Edd Clark & Associates, Inc.
Environmental Consultants

January 9, 2006
Job No.: 0351,001.99

Steve Hart
1952 Siesta Lane
Santa Rosa, CA 95403

Groundwater Monitoring Report - October 2005 Event
1952 Siesta Lane
Santa Rosa, California
NCRWQCB Case No. 1TSR360

Dear Mr. Hart:

Please accept this as Edd Clark & Associates, Inc.'s (EC&A's) report on the October 6, 2005 groundwater monitoring event at 1952 Siesta Lane (site) in Santa Rosa, California (Figure 1). Groundwater monitoring is being conducted at the site at the request of the North Coast Regional Water Quality Control Board (NCRWQCB) because of a release of fuel hydrocarbons (FHCs) to the subsurface from the former underground storage tank (UST) for heating oil.

Monitoring activities for this event included measuring depth to water (DTW) in monitoring wells MW-1 through MW-4 (Figure 2); collecting groundwater samples for chemical analyses from MW-2, MW-3 and MW-4; calculating groundwater-flow direction and gradient; evaluating the results of the calculations and analyses; and preparing this report. A copy of this report will be sent to the NCRWQCB and the Santa Rosa Fire Department (SRFD) for their review.

Water-level Measurements
On October 6, 2005, EC&A personnel measured DTW in MW-1, MW-2, MW-3 and MW-4. DTW below the top of well casing (TOC) in each well was measured to the nearest 0.01 foot (ft) with a water-level meter. The meter was cleaned and rinsed prior to taking measurements in each well. The DTW was recorded after the well caps were removed and groundwater in the wells had been allowed to equilibrate for a minimum of 15 minutes. DTW in MW-1 through MW-4 ranged from 16.56 ft (MW-2) to 16.99 ft (MW-3); the groundwater-flow direction and gradient in the vicinity of the former UST were calculated to be N32°W and 0.003 ft/ft, respectively (Table 1 and Figure 2).

Groundwater Field Logs containing DTW measurements are in Appendix A. DTW data will be electronically submitted to the State GeoTracker Internet Database.

Groundwater Sampling Procedures
On October 6, 2005, EC&A personnel collected groundwater samples from MW-2, MW-3 and MW-4. Prior to collecting samples, the wells were purged with a submersible pump. Purged water was checked for the presence of free-floating product. Free-floating product was not present in the purged water. Groundwater pH, temperature and electric conductivity were recorded during purging

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of each well at intervals of approximately one well-casing volume. Groundwater samples were collected from each well after groundwater parameters stabilized and the water level returned to a minimum of 80% of the initially recorded water level. Purge volumes and groundwater-quality parameters are recorded on the Field Logs in Appendix A.

Groundwater samples were collected in new single-sample, disposable bailers fitted with disposable, bottom-emptying devices to minimize water degassing. The samples were transferred from the bailers to properly labeled, laboratory-supplied sterile sample containers, logged on a chain-of-custody form, placed on ice and transported to McCampbell Analytical, Inc. (MAI) for the required chemical analyses. MAI is a State-certified laboratory in Pacheco, California.

Decontamination Procedures

Sampling equipment was cleaned onsite with a low-phosphorous soap and water solution and double rinsed with tap water. Decontamination water and monitoring well purge water were placed in properly labeled, DOT 17H 55-gallon drums for temporary, onsite storage.

Groundwater Sample Analysis and Analytical Results

Groundwater samples were analyzed by Analytical Method SW8015C for total petroleum hydrocarbons (TPH) as diesel (d) and by Analytical Method SW8021B for benzene, toluene, ethylbenzene and xylenes (BTEX). TPHd was detected in groundwater samples collected from MW-2, MW-3 and MW-4 at 110 micrograms per liter (µg/l), 330 µg/l and 280 µg/l, respectively. Low concentrations of benzene, toluene, ethylbenzene and/or xylenes were detected in groundwater samples from all three wells. The maximum concentrations of benzene, toluene, ethylbenzene and xylenes were detected in MW-4 at 8.7 µg/l, 13 µg/l, 4.6 µg/l and 18 µg/l, respectively.

Analytical results for monitoring well samples are summarized in Table 2. TPHd results are presented on Figure 2; concentrations of TPHd over time in MW-3 and MW-4 are presented on Figure 3. Historic results for groundwater samples collected from the inactive, onsite water-supply well and nearby, offsite irrigation wells are summarized in Table 3. A complete copy of the analytical laboratory report is in Appendix B. Groundwater sample results will be electronically submitted to the State GeoTracker Internet Database.

