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June 29, 2006

4329.04

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 2006
Redwood Village Shell (Former Texaco)
723 South Fortuna Boulevard, Fortuna, California
CRWQCB Case No. 12551, USTCF Claim No. 11811

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the second quarter of 2006 at the Redwood Village Shell (former Texaco) located in Fortuna, California. This report has been prepared for W & S Enviro. The following elements are included within this report:

- Summary of work performed
- Site chronology
- Tabular summary of historical sampling schedule and analytical data
- Tabular summary of historical hydraulic gradients
- Decay rates and monitored natural attenuation
- Response to June 15, 2006, Humboldt County Division of Environmental Health (HCDEH) comments on *Groundwater Monitoring Report, First Quarter 2006*
- Figures representing hydraulic gradients
- Statement of future work

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

Sincerely,
LACO ASSOCIATES

Caroline Levenda
Staff Geologist

Christopher Watt
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PROFESSIONAL GEOLOGIST
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STATE OF CALIFORNIA

CJL:jg

Attachments

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GROUNDWATER MONITORING REPORT, SECOND QUARTER 2006

Redwood Village Shell (Former Texaco), 723 South Fortuna Boulevard, Fortuna, California

CRWQCB Case No. 12551, USTCF Claim No. 11811, LACO Project No. 4329.04

INTRODUCTION:

Field activities were conducted on May 17, 2006, in accordance with generally accepted practices at this or similar locations. Details of the quarterly sampling parameters are presented below in Table A. A location map and site plan are included as Figures 1 and 2, respectively. Field sampling reports are included as Attachment 1.

TABLE A - Field Sampling Details for May 17, 2006

MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	DEPTH TO BOTTOM OF SCREEN (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS	SAMPLING SCHEDULE
						ORGANICS	
MW4	3-10	5.82	9.67	DHP	pH, Temp, Ecw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA, EDB	Quarterly
MW5	15-24.1	21.85	23.93	3/4" B	---		Annually
MW6	3-10	6.73	9.57	DHP	pH, Temp, Ecw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA, EDB, 1,3 Dichlorobenzene, 1,4 Dichlorobenzene, 1,2 Dichlorobenzene, 1,2 Dichloroethane	Quarterly
MW7	15-26.3	24.99	26.13	DTW Only			Annually
MW8	10-15	14.64	13.68				
MW9	5-10	7.22	8.90				
MW10	5-10	9.16	8.94				
MW11	5-10	5.49	8.65				
MW12	28-30.9	25.29	30.73				
MW13	5-10	7.41	8.69	DHP	pH, Temp, Ecw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW14	5-10	7.11	8.73				
MW15	5-10	5.76	8.83				
MW16	4-14	13.72	13.05	Not enough water to sample			
MW17	4-14	13.80	13.03				
MW18	4-14	5.74	13.10	DHP	pH, Temp, Ecw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly

SITE CHRONOLOGY:

- **1984:** The Redwood Village Shell (former Texaco) station was built on raw agriculture property; it is believed this is the time the three underground storage tanks (USTs) were installed.
- **1990:** Humboldt Petroleum, Incorporated 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 (MW 1 through MW3) were installed.
- **1999:** Four borings (B1 through B4) were installed. The field geologist observed two distinct aquifers separated by an aquitard.
- **2000:** Five monitoring wells (MW4 through MW8) were installed and the previously installed monitoring wells (MW1 through MW3) were destroyed.
- **2001:** Nineteen borings (B1-01 through B11-01, B13-01 through B16-01, and B18-01 through B21-01) were installed to further delineate the petroleum hydrocarbon plume.
- **2002:** Seven monitoring wells (MW9 through MW15) were installed. LACO's *Corrective Action Plan* was submitted.
- **2004:** Sixteen borings were installed to delineate and monitor the petroleum hydrocarbon plume stability. LACO's *Remedial Action Plan* was submitted.
- **2005:** Three monitoring wells (MW16, MW17, and MW18) were installed.

HYDRAULIC GRADIENT AND HYDROGEOLOGY

Groundwater in the shallow and deep monitoring wells (with the exception of monitoring well MW8, MW10, MW16, and MW17) was measured at depths within the screen intervals for this monitoring event (Table A, above). Thus, the hydraulic gradients were calculated for both the shallow and deep water bearing units. The hydraulic gradients were calculated using the three-point method and hydraulic head elevations. The hydraulic gradients and trends for the current reporting period follow:

Shallow Water Bearing Unit

- Northeast section of site – S74°E with a 0.02 foot per foot slope using monitoring wells MW4, MW9, and MW14 (Figure 3).
- Central section of site – No gradient was calculated due to water depths not within the screen intervals in the central to southern part of the site.

Deep Water Bearing Unit

- S51°W with a 0.06 foot per foot slope using monitoring wells MW5, MW7, and MW12 (Figure 4).

Historical hydraulic head data are included in Table 1, and historical hydraulic gradients are presented in Table 2. A hydraulic gradient map for shallow and deep monitoring wells is provided as Figures 3 and 4, respectively. Evidence of vertical gradients in this area of the site includes an approximate 4-foot difference in hydraulic head between monitoring wells MW9 (screened from 5 to 10 feet bgs) and MW10 (screened from 5 to 10 feet bgs), which are separated by a horizontal distance of approximately 38 feet; however the vertical gradient between monitoring wells MW9 and MW10 for the current monitoring event is approximately 2 feet. Therefore, the elevation change in hydraulic heads at monitoring wells MW9 and MW10 fluctuates. 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. Particularly, 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. Additionally, the area around the northern pump island (near monitoring well MW4 east to monitoring well MW11) appears to be located in a perched zone. The historical fill at the northern half of the site acts as a recharge zone during the rainy season. The proximity of underground utility corridors creates an increase in hydraulic head elevations and possibly causes vertical gradients.

LABORATORY RESULTS AND DISCUSSION

Analyte concentrations in groundwater for the current sampling event are included below in Table B. Historical groundwater analytical results are summarized in Table 1 and historical intrinsic parameters are included as Table 3. A copy of the laboratory report for the current event is included as Attachment 2. Laboratory notes are included in the case narrative found in Attachment 2.

Table B: Laboratory Analytical Results for May 17, 2006									
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)
MW4	1,700	4.0	ND<0.50	10	1.3	530	250	32	ND<4.0
MW5	ND<50	ND<0.50	0.58	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0
MW6	30,000	2,300	54	1,700	840	18,000	ND<2,500	260	79
MW13	170	2.1	ND<0.50	0.75	0.72	ND<1.0	ND<10	ND<1.0	ND<1.0
MW14	68	3.0	ND<0.50	3.4	3.3	2.7	ND<10	ND<1.0	ND<1.0
MW15	2,300	8.0	ND<0.50	21	14	7.0	ND<20	ND<1.0	ND<1.0
MW18	5,600	39	2.8	140	216	32	ND<30	2.7	ND<1.0

DISCUSSION

Laboratory results for groundwater samples analyzed from the monitoring wells are generally consistent with historical analyte concentrations (Table 1). Monitoring wells MW16 and MW17 were dry, thus a groundwater sample was not collected. Laboratory analytical results are summarized in Table 1 and included as Attachment 2.

DECAY RATES AND MONITORED NATURAL ATTENUATION

Charts depicting analytical data from groundwater monitoring events over time were created using groundwater analytical data reported for samples collected from monitoring wells MW4, MW6, MW15, and MW18 (Charts 1 through 4, respectively). Concentrations in µg/L were plotted on a log scale versus the cumulative number of days since sampling was initiated. Best fit trend lines and trend line equations were generated using Excel software. The slope of the best fit trend line represents the first-order decay rate constant for the particular constituent. The first-order decay rate constants resulting from the regression analysis are presented below in Table C. Decay rates were calculated using the first order decay rate equation:

Time = -LN (Final concentration / Initial concentration) / decay rate constant

The water quality objective of each constituent of concern is used in the decay rate equation in place of the final concentration. The initial concentration is the y-intercept of the trend line displayed on Charts 1 through 4. The decay rate constant is the exponential value of the equation of the trend line. The times to reach the water quality objective through monitoring and natural attenuation for total petroleum hydrocarbons as gasoline, benzene, and methyl tertiary butyl ether are reported in years and days and included below in Table C.

Table C: Decay Rates and Time to Reach Water Quality Objectives							
Monitoring Well ID / Constituent of Concern	Initial Concentration (y-intercept value) (ug/L)	Final Concentration (WQO) (ug/L)	Decay Rate Constant	Time to Reach Water Quality Objective since sampling initiated (years)	Time to Reach Water Quality Objective since sampling initiated (days)	Time to Reach Water Quality Objective since current sampling event (years)	Time to Reach Water Quality Objective since current sampling event (days)
MW4							
TPHg	N/A - Increasing Trendline						
Benzene	58	1	-0.0014	8	2,902	2	887
MTBE	N/A - Increasing Trendline						
TAME	N/A - Increasing Trendline						
TBA	N/A - Increasing Trendline						
ETBE	N/A - Increasing Trendline						
MW6							
TPHg	54,378	50	-0.0003	64	23,306	58	21,291
Benzene	11,111	1	-0.0008	32	11,645	26	9,630
MTBE	37,598	13	-0.0005	44	15,940	38	13,925
TAME	460	12	-0.0003	33	12,155	28	10,140
TBA	2,576	3	-0.0004	46	16,888	41	14,873
ETBE	136	3	-0.0003	35	12,721	29	10,706
MW15							
TPHg	8,996	50	-0.001	14	5,192	9	3,177
Benzene	596	1	-0.0034	5	1,879	WQO Already Reached	
MTBE	32	13	-0.001	2	887	WQO Already Reached	
MW18							
TPHg	N/A - Increasing Trendline						
Benzene	114	1	-0.0016	8	2,961	3	946
MTBE	46	13	-0.0002	17	6,353	12	4,338

Decay rates determined from the trendline analyses (Charts 1 through 4) and time to reach water quality objectives (Table C) continue to support the need for active remediation at this site.

RESPONSE TO HCDEH COMMENTS FROM LETTER CORRESPONDENCE DATED JUNE 15, 2006

HCDEH Comment: *We do not concur with the recommendation to sample monitoring wells MW4 through MW18 biannually. Some of these wells record high levels of contamination (up to tens of thousands). Specifically, MW-6, -15, -16, -17, and -18 are key wells in monitoring contaminants. Previously we concurred with sampling monitoring well numbers -5,-7,-8,-9,-10,-11, and -12 annually (wet season). We still concur with this recommendation.*

LACO Response: LACO will continue with the current monitoring protocol. Monitoring wells MW4, MW6, and MW13 through MW18 will continue to be sampled quarterly. Monitoring wells MW5 and MW7 through MW10 will continue to be sampled annually.

