.: 4329.02
Date: 8-1-05
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD
Mobe/Demobe time: 1.50/.25
Travel time: 1.0
Time on site: 8:45
Time off site: 1:10
Mileage: 37

WELL No.:	MW14		MW15		MW16		MW17		MW18	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	5-10		5-10		4-14		4-14		4-14	
DEPTH TO WATER (ft)	9.04		6.45		13.44		13.70		6.08	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH			6.4	6.0					6.2	6.0
TEMP (°C)			20.3	20.7					19.3	20.3
Ecw (µmohs)			288	284					318	304
ORP (mV)			-22	-36					-17	-33
DO (mg/L)			1.06	0.26					1.17	0.51
OTHER (units)										
PURGE: TIME			11:37	11:45					10:44	10:52
METHOD (DHP/CB/B)			DHP						DHP	
RATE (Lpm)			0.20						0.19	
VOLUME (L)			1.60						1.50	
COLOR			CLEAR	CLOUDY					CLOUDY	CLOUDY
ODOR			STRONG RUBBER						STRONG RUBBER	
INTAKE DEPTH (FEET)			9.0						9.0	
SAMPLE: TIME			11:46						10:53	
METHOD (DHP/CB/B)			DHP						DHP	
ANALYTES	8260 List 1		8260 List 1		8260 List 1		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)			0.98						0.54	
REMARKS										
WELL CONDITION	good		good		good		good		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

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: R. VILLAGE TEXACO
Project No.: 4329.02

Tech: SJD
Date: 8-1-05

WELL ID:	METER ACCURACY RANGE				
mw4	+/- 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)
10:20	6.0	20.1	269	35	1.08
10:22	5.7	20.0	262	42	0.87
10:24	5.6	20.0	258	45	0.88
10:26	5.5	20.0	255	46	0.64
10:28	5.5	20.0	252	46	0.56

WELL ID: mw18

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:46	6.0	19.5	314	-26	1.10
10:48	6.0	19.8	310	-30	0.87
10:50	6.0	20.1	306	-33	0.63
10:52	6.0	20.3	304	-33	0.51

WELL ID: mw11

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:13	6.1	21.4	293	-51	0.48
11:15	6.0	21.6	264	-38	0.56
11:17	6.0	22.1	265	-35	0.51
11:19	6.0	22.3	262	-35	0.46

WELL ID: mw15

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:39	6.1	20.5	291	-28	0.85
11:41	6.1	20.5	289	-32	0.53
11:43	6.0	20.5	287	-35	0.34
11:45	6.0	20.7	284	-36	0.26

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
CONSULTING ENGINEERS

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

Project Name: R Village Texaco
Project No.: 4329.02
Date: 6-1-05
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD
Mob/Demob time: 150/.25
Travel time: 1.0
Time on site: 8:45
Time off site: 1:10
Mileage: 37

WELL No.:	MW4		MW5		MW6		MW7		MW8	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	3-10		15-24.1		3-10		15-26.3		10-15	
DEPTH TO WATER (ft)					5.78		DRY			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH					6.11	[illegible]				
TEMP (°C)					18.3	[illegible]				
Ecw (µmohs)					331	324				
ORP (mV)					11	-3				
DO (mg/L)					1.16	2.57				
OTHER (units)										
PURGE: TIME					10:11	10:17				
METHOD (DHP/CB/B)					DHP					
RATE (Lpm)					2.35					
VOLUME (L)					1.5					
COLOR					CLEAR	[illegible]				
ODOR					[illegible]					
INTAKE DEPTH (FEET)					[illegible]					
SAMPLE: TIME					10:19					
METHOD (DHP/CB/B)					DHP					
ANALYTES	8260 List 1		8260 List 1		8260 List 5		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)					3.80					
REMARKS										
WELL CONDITION					[illegible]		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

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

Project Name: R Village Texaco
Project No.: 4329.02
Date: 8-1-05
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD
Mob/Demob time: 150/1.25
Travel time: 1.0
Time on site: 8145
Time off site: 1100
Mileage: 37