Discussion

The groundwater-flow direction has been westerly for all sample events conducted to date, except for the December 2002 monitoring event, when it was southerly. The primary contaminant in groundwater beneath the site is TPHd.

Out-of-service water-supply well WW-1 has been removed from the sampling program. FHCs were not detected in WW-1 for five consecutive groundwater sample events and the well is not in-service. Groundwater analytical results for WW-1 are presented in Table 3.

In MW-1, which is located approximately 55 ft northwest and down/cross-gradient from the former UST, TPHd has not been detected since sampling began in November 2001. Minor concentrations

of xylenes were detected in MW-1 in two of seven monitoring events conducted to date (June 2003 and April 2005).

Prior to the October 2005 event in MW-2, which is located approximately 65 ft and down-gradient from the former UST, TPHd had not been detected since June 2003. In October 2005, TPHd was detected at 110 µg/l in MW-2, making it the first detection in the past seven consecutive events for which MW-2 was sampled. Minor concentration of BTEX compounds have only been detected in MW-2 for the past two events for which it was sampled (April and October 2005); previous to April 2005, BTEX was non-detect (ND) for twelve consecutive events.

TPHd concentrations in MW-3 continue to fluctuate between sampling events. MW-3 is located approximately 15 ft southeast and cross-gradient from the former location of the UST. Since the October 2002 over-excavation, concentrations of TPHd in MW-3 have ranged from 94 µg/l in June 2004 to 25,000 µg/l in December 2002. Between the July and October 2005 sample events, TPHd concentrations decreased from 730 µg/l to 330 µg/l. BTEX compounds in MW-3 have only been detected twice (April and October 2005). For the October 2005 event, benzene and toluene were detected for the first time in MW-3 and ethylbenzene and xylenes for the second time, all at minor concentrations.

TPHd concentrations in MW-4 have ranged from 91 µg/l in July 2005 to 1400 µg/l in December 2003. Between the July and October 2005 sample events, the TPHd concentration increased from 91 µg/l to 280 µg/l. MW-4 is located approximately 10 ft northwest and down/cross-gradient from the former location of the UST. For the October 2005 event, benzene and toluene were detected for the first time in MW-4 (at 8.7 µg/l and 13 µg/l, respectively); ethylbenzene and xylenes were detected at the highest concentrations to date (4.6 µg/l and 18 µg/l, respectively).

There is a tenuous relationship between the fluctuations of groundwater elevations and TPHd concentrations in MW-3 and MW-4 (Figure 3). There have been four wet-season peaks in TPHd concentrations in MW-3 since monitoring began in November 2001. In the 2001-2002 and 2003-2004 wet seasons, the highest TPHd concentrations were measured in the monitoring event preceding the highest groundwater elevation (November 2001 and December 2003). In the 2002-2003 and 2004-2005 wet seasons, the highest TPHd concentrations coincided with the highest groundwater elevation (December 2002 and January 2005). However, significant rises in TPHd concentrations in MW-3 took place in September 2002, and October 2004 while groundwater levels were still low. A similar relationship is observed in MW-4, where the fall samples in 2002, 2003 ND 2004 showed increased concentrations of TPHd at the same time that groundwater levels were still declining.

Overall, there has been a slight decline in the maximum and minimum TPHd concentrations in MW-3 and MW-4 since the October 2002 over-excavation (Figure 3). However, because TPHd concentrations are declining very slowly, it appears that the time frame for natural degradation to reduce FHC concentrations to levels compliant with NCRWQCB Water Quality Objectives (WQOs) would be great, requiring extended groundwater monitoring. Interim remediation consisting of

groundwater extraction and disposal would significantly reduce the time frame to achieve the NCRWQCB WQOs.

Recommendations

EC&A recommends continued quarterly sampling of MW-3 and MW-4, and annual sampling of MW-1 during seasonally high water-table levels. Because the highest concentrations of FHCs detected to date were found in MW-2, EC&A recommends resumption of quarterly sampling of this well. Groundwater samples should continue to be analyzed for TPHd and BTEX. DTW measurements should be collected quarterly from MW-1 through MW-4.

Schedule

The next groundwater monitoring event is a quarterly event and is scheduled for January 2006.

As requested by the NCRWQCB, EC&A is preparing an interim-remediation workplan proposing High Vacuum Dual Phase Extraction. The workplan will be completed by January 31, 2006.

Limitations

The conclusions presented in this report are professional opinions based on the information presented herein, which includes data generated by others. Whereas EC&A does not guarantee the accuracy of data supplied by third parties, we reserve the right to use this data in formulating our professional opinions. This report is intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A the opportunity to provide environmental services for you. Please call John Calomiris, project manager, if you have any questions.