HCDEH Comment: *We observed an error on the interpretation of groundwater gradients in the shallow zone (Figure 3). MW-15 records relative groundwater elevation at 67.24 feet.*

Groundwater contours surround MW-15 in concentric circles declining toward 64.6 feet. Please correct this figure. The groundwater gradients on Figure 3 are contoured in 0.2 foot intervals. Throughout the site, the groundwater elevations are in the vicinity of 66 and 67 feet, with exception MW-10 records 63.5 feet. The resolution of this figure distracts from the fact the gradient is relatively flat. Please use larger contour intervals to simplify this figure.
LACO Response: A revised Figure 3 is included in Attachment 3.

HCDEH Comment: *In our correspondence dated February 1, 2005, we recommended a Workplan to delineate the soil contamination westerly and southerly of B-44. What is the status of the Workplan?*
LACO Response: A workplan is pending.

HCDEH Comment: *We understand the remediation implementation is pending approval by the Underground Storage Tank Cleanup Fund. Please update us on the date of proposed installation.*
LACO Response: Remediation implementation of LACO's Pay for Performance proposal is pending approval by the Underground Storage Tank Cleanup Fund (USTCF). A cost proposal was submitted to the USTCF on June 14, 2006.

RECOMMENDATIONS

- The next sampling event is scheduled for August 2006. Monitoring wells MW5 and MW7 through MW12 will be sampled annually during the wet season.
- Hydraulic gradients will be calculated when groundwater elevations have reached the screen intervals of the monitoring wells.

LIMITATIONS

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

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LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS

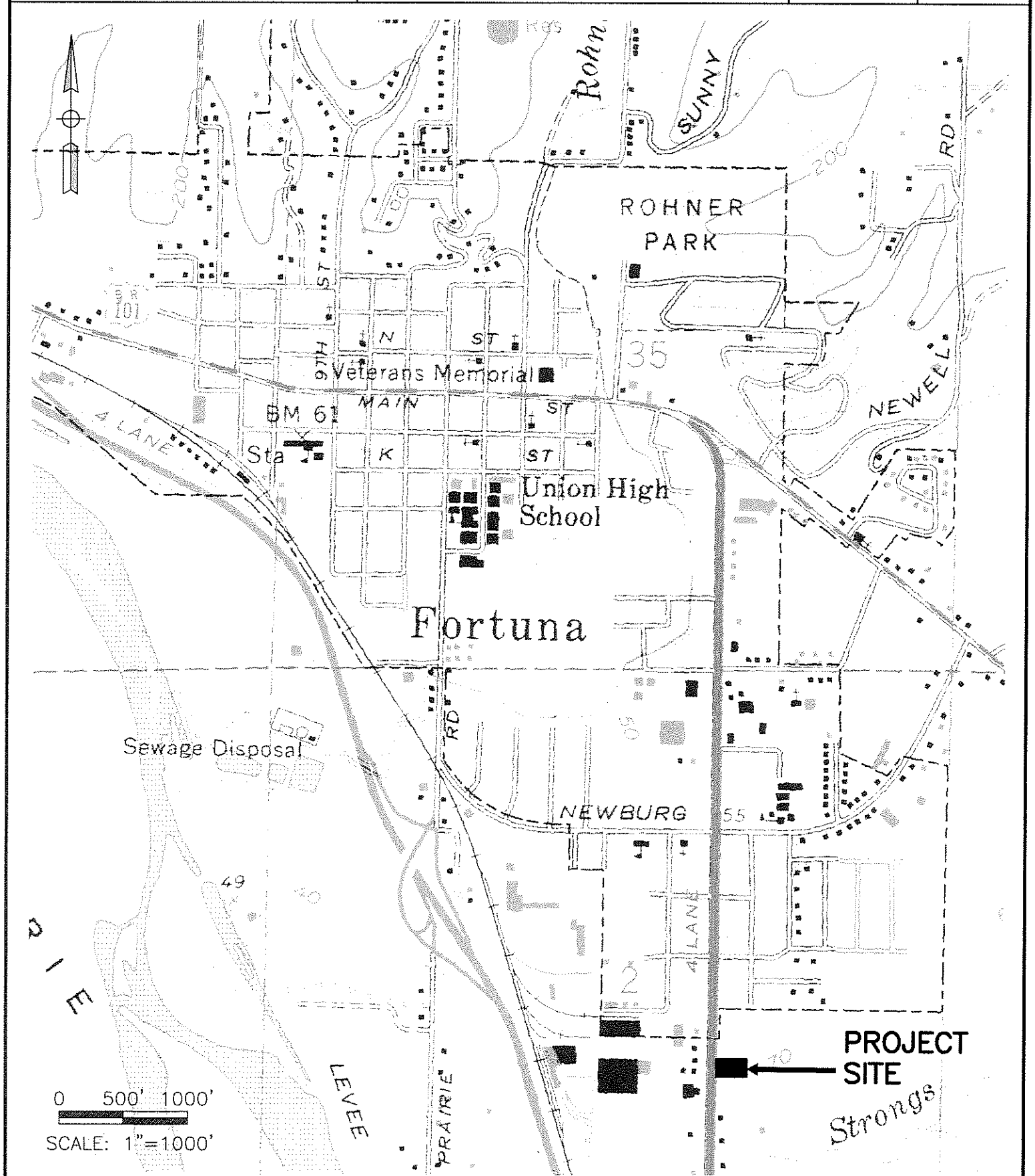
Figure 1: Location Map
Figure 2: Site Map
Figure 3: Hydraulic Gradient Shallow Wells (5/17/06)
Figure 4: Hydraulic Gradient Map Deep Wells (5/17/06)

Table 1: Historical Monitoring Well Data and Groundwater Analytical Results
Table 2: Historical Hydraulic Gradient Data
Table 3: Historical Intrinsic Parameters

Chart 1: Groundwater Concentrations in Monitoring Well MW4
Chart 2: Groundwater Concentrations in Monitoring Well MW6
Chart 3: Groundwater Concentrations in Monitoring Well MW15
Chart 4: Groundwater Concentrations in Monitoring Well MW18

Attachment 1: Field Sampling Forms
Attachment 2: Copy of Current Laboratory Analytical Report
Attachment 3: Revised Figure 3.

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 1
	CLIENT W & S ENVIRO	DATE 6/19/06	
	LOCATION R. VILLAGE SHELL, (FORMER TEXACO) FORTUNA	CHECK	JOB NO. 4329.04
	LOCATION MAP	SCALE 1"=1000'	



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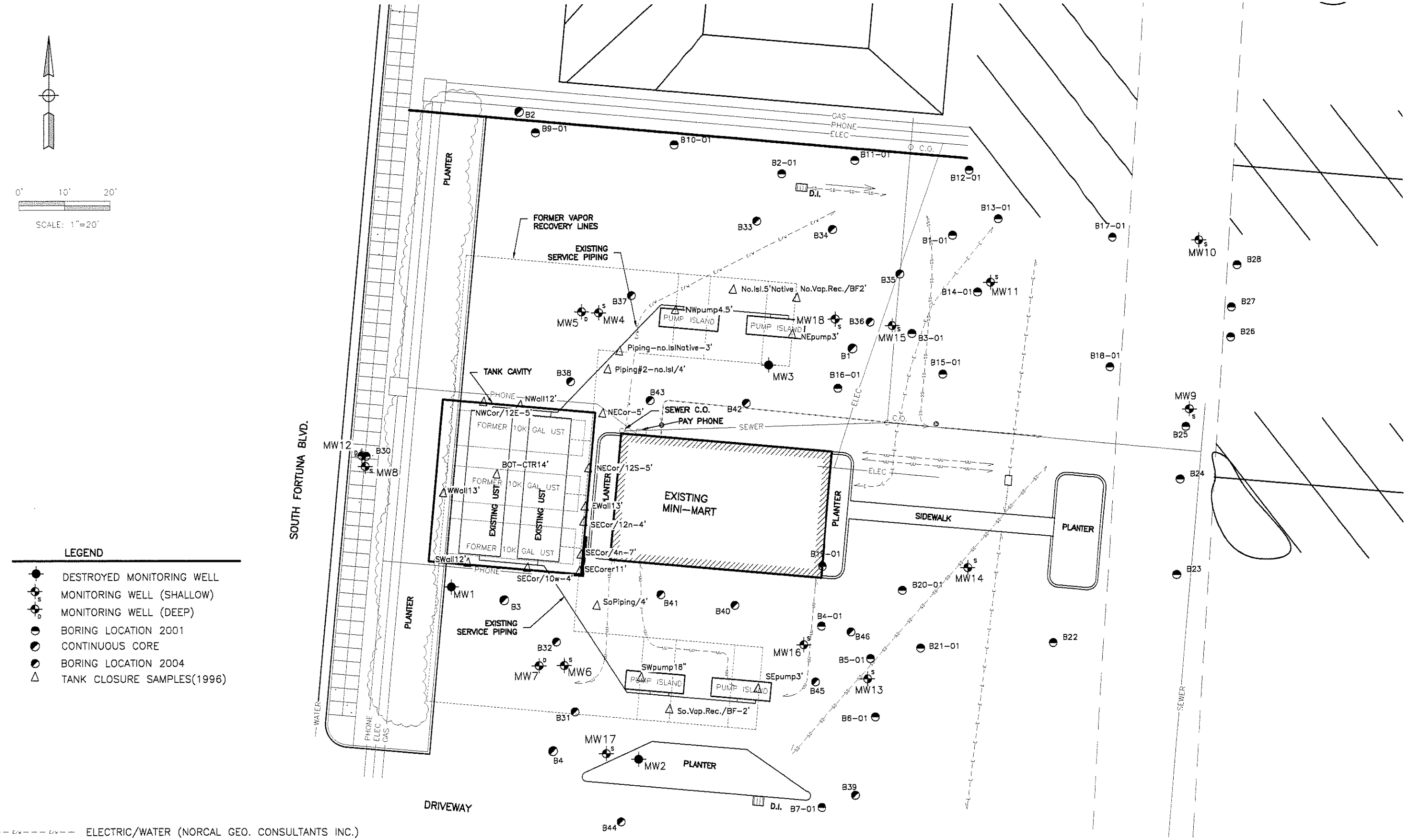

LEGEND

- 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.)