WELL No.:	MW9		MW10		MW11		MW12		MW13	
DIAMETER (in)	2.00		2.00		2.00		1.50		2.00	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		28-30.9		5 - 10	
DEPTH TO WATER (ft)									5.78	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	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										
METHOD (DHP/CB/B)										
ANALYTES	8260 List 1		8260 List 1		8260 List 1		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)										
REMARKS										
WELL CONDITION									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

REVISED:7/28/2005

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

Project Name: R Village Texaco
Project No.: 4329.02
Date: 8-1-05
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD
Mobe/Demobe time: .50/.25
Travel time: 1.0
Time on site: 8:45
Time off site: 11:10
Mileage: 37

WELL No.:	MW14		MW15		MW16		MW17		MW18	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	5-10		5-10		4-14		4-14		4-14	
DEPTH TO WATER (ft)	9.04				13.74		13.72			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	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							12:15			
METHOD (DHP/CB/B)							B			
ANALYTES	8260 List 1		8260 List 1		8260 List 1		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)										
REMARKS	NOT ENOUGH WATER TO GET SAMPLE				WELL DEPTH 13.79		ONLY ENOUGH H_2O TO FILL 1-1/2 VOAs			
WELL CONDITION	GOOD				GOOD		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

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: R. Village Texaco
Project No.: 2224.52

Tech: [illegible]
Date: [illegible]

WELL ID:	METER ACCURACY RANGE				
MW6	+/- 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)
10:13	6.01	16.2	153	7	0.78
10:15	6.02	17.7	209	5	0.50
10:17	6.02	17.6	232	-1	0.50
10:18	6.03	17.6	224	-3	0.49

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)

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

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: R. VILLAGE TEXACO

Project No.: 4329.02

Tech: SJD/RCD

Date: 8-1-05

WELL ID: MW4		WELL ID: MW5		WELL ID: MW6		WELL ID: MW7		WELL ID: MW8		WELL ID: MW9	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:05	5.87	9:07	DRY	9:07	5.20	9:10	DRY	9:10	14.67	9:16	9.15
9:27	5.87			9:25	5.20			9:30	14.67	9:43	9.15

WELL ID: MW10		WELL ID: MW11		WELL ID: MW12		WELL ID: MW13		WELL ID: MW14		WELL ID: MW15	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:18	9.17	9:20	6.16	9:13	25.44	9:13	8.78	9:16	9.04	9:22	6.45
9:45	9.17	9:36	6.16	9:33	25.44	9:30	8.78	9:32	9.04	9:38	6.45

WELL ID: MW16		WELL ID: MW17		WELL ID: MW18		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:18	13.74	9:21	13.74	9:24	6.08						
9:34	13.74	9:36	13.70	9:40	6.08						

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: (707) 443-5054
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: 4329.02
Project Name: HPI - R Village Texaco
Purchase Order Number: task 3027

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS: 8260 List 1	ANALYSIS: 8260 List5	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4329-MW4-W	8-1-05	AM	GW	b	9			GEOTRACKER
							3		
	4329-MW6-W				b	9		3	LIMITED VOLUME (1 - 1/2 VOAS)
							3		
							3		
	4329-MW9-W						3		
	4329-MW10-W						3		
	4329-MW11-W						3		
	4329-MW12-W						3		
			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.
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: (707) 443-5054
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: 4329.02
Project Name: HPI - R Village Texaco
Purchase Order Number: task 3027

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS
		8-1-05	AM	GW	b	9	8260 List 1
	4329-MW15-W	↓	↓	↓			3
	4329-QCTB-W	↓	PM	↓			1

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

NORTH COAST LABORATORIES LTD.

RECEIVED
LACO ASSOCIATES
AUG 17 2005
BY:

August 12, 2005

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

Attn: Accounts Payable

RE: 4329.02, HPI -R Village Texaco

Order No.: 0508050
Invoice No.: 52003
PO No.: TASK 3027
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4329-MW4-W
02A	4329-MW6-W
03A	4329-MW9-W
04A	4329-MW10-W
05A	4329-MW11-W
06A	4329-MW12-W
07A	4329-MW15-W
08A	4329-QCTB-W
09A	4329-MW18-W
10A	4329-MW16-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
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

CLIENT: LACO Associates
Project: 4329.02, HPI -R Village Texaco
Lab Order: 0508050

CASE NARRATIVE

Gasoline Components/Additives:
Samples 4329-MW15-W, 4329-MW18-W and 4329-MW16-W appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline values for samples 4329-MW4-W and 4329-MW6-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

Some reporting limits were raised for samples 4329-MW6-W, 4329-MW15-W, 4329-MW18-W and 4329-MW16-W due to matrix interference.