Very truly yours,

Etta Jon VandenBosch
Environmental Scientist

Richard Ely, PG #4137
Senior Geologist

PROFESSIONAL GEOLOGIST
Richard W. Ely
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STATE OF CALIFORNIA

Attachments: Figure 1 - Site Location Map
Figure 2 - Groundwater Elevation Map with TPHd Concentrations, 6 October 2005
Figure 3 - Concentrations of TPHd Versus Time in Monitoring Wells MW-3 and MW-4

Table 1 - Groundwater Elevation Data
Table 2 - Monitoring Well Groundwater Sample Analytical Results
Table 3 - Water Well Groundwater Sample Analytical Results

Appendix A - Groundwater Field Logs
Appendix B - Analytical Laboratory Report

cc: Joan Fleck, North Coast Regional Water Quality Control Board
Cliff Vaniman, Santa Rosa Fire Department

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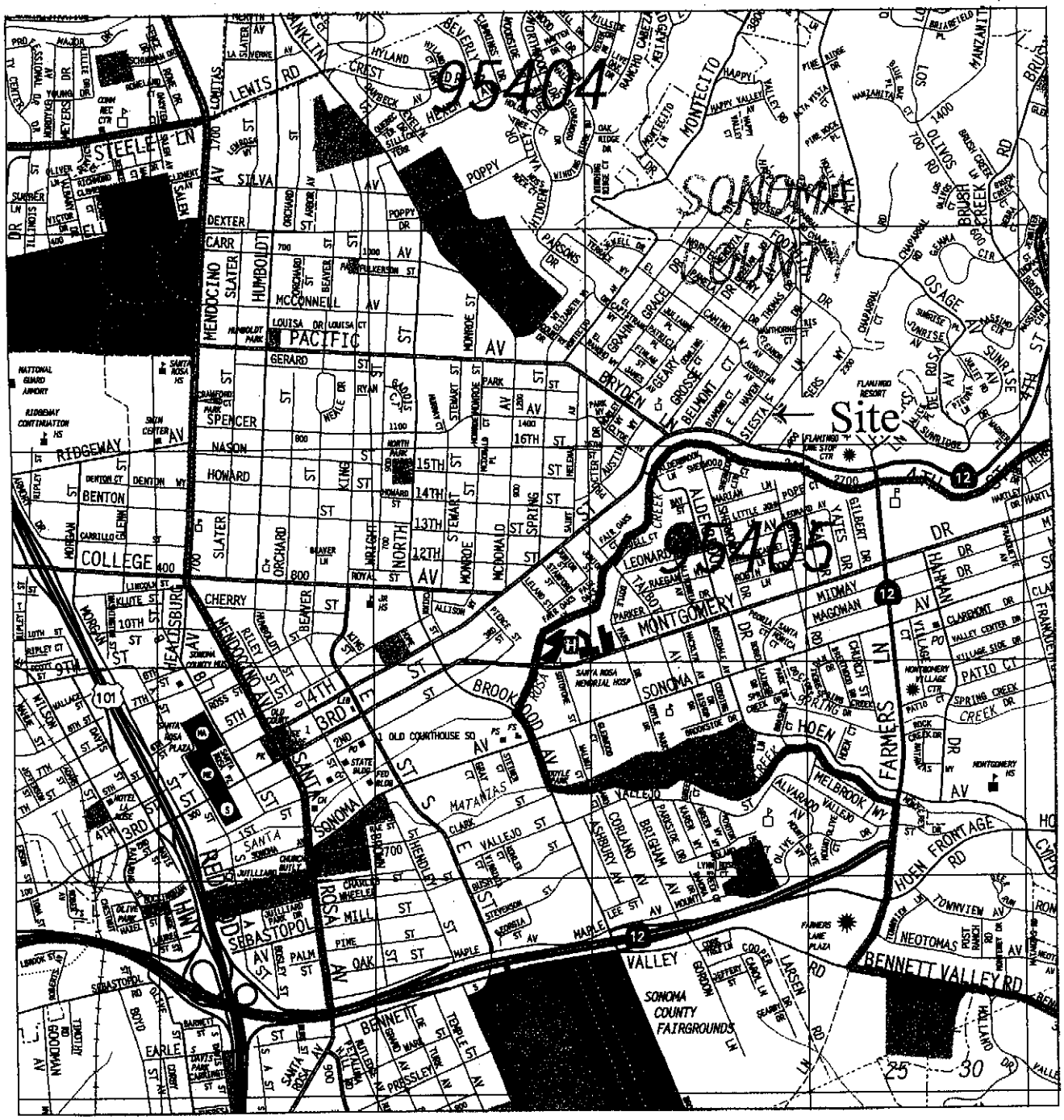