NO.	REVISION	BY	CHK	DATE

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

GROUNDWATER MONITORING REPORT
SITE MAP

W & S ENVIRO
R.VILLAGE SHELL, (FORMER TEXACO) FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	6/19/06
JOB NO.	4329.04
FIGURE	2

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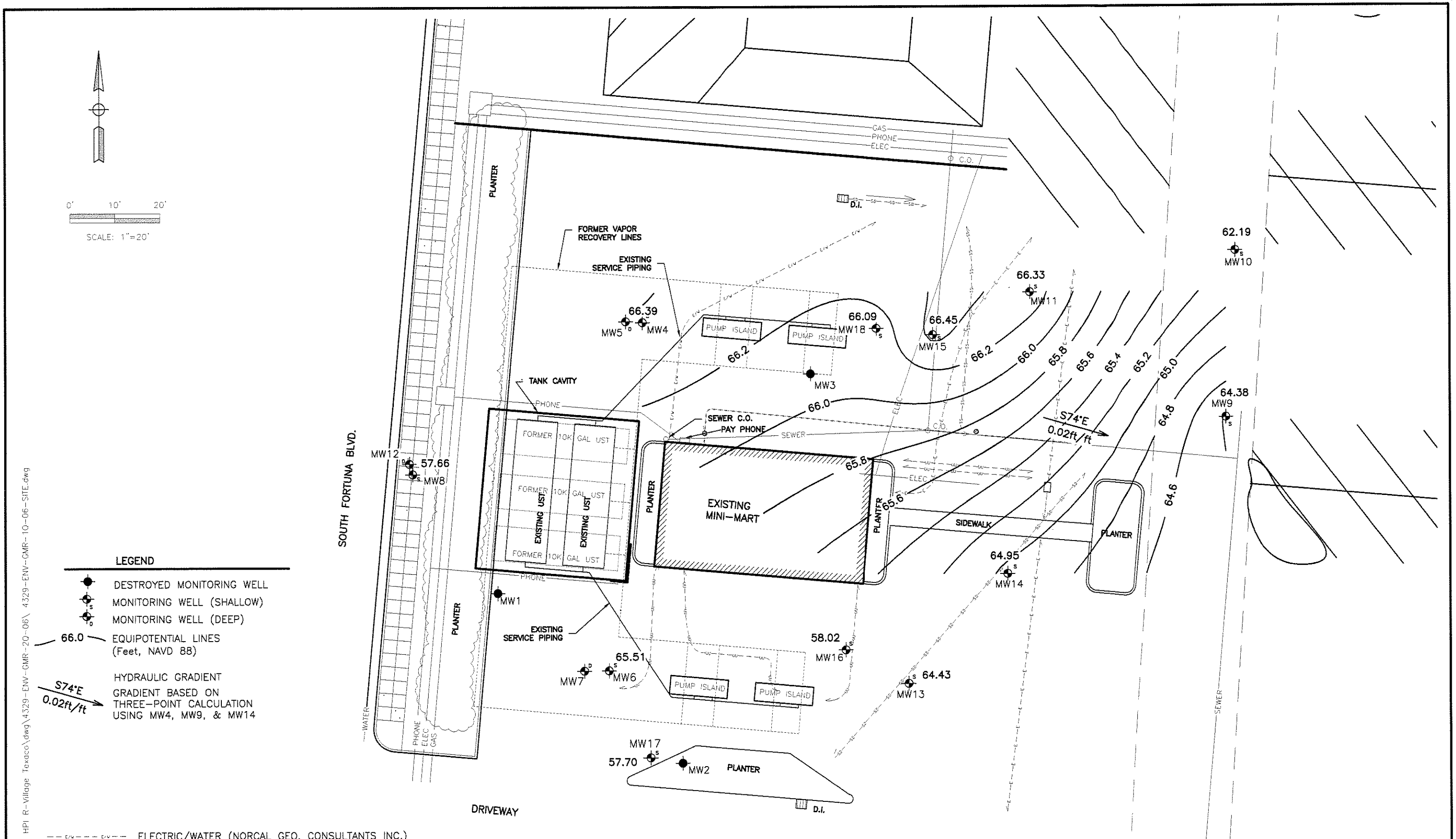

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LACO ASSOCIATES
CONSULTING ENGINEERS
21 W. 4TH ST. EUREKA, CA 95501 (707)443-5054

GROUNDWATER MONITORING REPORT
HYDRAULIC GRADIENT MAP SHALLOW WELLS (5/17/06)

W & S ENVIRO
R.VILLAGE SHELL, (FORMER TEXACO) FORTUNA

SCALE	1"=20'
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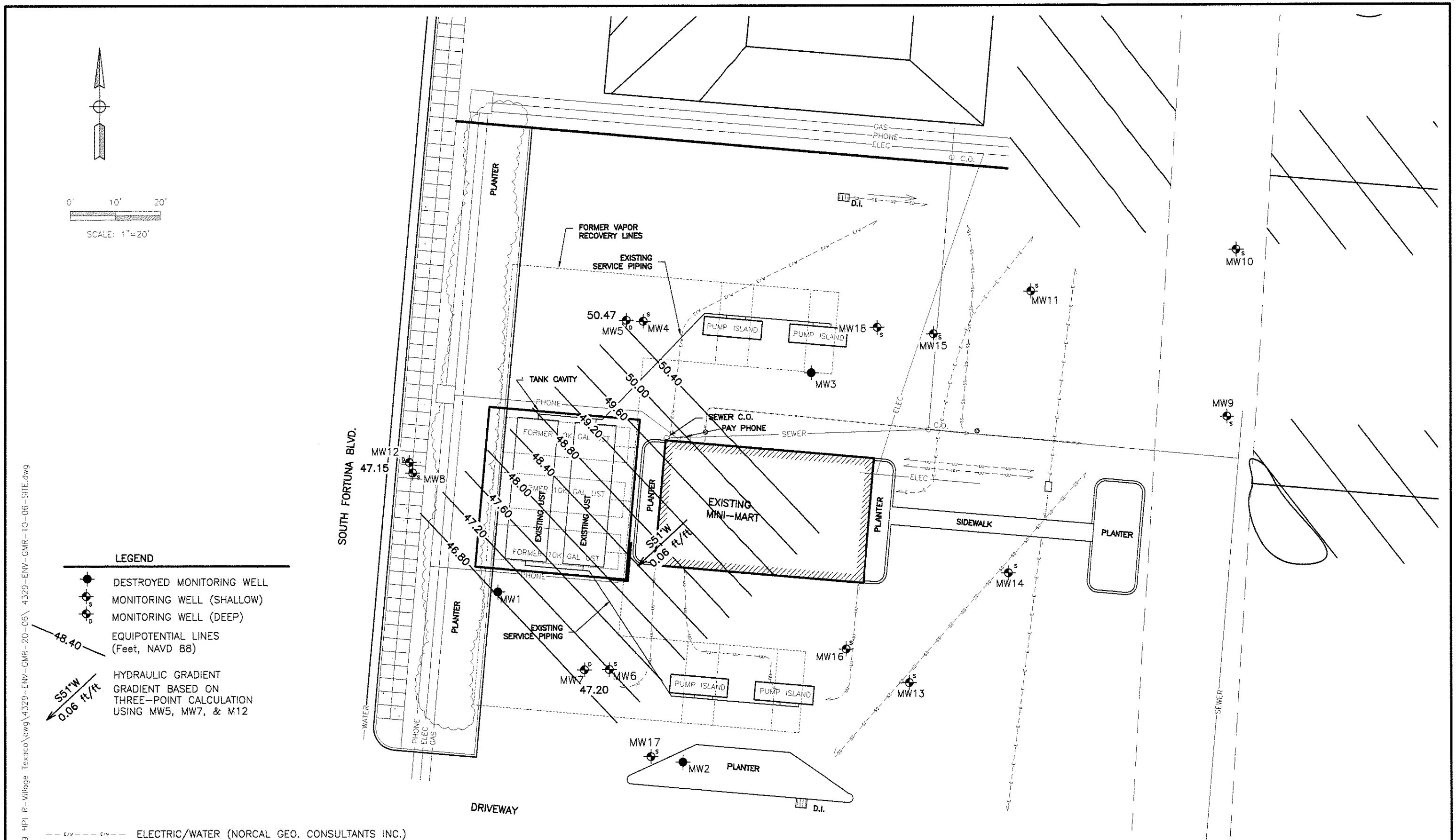
APPVD	
DATE	6/19/06
JOB NO.	4329.04
FIGURE	3



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

GROUNDWATER MONITORING REPORT
HYDRAULIC GRADIENT MAP DEEP WELLS (5/17/06)

W & S ENVIRO
R.VILLAGE SHELL, (FORMER TEXACO) FORTUNA

SCALE	1"=20'
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CHECK	
APPVD	
DATE	6/19/06
JOB NO.	4329.04
FIGURE	4

TABLE 1: HISTORICAL MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
W & S Enviro- R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

	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)	Depth to Bottom of Screen (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-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		9.67											
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
11/2/2005		65.90		6.31		2,200	4.5	ND<0.50	23	1.5	500	270	30	2.5	---	ND<1.0
2/9/2006		67.33		4.88		1,600	4.7	ND<0.50	9.5	1.2	490	250	32	2.5	---	ND<1.0
5/17/2006		66.39		5.82		1,700	4.0	ND<0.50	10	1.3	530	250	32	ND<4.0	---	ND<1.0

TABLE 1: HISTORICAL MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
W & S Enviro- R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

	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)	Depth to Bottom of Screen (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-5	72.32		15-24.1		23.93											
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		---	---	---	---	---	---	---	---	---
11/2/2005		48.79		23.53		ND<50	ND<0.50	0.94	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	---
2/9/2006		50.47		21.85		ND<50	ND<0.50	1.4	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		50.47		21.85		ND<50	ND<0.50	0.58	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
MW-6	72.24		3-10		9.57											
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: HISTORICAL MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
W & S Enviro- R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

	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)	Depth to Bottom of Screen (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-6 Continued					9.57											
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	---
11/2/2005		NA		DRY		no sample collected										
2/9/2006		65.88		6.36		32,000	2,800	63	1,800	890	19,000	ND<2000	290	83	---	ND<1.0-5.0
5/17/2006		65.51		6.73		30,000	2,300	54	1,700	840	18,000	ND<2500	260	79	ND<1.0	ND<1.0-5.0
MW-7	72.19		15-26.3		26.13											
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: HISTORICAL MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
W & S Enviro- R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

