LACO ASSOCIATES
ENGINEERS · GEOLOGISTS · ENVIRONMENTAL CONSULTANTS
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June 21, 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; Second Quarter 2005
HPI Redwood Village Texaco, 723 South Fortuna Blvd., Fortuna, California
LOP No: 12551

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the second 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 M. Thomson
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:cs

Attachments

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

P:\4000\4329 HPI R-Village Texaco\Submittals\GMRs\2005\2nd Q '05\4329.02_2Q05_GMR.doc

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GROUNDWATER MONITORING REPORT

SECOND QUARTER 2005

HPI Redwood Village Texaco; 723 South Fortuna Blvd., Fortuna, California

LOP No. 12553; LACO Project No. 4329.02

INTRODUCTION:

Field activities were conducted on May 23, 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: Redwood Village was built on raw agriculture property.
- 1990: Humboldt Petroleum, Incorporated (HPI) purchased the subject property.
- 1996: Three 10,000 gallon gasoline underground storage tanks (USTs) were removed and replace with two new, steel fiberglass-coated double-walled tanks and fiberglass piping. Approximately 710 tons of contaminated soil from the cavity and surrounding soil were excavated.
- 1998: Three monitoring wells were installed. The high concentrations of total petroleum hydrocarbons as gasoline (TPHg) in monitoring well MW-2 lead to further investigation.
- 1999: Four borings were installed. The field geologist observed two distinct aquifers separated by an aquitard.
- 2000: Five monitoring wells were installed and the previous monitoring wells (MW1 through MW3) were destroyed.
- 2001: Seventeen borings were installed to further delineate the plume.
- 2002: Monitoring wells MW9 through MW15 were installed.
- 2004: Sixteen borings were installed to monitor plume stability.

TABLE A Quarterly Sampling Parameters: May 23, 2005, Sampling Event						
MONITORING WELL ID	SCREENED INTERVAL	DTW (feet)	PURGE METHOD	WATER QUALITY	ANALYTICALS ORGANICS	SAMPLING SCHEDULE
MW4	3-10	5.38	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW5	15-24.1	21.84	3/4" Bailer	Not Tested		
MW6	3-10	7.49	DHP	ORP, DO		
MW7	15-26.3	25.16	3/4" Bailer	Not Tested		
MW8	10-15	14.6	Attempted Bail	Not Tested		
MW9	5-10	4.99	DHP	ORP, DO		
MW10	5-10	9.42	Not Enough Water to Sample			
MW11	5-10	4.88	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW12	28-30.9	25.39	3/4" Bailer	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW13	5-10	4.84	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW14	5-10	5.18	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW15	5-10	5.42	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW16	4-14	11.59	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW17	4-14	12.11	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW18	4-14	5.25	DHP	ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly

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 MW13. These monitoring wells were selected because they are located along the site perimeter and thus represent the hydraulic gradient over the site. The hydraulic gradient for the shallow wells for this sampling event was estimated at 4.20 percent in a N42°E direction (Figure 3). The hydraulic gradient in the deep aquifer was calculated using the three-point method in the area defined by monitoring wells MW5, MW7, and MW12. The hydraulic gradient for the deep wells for this sampling event was 4.30 percent in the S45°W direction (Figure 4). The calculated gradient for the shallow and deep aquifers is relatively consistent with previous measuring events (Table 2).

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, MW18, MW15, MW11, and MW10. Table B, included below, contains screen interval information for monitoring wells MW4, MW18, MW15, MW11, and MW10.