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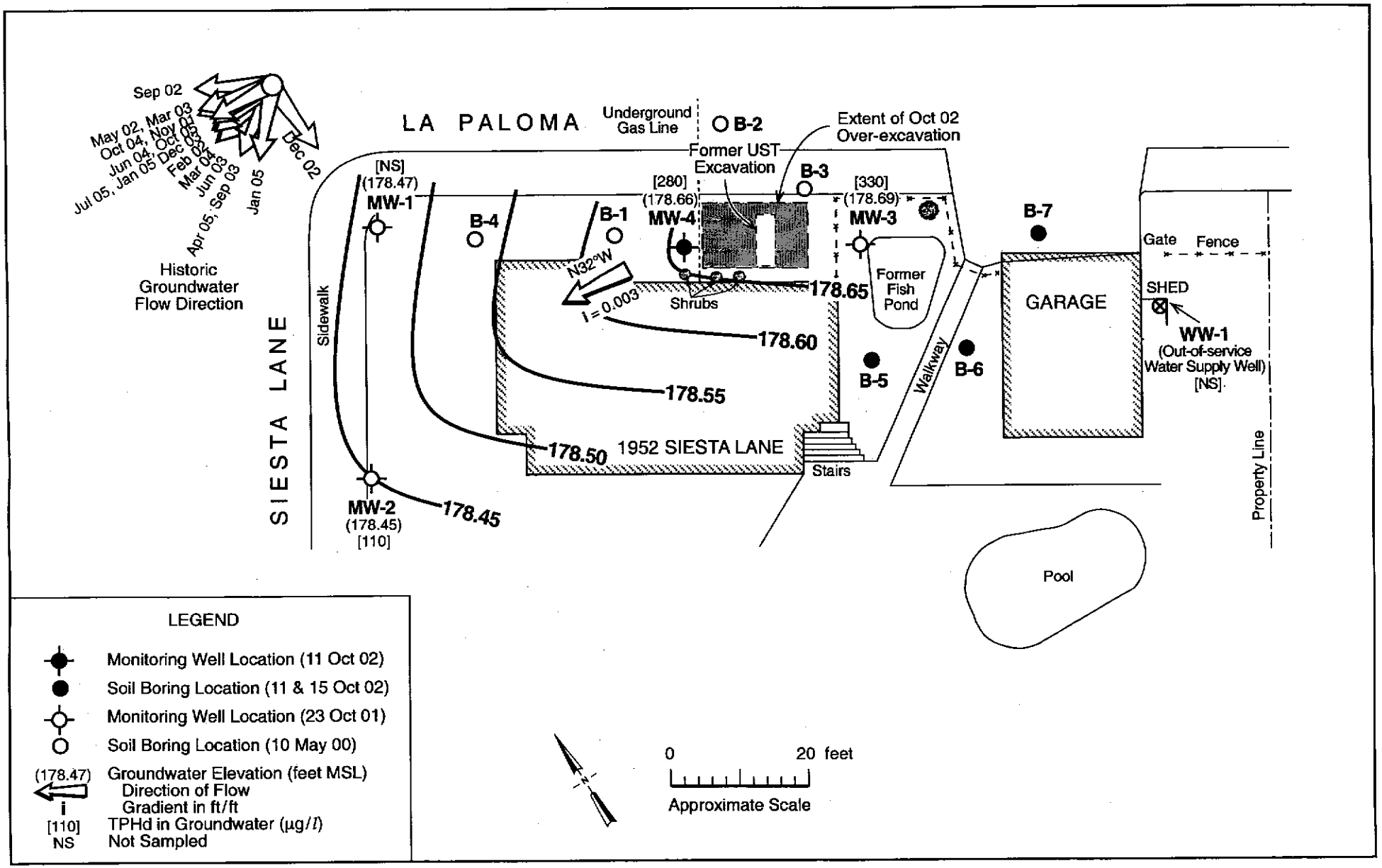
Site Location Map
1952 Siesta Lane
Santa Rosa, California