	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)	Depth to Bottom of Screen (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-7 Continued					26.13											
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		---	---	---	---	---	---	---	---	---
11/2/2005		45.89		26.30		no sample collected		---	---	---	---	---	---	---	---	---
2/9/2006		47.53		24.66		ND<50	0.71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		47.20		24.99		no sample collected		---	---	---	---	---	---	---	---	---
MW-8	72.30		10-15		13.68											
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		---	---	---	---	---	---	---	---	---
11/2/2005		57.59		14.71		no sample collected		---	---	---	---	---	---	---	---	---
2/9/2006		57.63		14.67		no sample collected		---	---	---	---	---	---	---	---	---
5/17/2006		57.66		14.64		no sample collected		---	---	---	---	---	---	---	---	---

TABLE 1: HISTORICAL MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
W & S Enviro- R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

	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)	Depth to Bottom of Screen (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-9	71.60		5-10		8.90											
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
11/2/2005		62.11		9.49		no sample collected		---	---	---	---	---	---	---	---	---
2/9/2006		67.06		4.54		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
5/17/2006		64.38		7.22		no sample collected		---	---	---	---	---	---	---	---	---
MW-10	71.35		5-10		8.94											
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
11/2/2005		61.84		9.51		no sample collected		---	---	---	---	---	---	---	---	---
2/9/2006		63.50		7.85		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
5/17/2006		62.19		9.16		no sample collected		---	---	---	---	---	---	---	---	---
MW-11	71.82		5-10		8.65											
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	---	---
11/2/2005		62.65		9.17		no sample collected		---	---	---	---	---	---	---	---	---
2/9/2006		67.42		4.40		**69**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**6.2**	ND<20	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		66.33		5.49		no sample collected		---	---	---	---	---	---	---	---	---
MW-12	72.44		28-30.9		30.73											
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: HISTORICAL MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
W & S Enviro- R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

	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)	Depth to Bottom of Screen (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-12 Continued					30.73											
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
11/2/2005		43.86		28.58		---	---	---	---	---	---	---	---	---	---	---
2/9/2006		48.53		23.91		**60**	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
5/17/2006		47.15		25.29		no sample collected		---	---	---	---	---	---	---	---	---
MW-13	71.84		5-10		8.69											
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		---	---	---	---	---	---	---	---	---
11/2/2005		63.08		8.76		**390**	**0.98**	**0.8**	**3.3**	**4.7**	ND<1.0	ND<10	ND<1.0	ND<1.0	All ND<1.0	ND<1.0
2/9/2006		67.58		4.26		**52**	**0.63**	ND<0.50	**0.84**	**0.58**	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		64.43		7.41		**170**	**2.1**	ND<0.50	**0.75**	**0.72**	ND<1.0	ND<10	ND<1.0	ND<1.0	---	ND<1.0
MW-14	72.06		5-10		8.73											
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		---	---	---	---	---	---	---	---	---
11/2/2005		62.68		9.38		no sample collected		---	---	---	---	---	---	---	---	---
2/9/2006		67.58		4.48		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.7**	ND<10	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		64.95		7.11		**68**	**3.0**	ND<0.50	**3.4**	**3.3**	**4.7**	ND<10	ND<1.0	ND<1.0	---	ND<1.0

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	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)	Depth to Bottom of Screen (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-15	72.21		5-10		8.83											
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
11/2/2005		63.09		9.12		2,300	9.2	0.89	69	46	14	ND<45	ND<1.0	ND<1.0	---	ND<1.0
2/9/2006		67.24		4.97		1,900	6.1	ND<0.50	29	20.1	5.4	ND<20	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		66.45		5.76		2,300	8.0	ND<0.50	21	14	7.0	ND<20	ND<1.0	ND<1.0	---	ND<1.0
MW-16	71.74		4-14		13.05											
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
11/2/2005		57.89		13.85		---	---	---	---	---	---	---	---	---	---	---
2/9/2006		65.69		6.05		2,900	40	3.9	120	133	11	ND<20	ND<1.0	ND<1.0	---	ND<1.0
5/17/2006		58.02		13.72		Not enough water to sample										
MW-17	71.50		4-14		13.03											
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		---	---	---	---	---	---	---	---	---
11/2/2005		57.42		14.08		---	---	---	---	---	---	---	---	---	---	---
2/9/2006		67.08		4.42		4,500	32	1.4	110	93	69	56	3.4	ND<1.0	---	ND<1.0
5/17/2006		57.70		13.80		Not enough water to sample										
MW-18	71.83		4-14		13.10											
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
11/2/2005		58.84		12.99		3,500	190	5.5	80	177	55	19	4.7	ND<1.0	---	ND<1.0
2/9/2006		67.06		4.77		3,900	17	1.6	78	124	31	ND<30	2.5	ND<1.0	---	ND<1.0
5/17/2006		66.09		5.74		5,600	39	2.8	140	216	32	ND<30	2.7	ND<1.0	---	ND<1.0

Notes:

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: HISTORICAL HYDRAULIC GRADIENT DATA
W & S Enviro - R Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

Date	Shallow Aquifer (Central Area)		Shallow Aquifer (Northeast Area)		Deep Aquifer	
	Direction	Slope	Direction	Slope	Direction	Slope
11/9/2000	NA	NA	---	---	NA	NA
12/12/2000	NA	NA	---	---	NA	NA
12/5/2002	S72°E	0.04	---	---	NA	NA
2/13/2003	S82°W	0.06	---	---	S50°W	0.06
5/21/2003	S43°E	0.05	---	---	S49°W	0.05
8/6/2003	S43°W	0.04	---	---	NA	NA
11/6/2003	S70°E	0.04	---	---	NA	NA
2/11/2004	S42°E	0.05	---	---	S49°W	0.07
5/14/2004	S38°E	0.04	---	---	S57°W	0.08
8/30/2004	NA	NA	---	---	NA	NA
11/22/2004	S61°E	NA	---	---	NA	NA
2/3/2005	NA	NA	---	---	S50°W	0.08
5/23/2005	N42°E	0.04	---	---	S45°W	0.04
8/1/2005	S20°E	0.03	---	---	NA	NA
11/12/2005	NA	NA	---	---	NA	NA
2/9/2006	N84°W	0.03	N31°E	0.04	S26°W	0.03
5/17/2006	---	---	S74°E	0.02	S51°W	0.06

TABLE 3: HISTORICAL INTRINSIC PARAMETERS
W&S Enviro - R.Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

Monitoring Well ID / Date	pH	Temp (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)
MW4					
5/3/2002	---	---	---	---	0.55
7/31/2002	---	---	---	86	1.74
12/5/2002	---	---	---	140	1.5
5/21/2003	---	---	---	48	1.52
8/6/2003	---	---	---	67	1.51
11/6/2003	---	---	---	107	0.59
2/11/2004	6.6	15.5	347	88	0.63
5/14/2004	5.1	18.2	282	52	0.58
8/30/2004	5.7	20.5	218	-23	1.27
11/22/2004	5.79	17.5	254	-4	0.85
2/3/2005	5.6	14.5	211	37	0.52
5/23/2005	5.58	17.8	318	14	0.68
8/1/2005	5.5	20	252	46	0.56
11/2/2005	5.4	16.5	231	60	0.78
2/9/2006	6.5	14.2	258	113	0.85
5/17/2006	5.7	19.3	290	-37	0.52
MW5					
5/3/2002	---	---	---	---	6.97
5/21/2003	---	---	---	89	2.94
8/6/2003	---	---	---	18	2.39
2/11/2004	6.6	18.5	261	30	2.91
5/14/2004	6	19.7	228	94	2.43
2/9/2006	6.9	16.1	207	59	4.04
MW6					
5/3/2002	---	---	---	---	0.99
5/21/2003	---	---	---	11	0.95
2/11/2004	6.6	17.1	375	40	0.85
5/14/2004	5.6	19.3	307	1	0.85
2/3/2005	5.9	17.5	196	12	0.36
5/23/2005	5.87	17.6	288	19	0.54
8/1/2005	6.03	17.6	224	-3	0.47
5/17/2006	5.9	17.3	270	-71	1.23
MW7					
5/3/2002	---	---	---	---	6.97
5/21/2003	---	---	---	108	1.72
MW9					
5/23/2005	5.95	16.9	160	68	1.31
2/9/2006	6.2	17.9	151	154	0.95
MW10					
5/21/2003				117	2.36
2/11/2004	6.5	16.4	220	108	2.31
2/3/2005	5.7	16.4	143	74	1.56
2/9/2006	6.2	18.6	175	136	1.58

TABLE 3: HISTORICAL INTRINSIC PARAMETERS
W&S Enviro - R.Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna
CRWQCB Case No. 12551; LACO No. 4329.04

Monitoring Well ID / Date	pH	Temp (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)
MW11					
5/21/2003	---	---	---	Ur	1.05
5/23/2005	5.94	17.1	294	-31	0.44
8/1/2005	6	22.3	262	-35	0.46
2/9/2006	6.6	16.3	275	76	0.44
MW12					
2/13/2003	---	---	---	-25	9.4
5/21/2003	---	---	---	102	3.64
MW13					
5/23/2005	5.88	17.7	196	-35	0.41
5/17/2006	5.7	17.7	130	Ur	1.18
MW14					
5/23/2005	6.5	17.4	278	6	0.53
2/9/2006	6.2	15.8	187	124	0.63
5/17/2006	5.7	20.7	170	Ur	0.68
MW15					
5/21/2003	---	---	---	-69	1.18
8/6/2003	---	---	---	-10	0.57
2/11/2004	6.6	15.5	493	-28	0.62
5/14/2004	5.9	18.5	385	-47	0.54
11/22/2004	6.22	18.7	301	-55	0.66
2/3/2005	6	16.4	220	-47	0.34
5/23/2005	6.08	18.3	320	-48	0.39
8/1/2005	6	20.7	284	-36	0.26
2/9/2006	6.5	16.3	260	57	0.65
5/17/2006	6.2	20	430	Ur	0.51
MW16					
2/3/2005	5.9	17.5	180	-17	0.39
3/22/2005	5.6	16.7	272	-37	1.03
5/23/2005	5.87	17.4	289	-44	0.92
MW17					
2/3/2005	6.4	18	209	10	4.54
3/22/2005	5.8	16.4	278	27	0.67
5/23/2005	6.26	17.7	304	-19	0.57
MW18					
2/3/2005	6.5	16.9	191	-12	1.04
3/22/2005	5.7	14.9	277	-61	0.57
5/23/2005	5.97	17.3	292	-69	0.51
8/1/2005	6.0	20.3	304	-33	0.51
2/9/2006	6.4	16	237	61	0.60
5/17/2006	6.2	21.4	400	Ur	0.52