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 5-foot difference in hydraulic head between monitoring wells MW11 and MW10, 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. In particular, the screen interval of monitoring well MW15 appears to intersect a clayey silt to silty clay lens, which may be acting as a perching layer in the immediate vicinity. The elevated hydraulic head elevations of monitoring wells MW4, MW11, MW18, and MW15 may be caused by recharge during the rainy season or 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 May 23, 2005

WELL	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylben-zene (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	1,900	5.9	ND<0.50	19	1.5	530	220	31	2.6	---	ND<1.0
MW5	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
MW6	43,000	4,700	230	2,100	1,500	20,000	1100	280	91	ND<1.0-10	---
MW7	no sample collected										
MW8	no sample collected										
MW9	no sample collected										
MW10	no sample collected										
MW11	70	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.10	ND<20	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	---	
MW13	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
MW14	210	ND<0.50	ND<0.50	3.9	4.3	2.1	ND<10	ND<1.0	ND<1.0	---	ND<1.0
MW15	3,300	9.7	1.0	81	58	ND<10	ND<15	ND<1.0	ND<1.0	---	ND<1.0
MW16	2,400	120	4.3	160	242	24	ND<10	ND<1.0	ND<1.0	---	ND<1.0
MW17	3,200	94.0	3	340	189	95	ND<60	3.7	ND<1.0	---	ND<1.0
MW18	5,600	28	5.2	160	194	ND<40	ND<20	1.7	ND<1.0	---	ND<1.0

The laboratory notes that samples collected from monitoring wells MW4, MW6, MW14, MW16, MW17, 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 historical concentrations (Table 1). Monitoring wells MW9, MW12, and MW5 have had no

analyte detection since 2002, 2003, and 2004, respectively. Exceptions to this include monitoring wells MW16 through MW18, in which sampling began in August 2004, and do not have a sufficient set of data points. Analyte concentrations in monitoring well MW17 are relatively high compared to the previous monitoring events, possibly due to a higher water column.

RECOMMENDATIONS

- Continue with the current sampling protocol. The next sampling event is scheduled for August 2005.
- Remediation processes are pending approval from the Underground Storage Tank Clean-up Fund.

LIST OF FIGURES, TABLES, AND ATTACHMENTS

Figure 1: Location Map

Figure 2: Site Map

Figure 3: Hydraulic Gradient Map (Shallow Aquifer) for May 25, 2005

Figure 4: Hydraulic Gradient Map (Deep Aquifer) for May 25, 2005

Figure 5: Analyte Concentrations in Groundwater for May 25, 2005

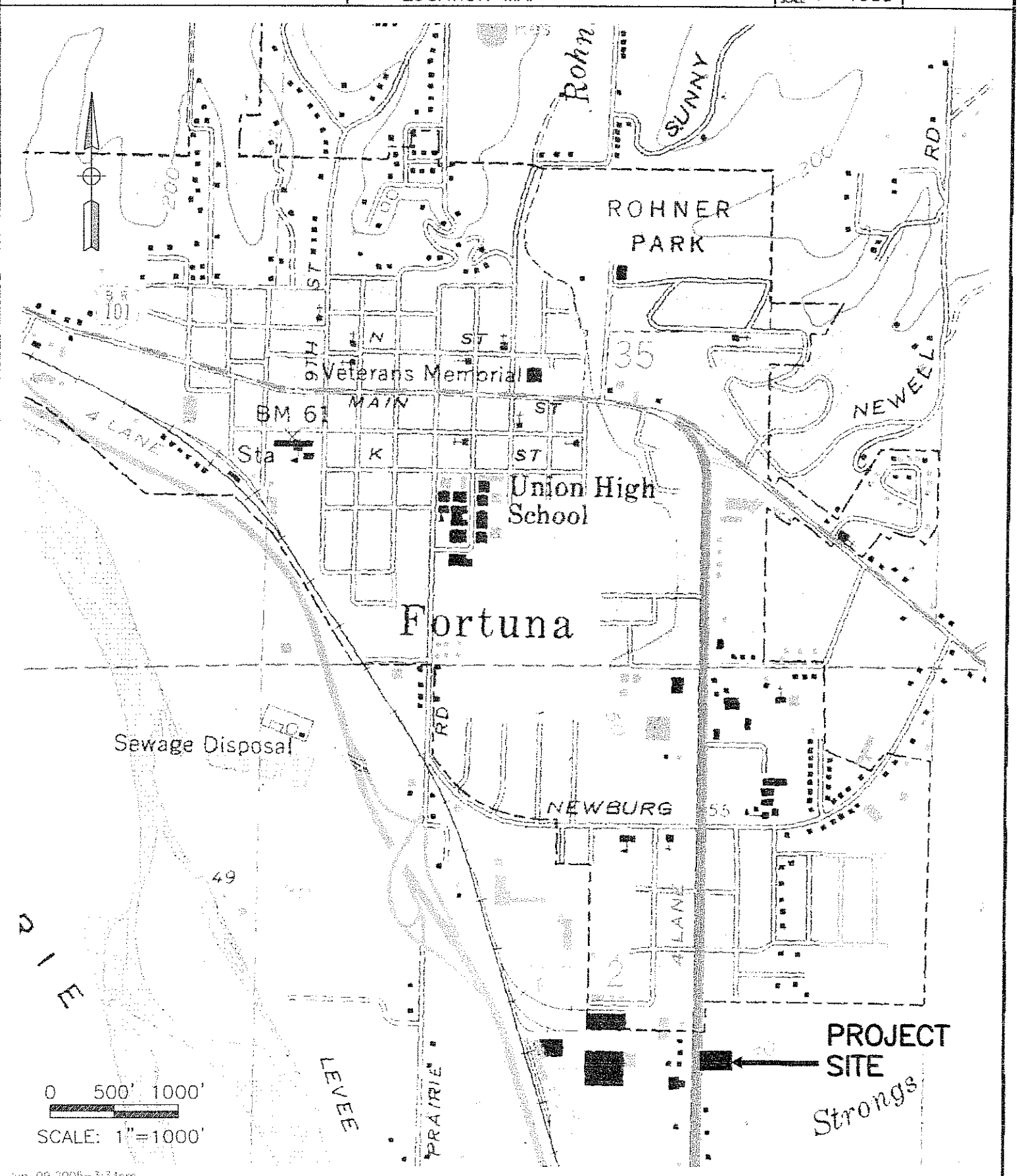
Table 1: Quarterly Groundwater Analytical Results