FIGURE
1

JOB NUMBER	REVIEWED BY:	DATE:	REVISED DATE:
0351,001.99	Lori Brown	January 2003	



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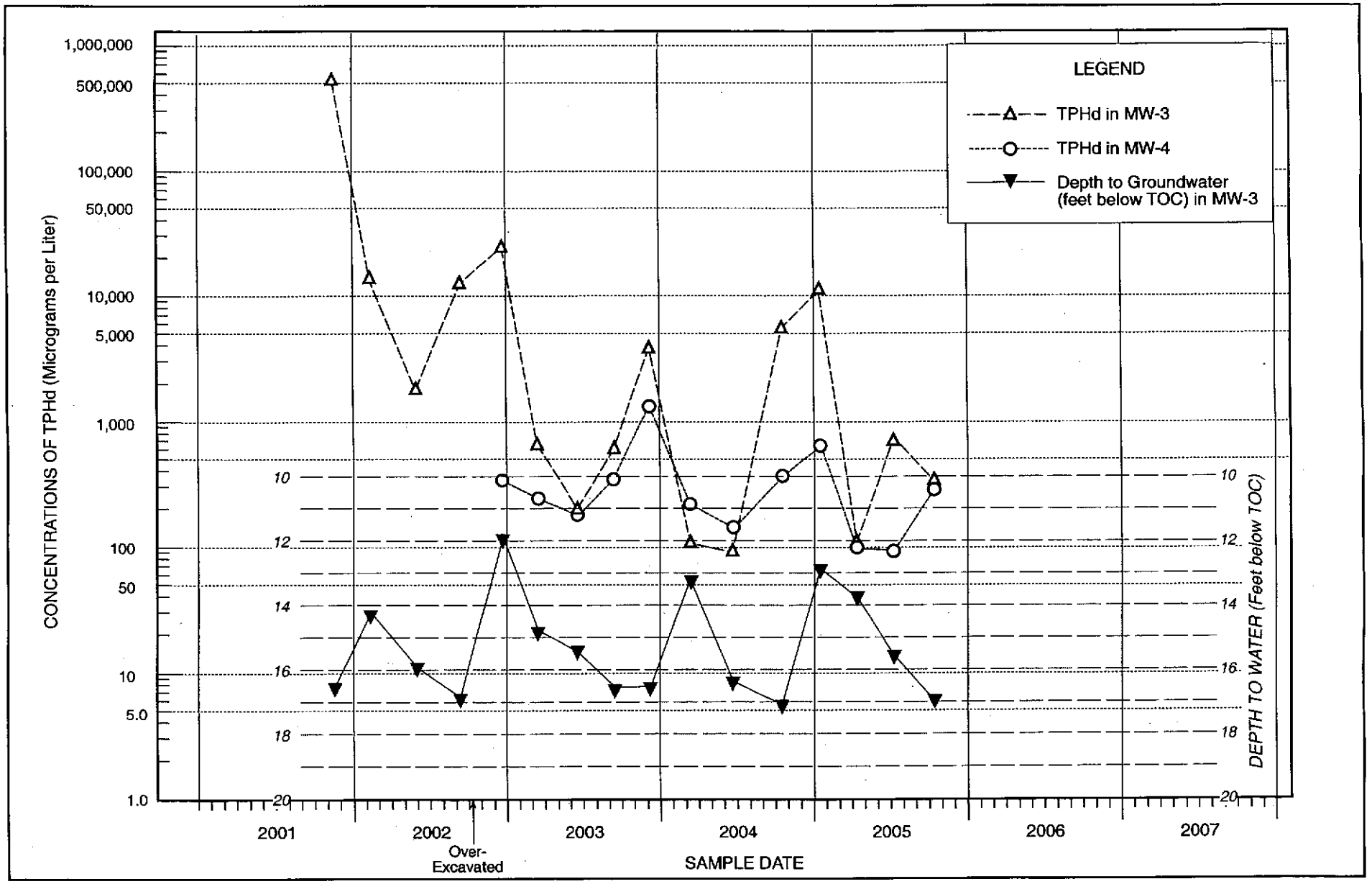
GROUNDWATER ELEVATION MAP
with TPHd Concentrations, 06 October 2005

1952 Siesta Lane
Santa Rosa, California

FIGURE
2

JOB NUMBER	0351, 001.99	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	March 2005	REVISED DATE	December 2005

(TRACE #350/RG/30Dec05)



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CONCENTRATIONS OF TPHd VERSUS TIME
in Monitoring Wells MW-3 and MW-4
1952 Siesta Lane
Santa Rosa, California

FIGURE
3

(TRACE #350/RG/21Aug05)

JOB NUMBER	REVIEWED BY	DATE	REVISED	SHEET NO.
0351,001.99	EC&A, E.J. VandenBosch	March 2005	December 2005	1 of 1