Sample 4329-MW9-W does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

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Date: 12-Aug-05
WorkOrder: 0508050

ANALYTICAL REPORT

Client Sample ID: 4329-MW4-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-01A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	610	50	µg/L	50		8/10/05
Tert-butyl alcohol (TBA)	250	10	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	2.9	1.0	µg/L	1.0		8/10/05
Benzene	5.7	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	35	1.0	µg/L	1.0		8/10/05
Toluene	ND	0.50	µg/L	1.0		8/10/05
Ethylbenzene	19	0.50	µg/L	1.0		8/10/05
m,p-Xylene	2.0	0.50	µg/L	1.0		8/10/05
o-Xylene	ND	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	102	80.8-139	% Rec	1.0		8/10/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,700	50	µg/L	1.0		8/10/05

Client Sample ID: 4329-MW6-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-02A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	25,000	1,000	µg/L	1,000		8/11/05
Tert-butyl alcohol (TBA)	960	100	µg/L	10		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	99	10	µg/L	10		8/10/05
Benzene	5,200	500	µg/L	1,000		8/11/05
Tert-amyl methyl ether (TAME)	330	10	µg/L	10		8/10/05
1,2-Dichloroethane	ND	6.0	µg/L	1.0		8/10/05
Toluene	33	0.50	µg/L	1.0		8/10/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		8/10/05
Chlorobenzene	ND	1.0	µg/L	1.0		8/10/05
Ethylbenzene	1,800	500	µg/L	1,000		8/11/05
m,p-Xylene	720	5.0	µg/L	10		8/10/05
o-Xylene	150	5.0	µg/L	10		8/10/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		8/10/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		8/10/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	104	80.8-139	% Rec	1.0		8/10/05

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Printed on Recycled Paper

Date: 12-Aug-05
WorkOrder: 0508050

ANALYTICAL REPORT

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	36,000	5,000	µg/L	100		8/10/05

Client Sample ID: 4329-MW9-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-03A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		8/10/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	ND	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		8/10/05
Toluene	ND	0.50	µg/L	1.0		8/10/05
Ethylbenzene	ND	0.50	µg/L	1.0		8/10/05
m,p-Xylene	ND	0.50	µg/L	1.0		8/10/05
o-Xylene	ND	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	113	80.8-139	% Rec	1.0		8/10/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	63	50	µg/L	1.0		8/10/05

Client Sample ID: 4329-MW10-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-04A **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	1.0	µg/L	1.0		8/10/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	ND	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		8/10/05
Toluene	ND	0.50	µg/L	1.0		8/10/05
Ethylbenzene	ND	0.50	µg/L	1.0		8/10/05
m,p-Xylene	ND	0.50	µg/L	1.0		8/10/05
o-Xylene	ND	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	105	80.8-139	% Rec	1.0		8/10/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed

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ANALYTICAL REPORT

TPHC Gasoline	ND	50	µg/L	1.0	8/10/05

Client Sample ID: 4329-MW11-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-05A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	9.5	1.0	µg/L	1.0		8/10/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	0.75	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		8/10/05
Toluene	ND	0.50	µg/L	1.0		8/10/05
Ethylbenzene	ND	0.50	µg/L	1.0		8/10/05
m,p-Xylene	0.52	0.50	µg/L	1.0		8/10/05
o-Xylene	ND	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	103	80.8-139	% Rec	1.0		8/10/05

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		8/10/05

Client Sample ID: 4329-MW12-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-06A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		8/10/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	ND	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		8/10/05
Toluene	ND	0.50	µg/L	1.0		8/10/05
Ethylbenzene	ND	0.50	µg/L	1.0		8/10/05
m,p-Xylene	ND	0.50	µg/L	1.0		8/10/05
o-Xylene	ND	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	105	80.8-139	% Rec	1.0		8/10/05