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 4/12/05	
	LOCATION R. VILLAGE TEXACO	CHECK	JOB NO. 4329.02
	LOCATION MAP	SCALE 1"=1000'	



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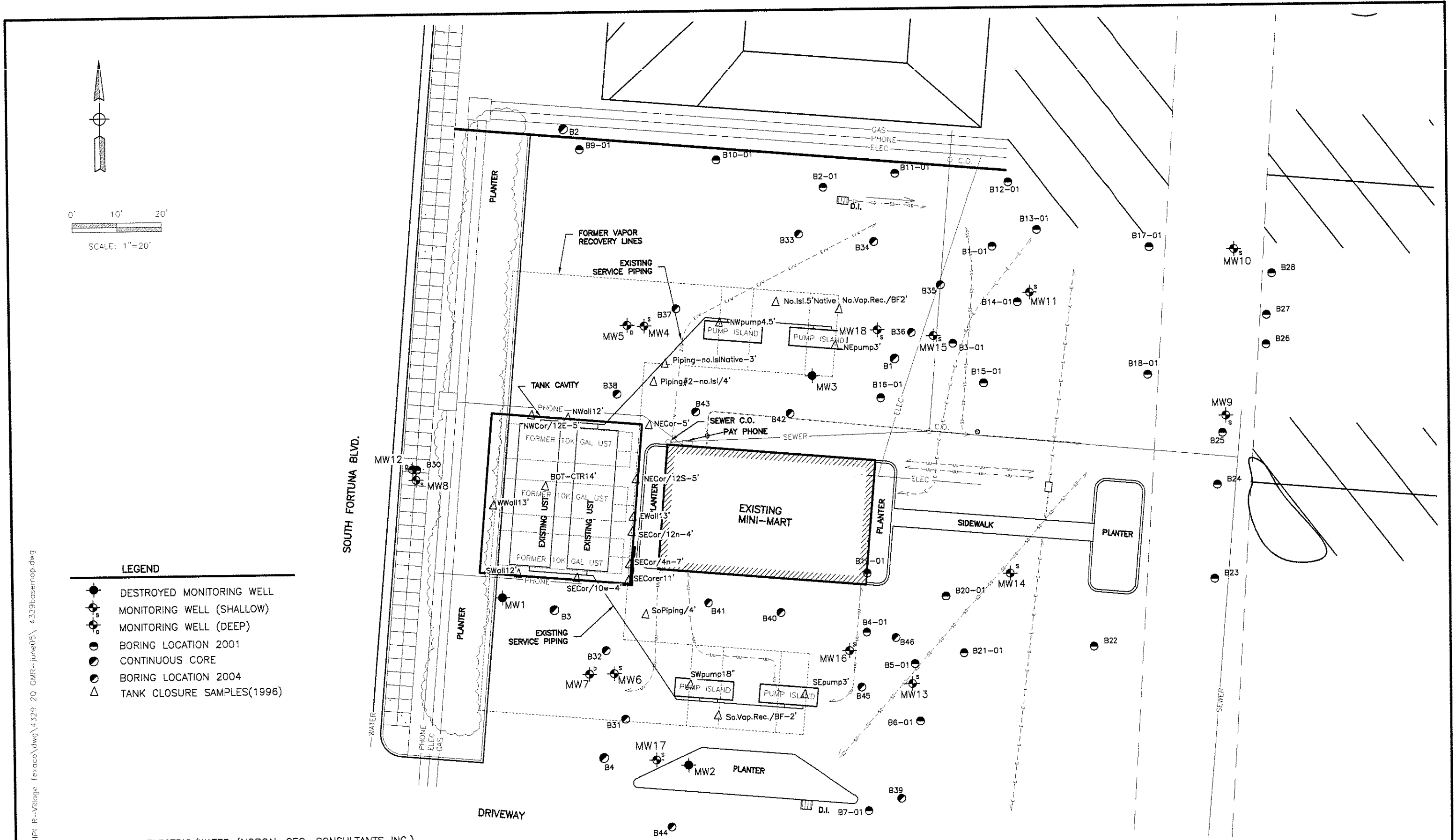
T:\CADFILES\4000\4329 HPI R-Village Texaco\dwg\4329 2Q GMR-june05\ 4329FIG1.dwg



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.)

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	
DATE	6/09/05
JOB NO.	4329.02
FIGURE	2