Table 1. Groundwater Elevation Data
1952 Siesta Lane, Santa Rosa, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	11/14/01	195.41	16.66	178.75
MW-2		195.01	16.29	178.72
MW-3		195.68	16.78	178.90
Gradient: S78°W, 0.023 ft/ft				
MW-1	02/11/02	195.41	14.36	181.05
MW-2		195.01	14.02	180.99
MW-3		195.68	14.52	181.16
Gradient: S80°W, 0.0022 ft/ft				
MW-1	05/29/02	195.41	16.03	179.38
MW-2		195.01	15.66	179.35
MW-3		195.68	16.14	179.54
Gradient: N77°W, 0.0024 ft/ft				
MW-1	09/09/02	195.41	17.03	178.38
MW-2		195.01	16.64	178.37
MW-3		195.68	17.10	178.58
Gradient: N62°W, 0.0028 ft/ft				
MW-1	12/23/02	195.41	11.82	183.59
MW-2		195.01	11.49	183.52
MW-3		195.68	12.18	183.50
MW-4		195.53	12.01	183.52
Gradient: S04°E, ? *				
MW-1	03/12/03	195.41	14.94	180.47
MW-2		195.01	14.59	180.42
MW-3		195.68	15.05	180.63
MW-4		195.53	14.91	180.62
Gradient: N77°W, 0.0036 ft/ft **				

Table 1. Groundwater Elevation Data
1952 Siesta Lane, Santa Rosa, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	06/16/03	195.41	15.51	179.90
MW-2		195.01	15.15	179.86
MW-3		195.68	15.61	180.07
MW-4		195.53	15.49	180.04
Gradient: S77°W, 0.0032 ft/ft				
MW-1	9/10/03	195.41	16.81	178.60
MW-2		195.01	16.42	178.59
MW-3		195.68	16.87	178.81
MW-4		195.53	16.75	178.78
Gradient: S57°W, 0.0045 ft/ft				
MW-1	12/03/03	195.41	16.69	178.72
MW-2		195.01	16.31	178.70
MW-3		195.68	16.78	178.90
MW-4		195.53	16.65	178.88
Gradient: S86°W, 0.0032 ft/ft				
MW-1	03/08/04	195.41	13.23	182.18
MW-2		195.01	12.90	182.11
MW-3		195.68	13.43	182.25
MW-4		195.53	13.30	182.23
Gradient: S71°W, 0.002 ft/ft				
MW-1	06/21/04	195.41	16.51	178.90
MW-2		195.01	16.13	178.88
MW-3		195.68	16.58	179.10
MW-4		195.53	16.47	179.06
Gradient: N90°W, 0.003 ft/ft				

Table 1. Groundwater Elevation Data
1952 Siesta Lane, Santa Rosa, California

Well ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	10/15/04	195.41	17.29	178.12
MW-2		195.01	16.89	178.12
MW-3		195.68	17.33	178.35
MW-4		195.53	17.23	178.30
Gradient: N80°W, 0.003 ft/ft				
MW-1	01/14/05	195.41	12.91	182.50
MW-2		195.01	12.56	182.45
MW-3		195.68	13.16	182.52
MW-4		195.53	13.01	182.52
Gradient: S42°W, 0.002 ft/ft				
MW-1	04/08/05	195.41	13.55	181.86
MW-2		195.01	13.21	181.80
MW-3		195.68	13.77	181.91
MW-4		195.53	13.83	181.70
Gradient: S58°W, 0.002 ft/ft				
MW-1	07/01/05	195.41	15.51	179.90
MW-2		195.01	15.15	179.86
MW-3		195.68	15.62	180.06
MW-4		195.53	15.49	180.04
Gradient: S88°W, 0.003 ft/ft				
MW-1	**10/06/05**	**195.41**	**16.94**	**178.47**
MW-2		**195.01**	**16.56**	**178.45**
MW-3		**195.68**	**16.99**	**178.69**
MW-4		**195.53**	**16.87**	**178.66**
Gradient: N32°W, 0.003 ft/ft				

Notes

TOC: Top of casing elevation measured relative to mean sea level (msl)

DTW: Depth to water from TOC

NM: Not measured

*: The gradient was too flat over the area of measurement for a meaningful calculation of the gradient

**: The gradient was previously mis-recorded as S77°W, 0.0036 ft/ft in this table and on the Groundwater Elevation Map (GEM) for March 2003; the gradient for March 2003 as indicated above and by the contours on the March 2003 GEM was N77°W, 0.0036 ft/ft.