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		8/10/05

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Date: 12-Aug-05
WorkOrder: 0508050

ANALYTICAL REPORT

Client Sample ID: 4329-MW15-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-07A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	20	µg/L	1.0		8/10/05
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	41	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		8/10/05
Toluene	1.8	0.50	µg/L	1.0		8/10/05
Ethylbenzene	75	0.50	µg/L	1.0		8/10/05
m,p-Xylene	190	5.0	µg/L	10		8/10/05
o-Xylene	33	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	107	80.8-139	% Rec	1.0		8/10/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	4,300	500	µg/L	10		8/10/05

Client Sample ID: 4329-QCTB-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-08A **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		8/9/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		8/9/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/9/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/9/05
Benzene	ND	0.50	µg/L	1.0		8/9/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		8/9/05
Toluene	ND	0.50	µg/L	1.0		8/9/05
Ethylbenzene	ND	0.50	µg/L	1.0		8/9/05
m,p-Xylene	ND	0.50	µg/L	1.0		8/9/05
o-Xylene	ND	0.50	µg/L	1.0		8/9/05
Surrogate: 1,4-Dichlorobenzene-d4	101	80.8-139	% Rec	1.0		8/9/05

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		8/9/05

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WorkOrder: 0508050

ANALYTICAL REPORT

Client Sample ID: 4329-MW18-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-09A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	80	µg/L	1.0		8/10/05
Tert-butyl alcohol (TBA)	ND	40	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	67	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	3.4	1.0	µg/L	1.0		8/10/05
Toluene	5.9	0.50	µg/L	1.0		8/10/05
Ethylbenzene	280	10	µg/L	20		8/10/05
m,p-Xylene	480	10	µg/L	20		8/10/05
o-Xylene	73	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	104	80.8-139	% Rec	1.0		8/10/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	7,700	1,000	µg/L	20		8/10/05

Client Sample ID: 4329-MW16-W **Received:** 8/1/05 **Collected:** 8/1/05 0:00
Lab ID: 0508050-10A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	130	20	µg/L	20		8/10/05
Tert-butyl alcohol (TBA)	ND	150	µg/L	1.0		8/10/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		8/10/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		8/10/05
Benzene	71	0.50	µg/L	1.0		8/10/05
Tert-amyl methyl ether (TAME)	4.9	1.0	µg/L	1.0		8/10/05
Toluene	1.7	0.50	µg/L	1.0		8/10/05
Ethylbenzene	120	10	µg/L	20		8/10/05
m,p-Xylene	120	0.50	µg/L	1.0		8/10/05
o-Xylene	9.3	0.50	µg/L	1.0		8/10/05
Surrogate: 1,4-Dichlorobenzene-d4	104	80.8-139	% Rec	1.0		8/10/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,900	50	µg/L	1.0		8/10/05

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North Coast Laboratories, Ltd.

Date: 12-Aug-05

CLIENT: LACO Associates
Work Order: 0508050
Project: 4329.02, HPI -R Village Texaco

QC SUMMARY REPORT

Method Blank

Sample ID **MB 080905** Batch ID: **R36342** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **8/9/05 9:07:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_050809B** SeqNo: **522773**

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									
Toluene	ND	0.50									
Ethylbenzene	0.09773	0.50									J
m,p-Xylene	0.1856	0.50									J
o-Xylene	0.1214	0.50									J
1,4-Dichlorobenzene-d4	1.01	0.10	1.00	0	101%	81	139	0			

Sample ID **MB 080905** Batch ID: **R36341** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **8/9/05 9:07:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_050809A** SeqNo: **522748**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	17.96	50									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: 12-Aug-05

CLIENT: LACO Associates
Work Order: 0508050
Project: 4329.02, HPI -R Village Texaco