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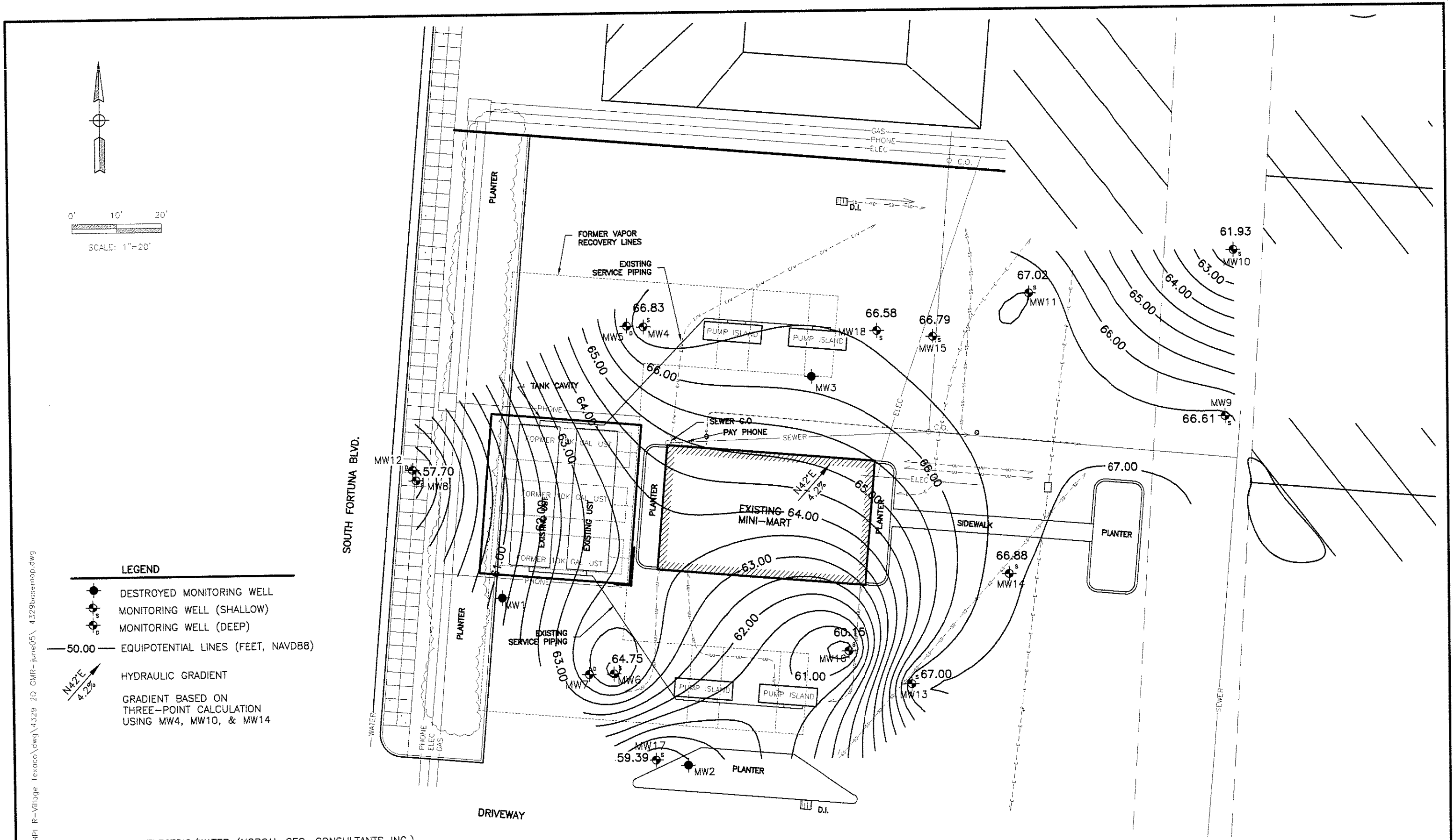

NO.	REVISION	BY	CHK	DATE

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

GROUNDWATER MONITORING REPORT
HYDRAULIC HEAD MAP - SHALLOW AQUIFER (5/23/05)

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	6/10/05
JOB NO.	4329.02
FIGURE	3