Table 2. Monitoring Well Groundwater Sample Analytical Results
1952 Siesta Lane, Santa Rosa, California

Sample ID	Date	DTW ft bgs	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l
MW-1 †	11/14/01	16.66	ND<50 [i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/11/02	14.36	ND<50 [i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	05/29/02	16.03	ND<50 [i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	09/09/02	17.03	ND<50 [i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/16/03	15.51	ND<50	ND<0.5	ND<0.5	ND<0.5	1.6
	03/08/04	13.23	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/08/05	13.55	ND<50	ND<0.5	ND<0.5	ND<0.5	0.56
	07/01/05	15.51	NS	NS	NS	NS	NS
	10/06/05	**16.94**	**NS**	**NS**	**NS**	**NS**	**NS**
MW-2 †	11/14/01	16.29	90 [b,i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/11/02	14.02	ND<50 [i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	05/29/02	15.66	60 [b]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	09/09/02	16.64	ND<50 [i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/23/02	11.49	240 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/12/03	14.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/16/03	15.15	58 [b]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	09/10/03	16.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/03/03	16.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/08/04	12.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/21/04	16.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/15/04	16.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/08/05	13.21	ND<50	ND<0.5	ND<0.5	0.75	1.6
	07/01/05	15.15	NS	NS	NS	NS	NS
	10/06/05	**16.56**	**110 [b,g]**	**0.55**	**0.83**	**ND<0.5**	**1.3**
MW-3	11/14/01	16.78	540,000 [a,h,i]	ND<0.5	ND<0.5	0.56	2.2
	02/11/02	14.52	15,000 [a,h,i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	05/29/02	16.14	1800 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	09/09/02	17.10	13,000 [a,i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 2. Monitoring Well Groundwater Sample Analytical Results
1952 Siesta Lane, Santa Rosa, California

Sample ID	Date	DTW ft bgs	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l
MW-3 continued	12/23/02	12.18	25,000 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/12/03	15.05	650 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/16/03	15.61	200 [c]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	09/10/03	16.87	600 [c]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/03/03	16.78	3900 [c]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/08/04	13.43	110 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/21/04	16.58	94 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/15/04	17.33	5500 [a,h]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	01/14/05	13.16	11,000 [a,h,i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/08/05	13.77	110 [b]	ND<0.5	ND<0.5	0.90	2.0
	07/01/05	15.62	730 [c,g]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/06/05	**16.99**	**330 [c,g]**	**1.2**	**1.6**	**0.64**	**2.2**
MW-4	12/23/02	12.01	330 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/12/03	14.91	240 [a]	ND<0.5	ND<0.5	1.1	2.0
	06/16/03	15.49	190 [a]	ND<0.5	ND<0.5	0.60	1.6
	09/10/03	16.75	330 [a]	ND<0.5	ND<0.5	ND<0.5	0.93
	12/03/03	16.65	1400 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/08/04	13.30	210 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/21/04	16.47	150 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/15/04	17.23	370 [a]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	01/14/05	13.01	640 [a,i]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/08/05	13.83	100 [b]	ND<0.5	ND<0.5	1.0	2.4
	07/01/05	15.49	91 [b]	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/06/05	**16.87**	**280 [d,b,g]**	**8.7**	**13**	**4.6**	**18**

Notes

DTW:	Depth to water below top of casing
ft bgs:	Feet below ground surface
TPHd:	Total petroleum hydrocarbons as diesel
µg/l:	Micrograms per liter
ND:	Not detected above the reporting limit
NS:	Not sampled
a:	Unmodified or weakly modified diesel is significant
b:	Diesel range compounds are significant; no recognizable pattern
c:	Aged diesel? is significant
d:	Gasoline range compounds are significant
g:	Oil range compounds are significant
h:	Lighter than water immiscible sheen is present
i:	Liquid sample that contains greater than ~1 or ~2 vol. % sediment
†:	MW-1 is sampled annually during seasonally high water; MW-2 is sampled semiannually during seasonally high and low water-table levels

0351\table 2

Table 3. Water Well Groundwater Sample Analytical Results
1952 Siesta Lane, Santa Rosa, California

Sample ID	Date	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l
WW-5	05/29/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-6	05/29/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-4	09/24/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-1	12/23/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-1	03/12/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-1	06/16/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-1	09/10/03	ND<50*	ND<0.5	ND<0.5	ND<0.5	ND<0.5
WW-1	12/03/03	ND<50*	ND<0.5	ND<0.5	ND<0.5	ND<0.5

WW-1 is an onsite, out-of-service water well
WW-4 is an 8-inch out-of-service irrigation well located at 1955 Rogers Way
WW-5 is a 6-inch irrigation well located at 2002 Siesta Lane
WW-6 is a 6-inch irrigation well located at 2014 Siesta Lane

TPHd: Total petroleum hydrocarbons as diesel
µg/l: Micrograms per liter
ND: Not detected above the reporting limit
*: TPHd analyzed using silica gel cleanup

0351\table 3

Appendix A

Groundwater Field Logs

DAILY FIELD RECORD

Project and Task Number: 0351	Date: 10/6/05
Project Name: T0609700770	Field Activity: G.W.M
Location: 1952 Siesta Lane	Weather: Sunny, Warm, Calm
Time of OVM Calibration:	