Notes:
Ur = Unreadable
mg/L = milligrams per liter
µmhos = micromohs
°C = degrees Celsius
mV = millivolts

CHART 1: GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW4

W&S Enviro - R. Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna

CRWQCB Case No. 12551; LACO No. 4329.04

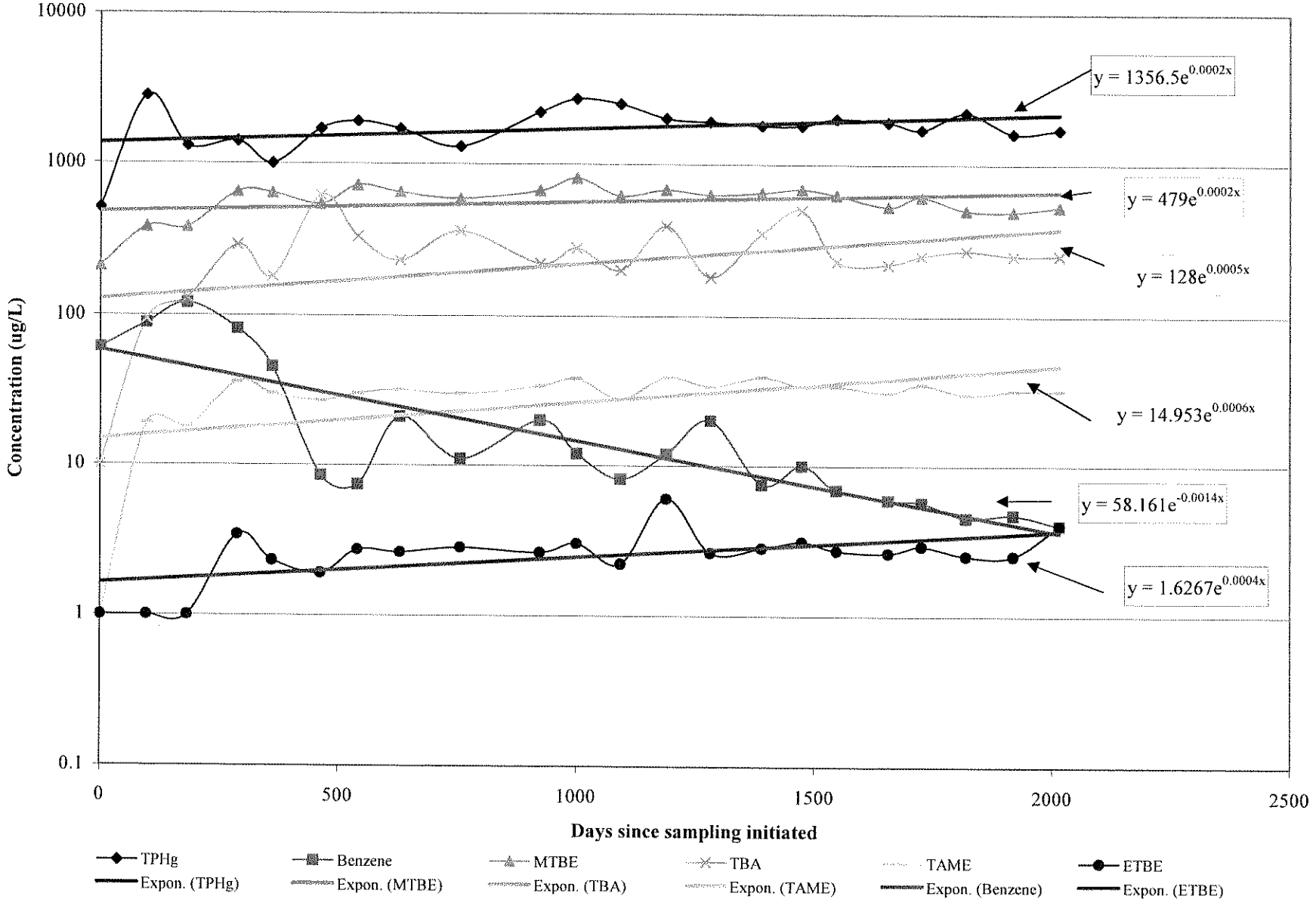


CHART 2: GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW6

W&S Enviro - R.Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna

CRWQCB Case No. 12551; LACO No. 4329.04

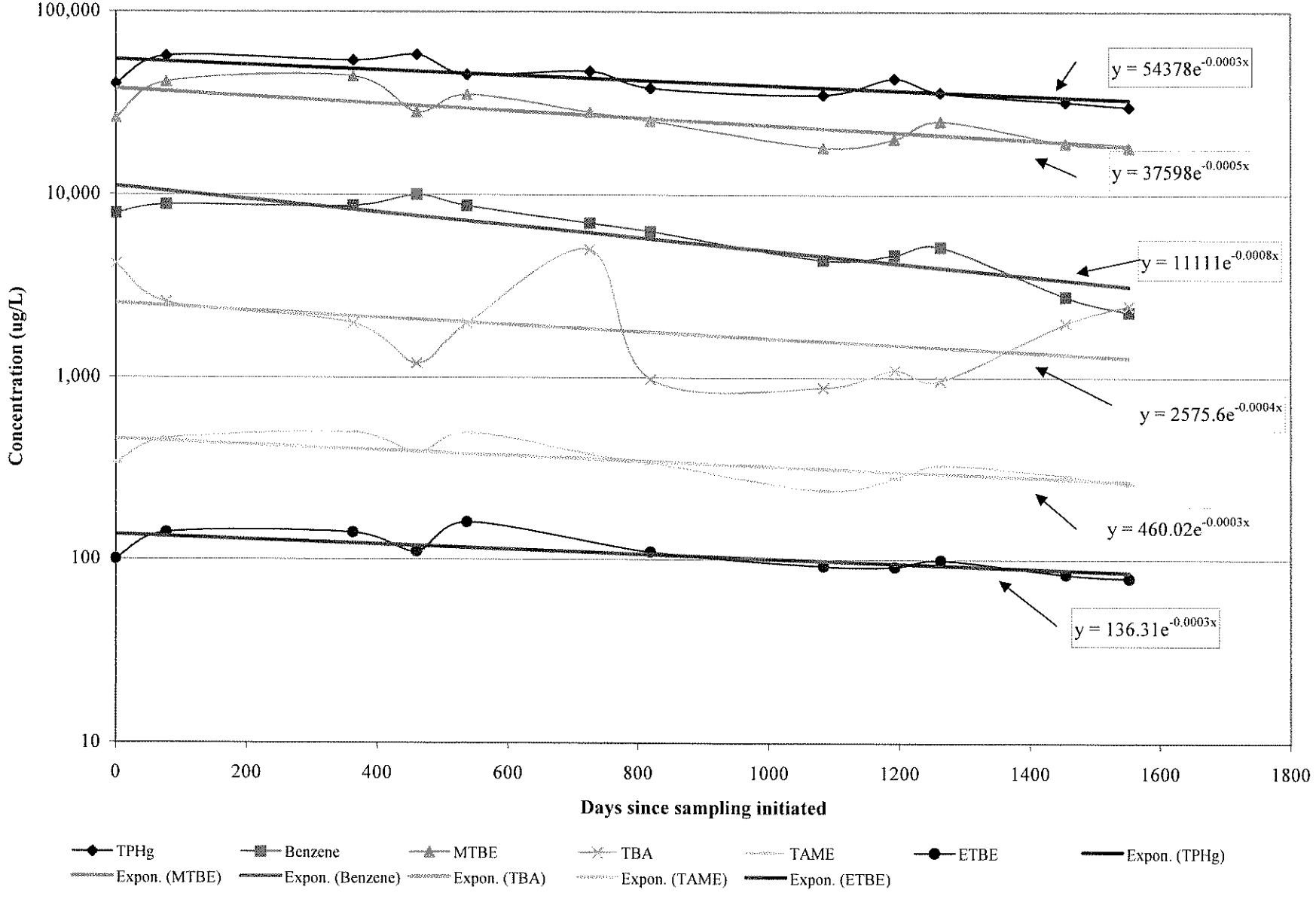


CHART 3: GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW15

W&S Enviro - R.Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna

CRWQCB Case No. 12551; LACO No. 4329.04

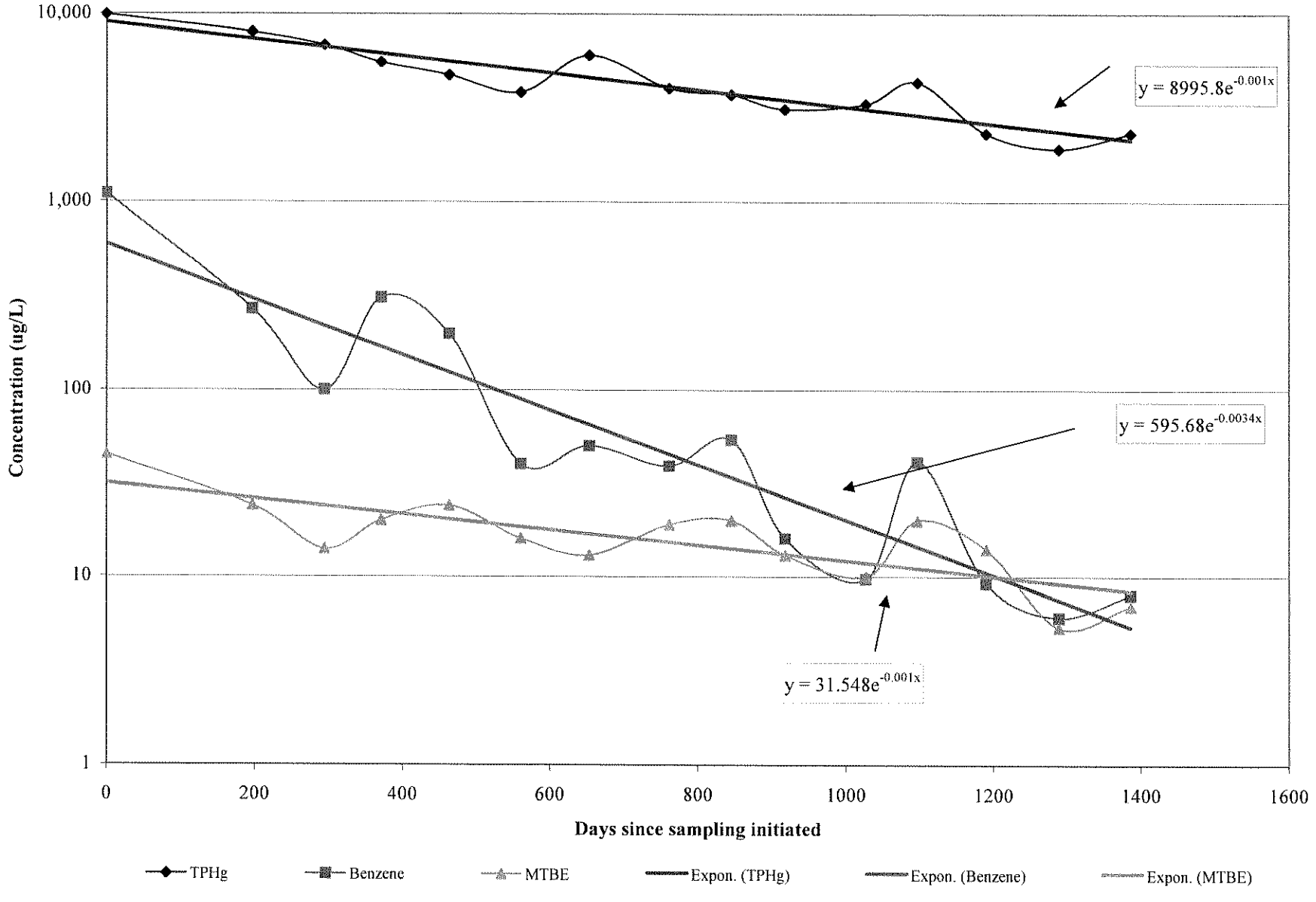
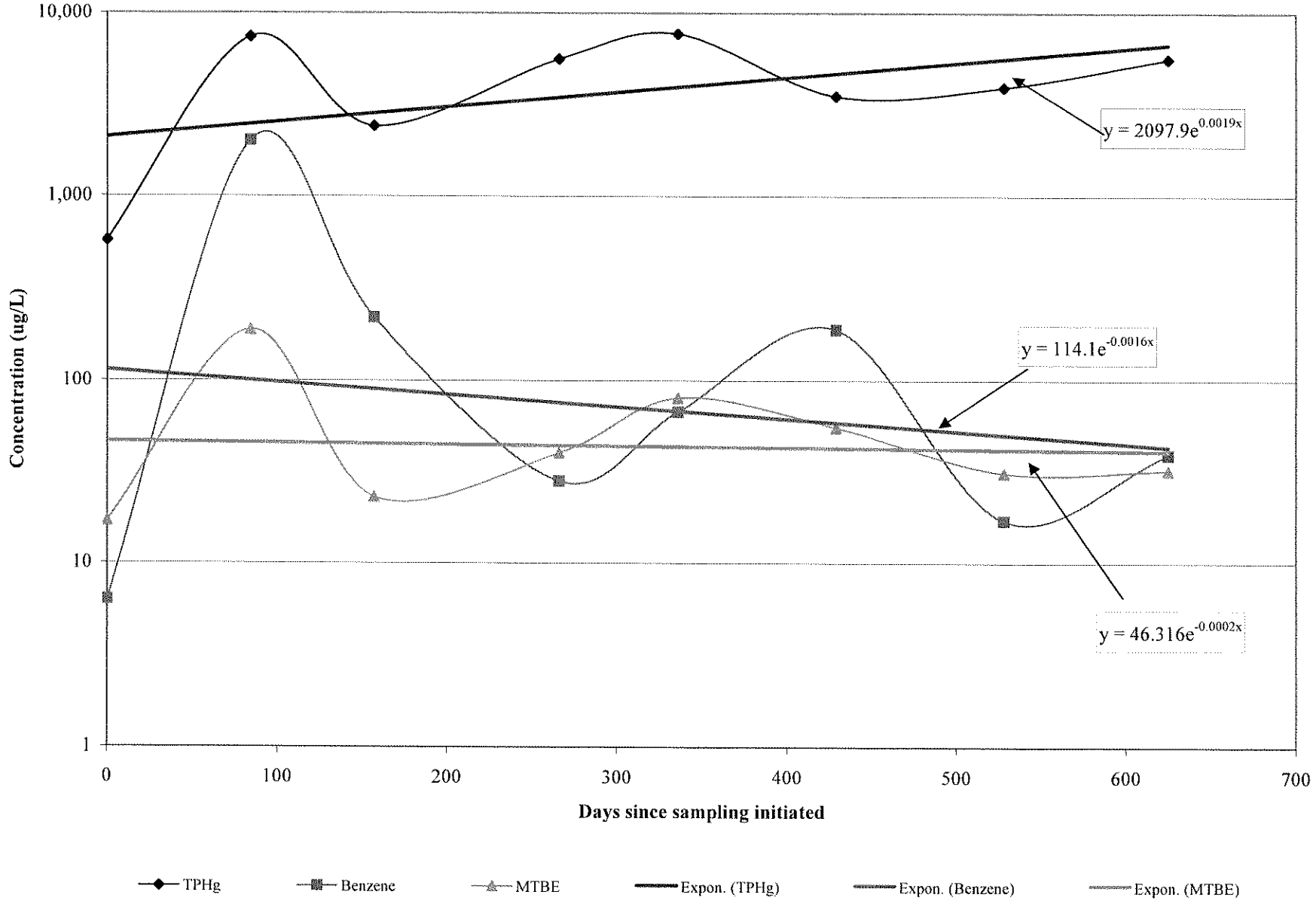


CHART 4: GROUNDWATER CONCENTRATIONS IN MONITORING WELL MW18

W&S Enviro - R.Village Shell (Former Texaco), 723 South Fortuna Blvd, Fortuna

CRWQCB Case No. 12551; LACO No. 4329.04



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 - W&S
Project No.: 4329.04
Date: 5-17-06
Golbal ID No.: T0602300415
PM: CJW

Tech: ~~SJD~~ RLD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site: 2:30
Mileage: 36

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)	5.82		21.85		6.73		24.99		14.64	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	5.8	5.7			6.0	5.9				
TEMP (°C)	20.5	19.3			17.4	17.3				
Ecw (µmohs)	300	290			270	270				
ORP (mV)	-13	-37			-56	-71				
DO (mg/L)	0.88	0.52			0.81	1.23				
OTHER (units)	—		—		—					
PURGE: TIME	1:07	1:15	1:25	1:30	10:49	10:55				
METHOD (DHP/CB/B)	DHP		3/4" B		DHP					
RATE (Lpm)	0.25		—		0.25					
VOLUME (L)	2.0		0.5		1.5					
COLOR	CLEAR	CLEAR	CLEAR W/CHUNKS	CLEAR W/CHUNKS	CLEAR	CLEAR				
ODOR	MED - STRONG SHOE STORE		NONE		MED RUBBER					
INTAKE DEPTH (FEET)	8.0		—		8.5					
SAMPLE: TIME	1:17		1:35		10:57					
METHOD (DHP/CB/B)	DHP		3/4" B		DHP					
ANALYTES	8260 List 1		8260 List 1		8260 List 5		MEASURE ONLY		MEASURE ONLY	
TOTAL DRAWDOWN (FEET)	0.70		—		2.04					
REMARKS	FD + MB		—		—		—		—	
WELL CONDITION	GOOD		GOOD		GOOD		NEEDS NEW 6" LID		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 - WSE
Project No.: 4329.04
Date: 5-17-06
Golbal ID No.: T0602300415
PM: CJW

Tech: SJD - RLD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site: 2:30
Mileage: 36