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05505** Batch ID: **R36342** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **8/9/05 6:34:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_050809B** SeqNo: **522771**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.10	1.0	20.0	0	95.5%	80	120	0			
Tert-butyl alcohol (TBA)	395.5	10	400	0	98.9%	25	162	0			
Di-isopropyl ether (DIPE)	19.68	1.0	20.0	0	98.4%	80	120	0			
Ethyl tert-butyl ether (ETBE)	19.42	1.0	20.0	0	97.1%	77	120	0			
Benzene	19.64	0.50	20.0	0	98.2%	78	117	0			
Tert-amyl methyl ether (TAME)	19.07	1.0	20.0	0	95.3%	64	136	0			
Toluene	19.73	0.50	20.0	0	98.6%	80	120	0			
Ethylbenzene	19.20	0.50	20.0	0	96.0%	80	120	0			
m,p-Xylene	38.60	0.50	40.0	0	96.5%	80	120	0			
o-Xylene	18.59	0.50	20.0	0	93.0%	80	120	0			
1,4-Dichlorobenzene-d4	1.08	0.10	1.00	0	108%	81	139	0			

Sample ID **LCSD-05505** Batch ID: **R36342** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **8/9/05 7:00:00 AM** Prep Date

Client ID: Run ID: **ORGCMS3_050809B** SeqNo: **522772**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.02	1.0	20.0	0	95.1%	80	120	19.1	0.413%	20	
Tert-butyl alcohol (TBA)	392.3	10	400	0	98.1%	25	162	396	0.812%	20	
Di-isopropyl ether (DIPE)	19.46	1.0	20.0	0	97.3%	80	120	19.7	1.13%	20	
Ethyl tert-butyl ether (ETBE)	19.15	1.0	20.0	0	95.7%	77	120	19.4	1.39%	20	
Benzene	19.70	0.50	20.0	0	98.5%	78	117	19.6	0.297%	20	
Tert-amyl methyl ether (TAME)	19.03	1.0	20.0	0	95.1%	64	136	19.1	0.209%	20	
Toluene	19.52	0.50	20.0	0	97.6%	80	120	19.7	1.09%	20	
Ethylbenzene	19.02	0.50	20.0	0	95.1%	80	120	19.2	0.907%	20	
m,p-Xylene	38.52	0.50	40.0	0	96.3%	80	120	38.6	0.186%	20	
o-Xylene	18.65	0.50	20.0	0	93.2%	80	120	18.6	0.299%	20	
1,4-Dichlorobenzene-d4	1.08	0.10	1.00	0	108%	81	139	1.08	0.0947%	20	

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

CLIENT: LACO Associates
Work Order: 0508050
Project: 4329.02, HPI -R Village Texaco

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05506** Batch ID: **R36341** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **8/9/05 7:51:00 AM** Prep Date
Client ID: Run ID: **ORGCMS3_050809A** SeqNo: **522746**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	937.7	50	1,000	0	93.8%	80	120	0			

Sample ID **LCSD-05506** Batch ID: **R36341** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **8/9/05 8:16:00 AM** Prep Date
Client ID: Run ID: **ORGCMS3_050809A** SeqNo: **522747**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	917.0	50	1,000	0	91.7%	80	120	938	2.24%	20	

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

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Chain of Custody

LABORATORY NUMBER: 0508050

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
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: 4329.02
Project Name: HPI - R Village Texaco
Purchase Order Number: task 3027

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 1	CONTAINER: 9	PRESERVATIVE: b	ANALYSIS: 8260 List5	CONTAINER: 9	PRESERVATIVE: b	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4329-MW4-W	8-1-05	AM	GW	3						GEOTRACKER
					N						
	4329-MW6-W							3			LIMITED VOLUME (1 - 1/2 VOA'S)
	4329-MW9-W				3						
	4329-MW10-W				3						
	4329-MW11-W				3						
	4329-MW12-W				3						
			PM		3						Cold intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	8-1-05 4:19 pm	R. Thompson	8/1/05 1620

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

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Chain of Custody

LABORATORY NUMBER: 0508050

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W 4th St. Eureka CA 95501
Phone: (707) 443-5054
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: 4329.02
Project Name: HPI - R Village Texaco
Purchase Order Number: task 3027

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	ANALYSIS: 8260 List 1	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
		8-1-05	AM	GW				GEOTRACKER
	4329-MW15-W	↓	↓	↓	9	b	3	
	4329-MW16-W							* limited sample volume
	4329-MW18-W						3	
	4329-QCTB-W		PM				1	
								cold, intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	8-1-05 4:19 PM		8/1/05 1620

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