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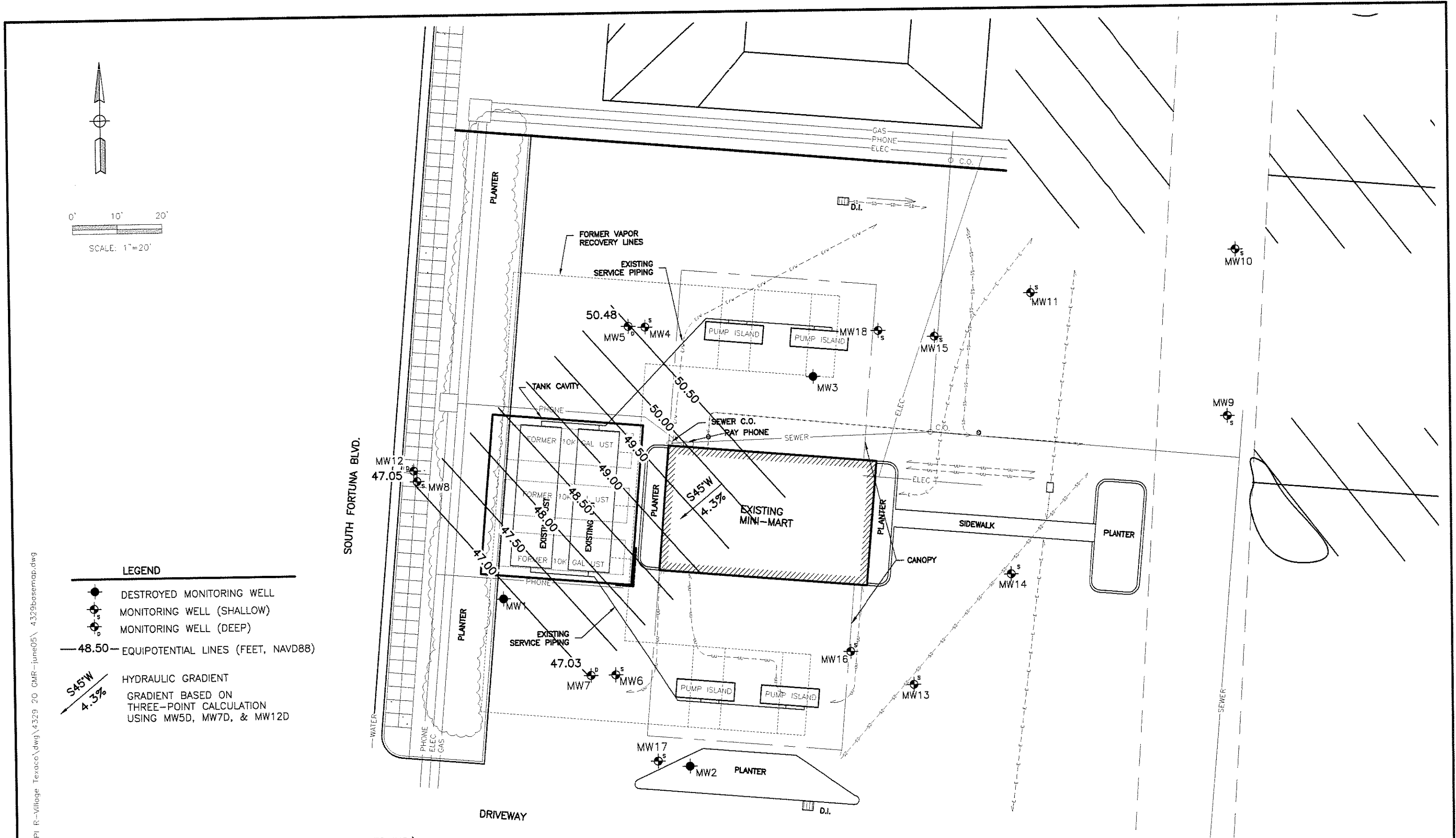

LEGEND

- DESTROYED MONITORING WELL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- —48.50— EQUIPOTENTIAL LINES (FEET, NAVD88)
- S45°W / 4.3% HYDRAULIC GRADIENT — GRADIENT BASED ON THREE-POINT CALCULATION USING MW5D, MW7D, & MW12D
- 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

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GROUNDWATER MONITORING REPORT
HYDRAULIC GRADIENT MAP – DEEP AQUIFER (5/23/05)

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	6/10/05
JOB NO.	4329.02
FIGURE	4