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)	7.22		9.16		5.49		25.29		7.41	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH									5.7	5.7
TEMP (°C)									15.8	17.7
Ecw (µmohs)									130	130
ORP (mV)									-82	45
DO (mg/L)									1.23	1.18
OTHER (units)										
PURGE: TIME									10:11	10:17
METHOD (DHP/CB/B)									DHP	
RATE (Lpm)										
VOLUME (L)									1.0	
COLOR									CLOUDY CLEAR	CLOUDY CLEAR
ODOR									MED - STRONG SULFUR	
INTAKE DEPTH (FEET)									9.0	
SAMPLE: TIME									10:19	
METHOD (DHP/CB/B)									DHP	
ANALYTES	MEASURE ONLY		MEASURE ONLY		MEASURE ONLY		MEASURE ONLY		8260 List 1	
TOTAL DRAWDOWN (FEET)									0.69	
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 - W&S
Project No.: 4329.04
Date: 5-17-06
Golbal ID No.: T0602300415
PM: CJW

Tech: ~~SJD~~ RLD
Mobe/Demobe time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site: 2:30
Mileage: 36

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)	7.11		5.76		13.72		13.80		5.74	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	5.8	5.7	6.2	6.2					6.2	6.2
TEMP (°C)	19.1	20.7	19.5	20.0					19.6	21.4
Ecw (µmohs)	180	170	430	430					400	400
ORP (mV)	-72	ur	ur	ur					ur	ur
DO (mg/L)	0.92	0.68	0.87	0.51					0.82	0.52
OTHER (units)	—		—		—		—		—	
PURGE: TIME	11:25	11:31	11:47	11:55					12:13	12:19
METHOD (DHP/CB/B)	DHP		DHP						DHP	
RATE (Lpm)	0.25		0.19						0.25	
VOLUME (L)	1.5		1.5						1.5	
COLOR	CLOUDY CLEAR	CLOUDY GREY	CLEAR	CLEAR					CLOUDY CLEAR	CLOUDY CLEAR
ODOR	MED - STRONG SULFUR		STRONG SHOE - STORE						MED FUEL	
INTAKE DEPTH (FEET)	8.5		8.0						10.0	
SAMPLE: TIME	11:33		11:57		—		—		12:21	
METHOD (DHP/CB/B)	DHP		DHP		—		—		DHP	
ANALYTES	8260 List 1		8260 List 1		8260 List 1		8260 List 1		8260 List 1	
TOTAL DRAWDOWN (FEET)	0.82		0.73		—		—		3.34	
REMARKS	—		—		DRY		DRY		—	
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 - WRS

Project No.: 9329.04

Tech: RLD

Date: 5-17-06

METER ACCURACY RANGE

WELL ID: MW13	+/- 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	5.7	16.5	130	-94	1.45
10:15	5.6	17.5	130	ur	1.25
10:17	5.7	17.7	130	ur	1.18

WELL ID: MW16

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:51	6.0	17.6	270	-68	0.96
10:53	5.9	17.5	270	-71	1.25
10:55	5.9	17.3	270	-71	1.23

WELL ID: MW14

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:27	5.7	20.5	180	ur	0.94
11:29	5.7	20.6	170	ur	0.70
11:31	5.7	20.7	170	ur	0.68

WELL ID: MW15

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:49	6.2	19.6	430	ur	1.19
11:51	6.2	19.5	430	ur	0.89
11:53	6.2	19.8	430	ur	0.54
11:55	6.2	20.0	430	ur	0.51

WELL ID: MW18

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:15	6.2	20.7	410	ur	1.10
12:17	6.2	21.1	400	ur	0.73
12:19	6.2	21.4	400	ur	0.52

WELL ID: MW 4

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:09	5.8	20.2	300	-30	1.17
1:11	5.7	19.9	300	-34	0.97
1:13	5.7	19.9	300	-37	0.87
1:15	5.7	19.3	290	-37	0.96

LACO ASSOCIATES
CONSULTING ENGINEERS

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

Project Name: R. VILLAGE TEXACO - WBS

Project No.: 4329.04

Tech: RLB

Date: 5-17-06

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)
8:05	5.82	8:10	21.85	8:15	6.73	8:20	24.99	8:25	14.64	8:30	7.22
10:05	5.82	11:24	21.85	10:45	6.73	9:20	24.99	9:25	14.64	9:30	7.22

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)
8:35	9.16	8:40	5.49	8:45	25.29	8:50	7.41	8:55	7.11	9:00	5.76
9:35	9.16	9:40	5.49	9:45	25.29	10:10	7.41	11:20	7.11	11:45	5.76

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)
9:05	13.72	9:10	13.80	9:15	5.74						
9:50	13.72	9:55	13.80	12:10	5.74						

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): RLD

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: 4329.04
Project Name: W&S - R Village Texaco
Purchase Order Number: task 30391

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 1	ANALYSIS: 8260 List5	CONTAINER	PRESERVATIVE
	4329-MW4-W	5-17-06	AM	GW			9	b
	4329-MW5-W				3		9	b
	4329-MW6-W				3			
	4329-MW13-W					3		
	4329-MW14-W				3			
	4329-MW15-W				3			
					3			
					3			
	4329-MW18-W				3			
	4329-QCMB-W		PM		3			

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

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

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

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

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

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

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

Chain of Custody

LABORATORY NUMBER:

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

Phone: (707) 443-5054
Copies of Report to: LACO ; Chris Watt

Sampler (Sign & Print): RLD

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: 4329.04
Project Name: W&S - R Village Texaco
Purchase Order Number: task 3039

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	ANALYSIS: 8260 List 1
	4329-QCFD-W	5-17-06	AM	GW	9	b	3
	4329-QCTB-W	↓	PM	↓			1

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

RECEIVED
LACO ASSOCIATES
JUN 06 2006
BY: CM

CJW

NORTH COAST LABORATORIES LTD.

June 01, 2006

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

Attn: Accounts Payable

RE: 4329.04 W&S-R Village Texaco

Order No.: 0605437
Invoice No.: 58525
PO No.: TASK 3039
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4329-MW4-W
02A	4329-MW5-W
03A	4329-MW6-W
04A	4329-MW13-W
05A	4329-MW14-W
06A	4329-MW15-W
07A	4329-MW18-W
08A	4329-QCMB-W
09A	4329-QCFD-W
10A	4329-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

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

REPORT CERTIFIED BY

Collin Blackstone — Laboratory Supervisor(s)

T. Shen — QA Unit

(FOR SLC) — Jesse G. Chaney, Jr., Laboratory Director

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Printed on Recycled Paper

CLIENT: LACO Associates
Project: 4329.04 W&S-R Village Texaco
Lab Order: 0605437

CASE NARRATIVE

Gasoline Components/Additives:
Some reporting limits were raised for samples 4329-MW4-W, 4329-MW6-W, 4329-MW15-W, 4329-MW18-W and 4329-QCFD-W due to matrix interference.

Sample 4329-MW6-W was diluted and the reporting limit for TBA was raised additionally due to matrix interference.

TPH as Gasoline:
The gasoline values for samples 4329-MW4-W, 4329-MW6-W, 4329-MW13-W, 4329-MW14-W, 4329-MW15-W, 4329-MW18-W and 4329-QCFD-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

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Date: 01-Jun-06
WorkOrder: 0605437

ANALYTICAL REPORT

Client Sample ID: 4329-MW4-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-01A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	530	50	µg/L	50		5/31/06
Tert-butyl alcohol (TBA)	250	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	4.0	µg/L	1.0		5/31/06
Benzene	4.0	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	32	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	10	0.50	µg/L	1.0		5/31/06
m,p-Xylene	1.3	0.50	µg/L	1.0		5/31/06
o-Xylene	ND	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	93.3	80.8-139	% Rec	1.0		5/31/06

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		5/31/06

Client Sample ID: 4329-MW5-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-02A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		5/31/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	ND	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/31/06
Toluene	0.58	0.50	µg/L	1.0		5/31/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/31/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/31/06
o-Xylene	ND	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	93.9	80.8-139	% Rec	1.0		5/31/06

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		5/31/06

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Date: 01-Jun-06
WorkOrder: 0605437

ANALYTICAL REPORT

Client Sample ID: 4329-MW6-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-03A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	18,000	1,000	µg/L	1,000		5/31/06
Tert-butyl alcohol (TBA)	ND	2,500	µg/L	50		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	79	1.0	µg/L	1.0		5/31/06
Benzene	2,300	25	µg/L	50		5/31/06
Tert-amyl methyl ether (TAME)	260	50	µg/L	50		5/31/06
1,2-Dichloroethane	ND	5.0	µg/L	1.0		5/31/06
Toluene	54	0.50	µg/L	1.0		5/31/06
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/31/06
Chlorobenzene	ND	1.0	µg/L	1.0		5/31/06
Ethylbenzene	1,700	25	µg/L	50		5/31/06
m,p-Xylene	640	25	µg/L	50		5/31/06
o-Xylene	200	25	µg/L	50		5/31/06
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/31/06
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/31/06
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	88.0	80.8-139	% Rec	1.0		5/31/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	30,000	2,500	µg/L	50		5/31/06

Client Sample ID: 4329-MW13-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-04A **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		5/31/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	2.1	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	0.75	0.50	µg/L	1.0		5/31/06
m,p-Xylene	0.72	0.50	µg/L	1.0		5/31/06
o-Xylene	ND	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	98.6	80.8-139	% Rec	1.0		5/31/06

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Date: 01-Jun-06

ANALYTICAL REPORT

WorkOrder: 0605437

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	170	50	µg/L	1.0		5/31/06

Client Sample ID: 4329-MW14-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00

Lab ID: 0605437-05A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	4.7	1.0	µg/L	1.0		5/31/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	3.0	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	3.4	0.50	µg/L	1.0		5/31/06
m,p-Xylene	2.3	0.50	µg/L	1.0		5/31/06
o-Xylene	1.0	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	95.6	80.8-139	% Rec	1.0		5/31/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	68	50	µg/L	1.0		5/31/06

Client Sample ID: 4329-MW15-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00

Lab ID: 0605437-06A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	7.0	1.0	µg/L	1.0		5/31/06
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	8.0	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	21	0.50	µg/L	1.0		5/31/06
m,p-Xylene	10	0.50	µg/L	1.0		5/31/06
o-Xylene	4.3	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	93.7	80.8-139	% Rec	1.0		5/31/06

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	2,300	50	µg/L	1.0		5/31/06

Client Sample ID: 4329-MW18-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-07A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	32	1.0	µg/L	1.0		5/31/06
Tert-butyl alcohol (TBA)	ND	30	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	39	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	2.7	1.0	µg/L	1.0		5/31/06
Toluene	2.8	0.50	µg/L	1.0		5/31/06
Ethylbenzene	140	25	µg/L	50		5/31/06
m,p-Xylene	180	0.50	µg/L	1.0		5/31/06
o-Xylene	36	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	86.7	80.8-139	% Rec	1.0		5/31/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	5,600	2,500	µg/L	50		5/31/06

Client Sample ID: 4329-QCMB-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-08A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		5/31/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	ND	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/31/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/31/06
o-Xylene	ND	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	96.2	80.8-139	% Rec	1.0		5/31/06

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		5/31/06

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Date: 01-Jun-06
WorkOrder: 0605437

ANALYTICAL REPORT

Client Sample ID: 4329-QCFD-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-09A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	520	50	µg/L	50		5/31/06
Tert-butyl alcohol (TBA)	280	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	4.0	µg/L	1.0		5/31/06
Benzene	3.9	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	32	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	9.7	0.50	µg/L	1.0		5/31/06
m,p-Xylene	1.4	0.50	µg/L	1.0		5/31/06
o-Xylene	ND	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	92.4	80.8-139	% Rec	1.0		5/31/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,800	50	µg/L	1.0		5/31/06

Client Sample ID: 4329-QCTB-W **Received:** 5/18/06 **Collected:** 5/17/06 0:00
Lab ID: 0605437-10A **Matrix:** Groundwater

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		5/31/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/31/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/31/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/31/06
Benzene	ND	0.50	µg/L	1.0		5/31/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/31/06
Toluene	ND	0.50	µg/L	1.0		5/31/06
Ethylbenzene	ND	0.50	µg/L	1.0		5/31/06
m,p-Xylene	ND	0.50	µg/L	1.0		5/31/06
o-Xylene	ND	0.50	µg/L	1.0		5/31/06
Surrogate: 1,4-Dichlorobenzene-d4	95.6	80.8-139	% Rec	1.0		5/31/06

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		5/31/06

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North Coast Laboratories, Ltd.