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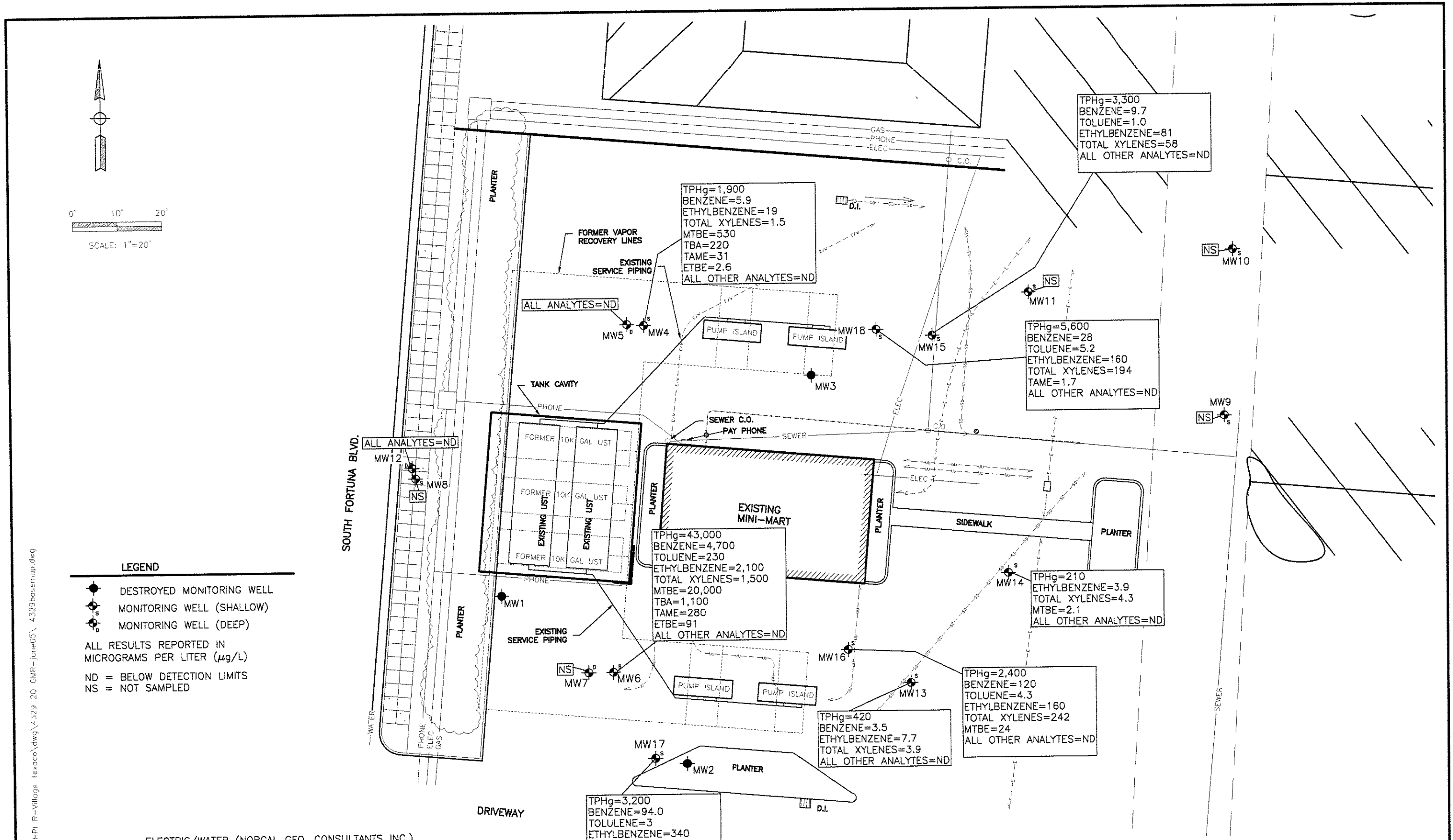

LEGEND

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

ALL RESULTS REPORTED IN MICROGRAMS PER LITER (μg/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.)

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

GROUNDWATER MONITORING REPORT
ANALYTE CONCENTRATIONS IN GROUNDWATER (5/23/05)

HUMBOLDT PETROLEUM, INC
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	6/10/05
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)	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													
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

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)	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													
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	---	
MW-6	72.24													
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)	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	---
MW-7	72.19													
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)	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		---	---	---	---	---	---	---	---	---
MW-8	72.30													
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		---	---	---	---	---	---	---	---	---

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)	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													
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
MW-10	71.35													
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**		---	---	---	---	---	---	---	---	---
MW-11	71.82													
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	**7.10**	ND<20	ND<1.0	---	---	---
MW-12	72.44													
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	**1.10**	**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)	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
MW-13	71.84													
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
MW-14	72.06													
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
MW-15	72.21													
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

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)	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													
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
MW-17	71.50													
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
MW-18	71.83													
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

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	3.70%	NA	NA
2/13/2003	S82°W	0.061	S50°W	0.055
5/21/2003	S43°E	4.60%	S49°W	4.80%
8/6/2003	S43°W	0.044	NA	NA
11/6/2003	S70°E	3.48%	NA	NA
2/11/2004	S42°E	0.046	S49°W	0.066
5/14/2004	S38°E	4.20%	S57°W	8.20%
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	S42°E	4.20%	S45°W	4.30%