Date: 05-Jun-06

CLIENT: LACO Associates
Work Order: 0605437
Project: 4329.04 W&S-R Village Texaco

QC SUMMARY REPORT

Method Blank

Sample ID: **MB-5/31/06** Batch ID: **R41570** Test Code: **8260OXYW** Units: **µg/L** Analysis Date: **6/1/06 2:40:00 AM** Prep Date:

Client ID: Run ID: **ORGCMS3_060531B** SeqNo: **597045**

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	0.1019	0.50									J
Tert-amyl methyl ether (TAME)	ND	1.0									
1,2-Dichloroethane	ND	1.0									
Toluene	0.08655	0.50									J
1,2-Dibromoethane (EDB)	ND	1.0									
Chlorobenzene	ND	1.0									
Ethylbenzene	0.2863	0.50									J
m,p-Xylene	0.3403	0.50									J
o-Xylene	ND	0.50									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene-d4	0.939	0.10	1.00	0	93.9%	81	139	0			

Sample ID: **MB-5/31/06** Batch ID: **R41569** Test Code: **GASW-MS** Units: **µg/L** Analysis Date: **6/1/06 2:40:00 AM** Prep Date:

Client ID: Run ID: **ORGCMS3_060531A** SeqNo: **597008**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	24.46	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: 05-Jun-06

CLIENT: LACO Associates
Work Order: 0605437
Project: 4329.04 W&S-R Village Texaco

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-06332** Batch ID: **R41570** Test Code: **8260OXYW** Units: **µg/L** Analysis Date: **5/31/06 11:41:00 AM** Prep Date:

Client ID: Run ID: **ORGCMS3_060531B** SeqNo: **597042**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.00	1.0	20.0	0	95.0%	80	120	0			
Tert-butyl alcohol (TBA)	471.9	10	400	0	118%	25	162	0			
Di-isopropyl ether (DIPE)	18.34	1.0	20.0	0	91.7%	80	120	0			
Ethyl tert-butyl ether (ETBE)	18.41	1.0	20.0	0	92.1%	77	120	0			
Benzene	18.21	0.50	20.0	0	91.0%	78	117	0			
Tert-amyl methyl ether (TAME)	20.28	1.0	20.0	0	101%	64	136	0			
1,2-Dichloroethane	19.02	1.0	20.0	0	95.1%	74	121	0			
Toluene	19.12	0.50	20.0	0	95.6%	80	120	0			
1,2-Dibromoethane (EDB)	19.19	1.0	20.0	0	96.0%	80	120	0			
Chlorobenzene	19.08	1.0	20.0	0	95.4%	80	120	0			
Ethylbenzene	19.28	0.50	20.0	0	96.4%	80	120	0			
m,p-Xylene	37.92	0.50	40.0	0	94.8%	80	120	0			
o-Xylene	21.21	0.50	20.0	0	106%	80	120	0			
1,3-Dichlorobenzene	19.81	1.0	20.0	0	99.1%	81	125	0			
1,4-Dichlorobenzene	19.57	1.0	20.0	0	97.8%	79	132	0			
1,2-Dichlorobenzene	19.89	1.0	20.0	0	99.5%	81	134	0			
1,4-Dichlorobenzene-d4	1.00	0.10	1.00	0	100%	81	139	0			

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: 0605437
Project: 4329.04 W&S-R Village Texaco

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **LCSD-06332** Batch ID: **R41570** Test Code: **8260OXYW** Units: **µg/L** Analysis Date: **6/1/06 12:07:00 PM** Prep Date:
Client ID: Run ID: **ORGCMS3_060531B** SeqNo: **597043**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.12	1.0	20.0	0	95.6%	80	120	19.0	0.634%	20	
Tert-butyl alcohol (TBA)	487.1	10	400	0	122%	25	162	472	3.18%	20	
Di-isopropyl ether (DIPE)	18.83	1.0	20.0	0	94.1%	80	120	18.3	2.63%	20	
Ethyl tert-butyl ether (ETBE)	18.58	1.0	20.0	0	92.9%	77	120	18.4	0.940%	20	
Benzene	18.23	0.50	20.0	0	91.1%	78	117	18.2	0.116%	20	
Tert-amyl methyl ether (TAME)	20.52	1.0	20.0	0	103%	64	136	20.3	1.18%	20	
1,2-Dichloroethane	19.11	1.0	20.0	0	95.6%	74	121	19.0	0.502%	20	
Toluene	19.37	0.50	20.0	0	96.8%	80	120	19.1	1.27%	20	
1,2-Dibromoethane (EDB)	19.97	1.0	20.0	0	99.8%	80	120	19.2	3.96%	20	
Chlorobenzene	19.32	1.0	20.0	0	96.6%	80	120	19.1	1.21%	20	
Ethylbenzene	19.12	0.50	20.0	0	95.6%	80	120	19.3	0.811%	20	
m,p-Xylene	38.08	0.50	40.0	0	95.2%	80	120	37.9	0.422%	20	
o-Xylene	21.08	0.50	20.0	0	105%	80	120	21.2	0.622%	20	
1,3-Dichlorobenzene	19.89	1.0	20.0	0	99.4%	81	125	19.8	0.390%	20	
1,4-Dichlorobenzene	19.91	1.0	20.0	0	99.5%	79	132	19.6	1.71%	20	
1,2-Dichlorobenzene	20.18	1.0	20.0	0	101%	81	134	19.9	1.42%	20	
1,4-Dichlorobenzene-d4	1.00	0.10	1.00	0	100%	81	139	1.00	0.305%	20	

Sample ID: **LCS-06333** Batch ID: **R41569** Test Code: **GASW-MS** Units: **µg/L** Analysis Date: **6/1/06 12:58:00 PM** Prep Date:
Client ID: Run ID: **ORGCMS3_060531A** SeqNo: **597005**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	909.0	50	1,000	0	90.9%	80	120	0			

Sample ID: **LCSD-06333** Batch ID: **R41569** Test Code: **GASW-MS** Units: **µg/L** Analysis Date: **6/1/06 1:24:00 AM** Prep Date:
Client ID: Run ID: **ORGCMS3_060531A** SeqNo: **597006**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	922.8	50	1,000	0	92.3%	80	120	909	1.51%	20	

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

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

Chain of Custody

LABORATORY NUMBER: 0605437

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): RLD

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: 4329.04
Project Name: W&S - R Village Texaco
Purchase Order Number: task 30351

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS	CONTAINER	PRESERVATIVE
					8260 List 1	9	b
					8260 List5	9	b
	4329-MW4-W	5-17-06	AM	GW	3		
	4329-MW5-W				3		
	4329-MW6-W					3	
	4329-MW13-W				3		
	4329-MW14-W				3		
	4329-MW15-W				3		
	4329-MW18-W				3		
	4329-QCMB-W		PM		3		

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
J. Wellik	5/18/06 12:30	Colin Montgomery	5/18/06 12:30

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

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

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

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

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

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): RLD

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: 4329.04
Project Name: W&S - R Village Texaco
Purchase Order Number: task 3039

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 1 (CONTAINER 9, PRESERVATIVE b)
	4329-QCFD-W	5-17-06	AM	GW	3
	4329-QCTB-W	↓	PM	↓	1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
J. Wellik 5/18/06	12:30	Carla Montgomery	5/18/06 1230

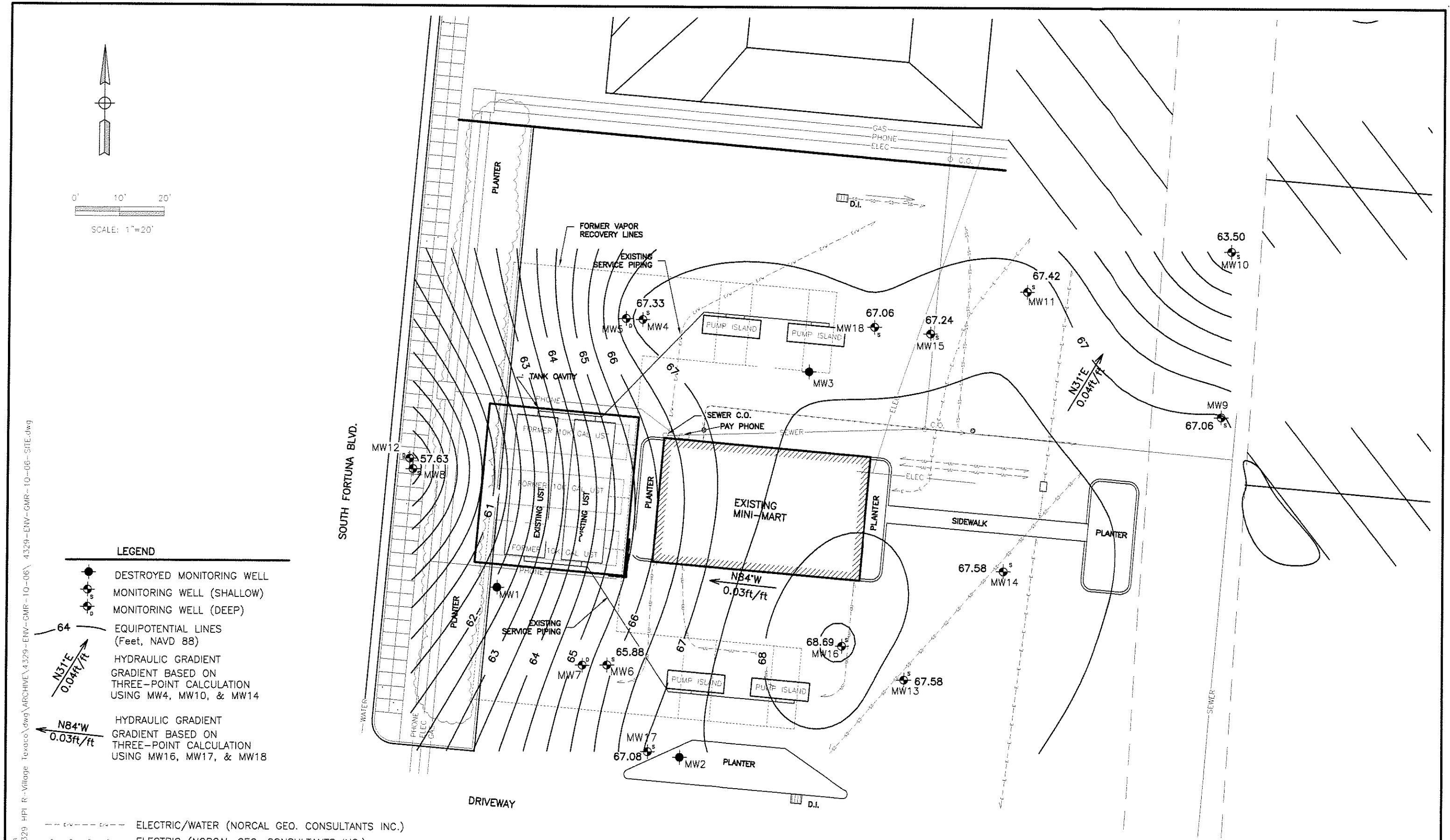
SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

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 3



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 WELLS (2/09/06)

W & S ENVIRO
R.VILLAGE TEXACO, FORTUNA

SCALE	1"=20'
DRAWN	RJM
CHECK	
APPVD	
DATE	6/27/06
JOB NO.	4329.04
FIGURE	3

Jun 27,2006-8:50am
T:\CADFILES\4000\4329 HPI R-Village Texaco\dwg\ARCHIVE\4329-ENV-GMR-1Q-06\ 4329-ENV-GMR-1Q-06-SITE.dwg