PERSONNEL

Name	Company	Time In	Time Out
R. Johnson	ECA		

DRUM I.D	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION
2	Purge H_2O	Behind fence
		left of Garage

TIME	[redacted]	[redacted]
11:32		ORDER - 1, 2, 4, 3
11:45	Arrive on-site, locate & open all wells	Pre DTW
12:38	Pre DTW	MW-1 - 16.94
12:48	Calculations for purge	MW-2 - 16.56
1:00	Begin purging wells in order	MW-3 - 16.99
1:30	allow for recharge	MW-4 - 16.87
2:00	Begin sampling wells in order	Post DTW
2:45	close & lock wells, clean up site	MW-2 - 17.30
3:00	back to office	MW-3 - 17.14
		MW-4 - 16.90

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0351	Field point name: MW-2
Global ID: T0609700770	Well depth from TOC: 20'
Project location: 1952 Siesta Lane	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: ~~10/45~~ 10/6/05	Product level from TOC: ND
Time: 10:45	Water level from TOC: 16.56
Recorded by: R. Johnson	Screened interval: 5-20'
Purge time (duration):	Well elevation (TOC): 195.01

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 3.44	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: .6	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 1.8	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
12:58	6.68	.53	70.6	1 / .6	Low turb
12:59	6.91	.52	70.2	2 / 1.2	No sheen
1:00	6.94	.51	70.00	3 / 1.8	No odor
				/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: Y
Water level before sampling below TOC: 17.30	
Appearance of sample:	Time: 2:10

☐ Bailer:	Type:	GPM:	☒ Pump: ES40	Type: Submersible	GPM: (1) 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☒ TPHd	☐ TPH	☒ BTEX	☐ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0351	Field point name: MW-3
Global ID: T0609700770	Well depth from TOC: 20'
Project location: 1952 Siesta Lane	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 10/6/05	Product level from TOC: ND
Time: 10:45	Water level from TOC: 16.99
Recorded by: R. Johnson	Screened interval: 5-20'
Purge time (duration):	Well elevation (TOC): 195.68

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 3.01	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: .5	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 1.5	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
1:21	6.90	.47	67.9	1 / .5	Low turb
1:23	6.91	.47	67.2	2 / 1.0	No sheen
1:25	6.93	.48	66.9	3 / 1.5	No odor
				/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: 4
Water level before sampling below TOC: 17.14	
Appearance of sample:	Time: 2:39

☐ Bailer:	Type:	GPM:	☒ Pump: ES40	Type: Submersible	GPM: (1) 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☒ TPHd	☐ TPH	☒ BTEX	☐ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0351	Field point name: MW-4
Global ID: T0609700770	Well depth from TOC: 20'
Project location: 1952 Siesta Lane	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 10/6/05	Product level from TOC: ND
Time: 10:45	Water level from TOC: 16.87
Recorded by: R. Johnson	Screened interval: 5-20'
Purge time (duration):	Well elevation (TOC): 195.53

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 3.13	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: .5	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 1.3	Well volumes removed: 2

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
1:10	6.68	.49	70.90	1 / .5	Low turb
1:12	6.67	.49	68.30	2 / 1.0	No sheen
	—	—	—	3 / 1.5	No odor
				/	

Notes: well dry @ 1.3 gal

Water level after purging below TOC:	80% of original water level below TOC: Y
Water level before sampling below TOC: 16.90	
Appearance of sample:	Time: 2:24

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: (1) 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☒ TPHd	☐ TPH	☒ BTEX	☐ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

Appendix B

Laboratory Analytical Report

OCT 1 9 2005

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0351; 1952 Siesta Lane Santa Rosa CA	Date Sampled:	10/06/05
		Date Received:	10/07/05
	Client Contact: Ronen Johnson	Date Reported:	10/14/05
	Client P.O.:	Date Completed:	10/14/05

WorkOrder: 0510144

October 14, 2005

Dear Ronen:

Enclosed are:

1). the results of 3 analyzed samples from your **#0351; 1952 Siesta Lane Santa Rosa CA project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0351; 1952 Siesta Lane Santa Rosa CA	Date Sampled: 10/06/05
		Date Received: 10/07/05
	Client Contact: Ronen Johnson	Date Extracted: 10/12/05
	Client P.O.:	Date Analyzed: 10/12/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0510144

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	---	---	0.55	0.83	ND	1.3	1	101
002A	MW-3	W	---	---	1.2	1.6	0.64	2.2	1	101
003A	MW-4	W	---	---	8.7	13	4.6	18	1	96
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0351; 1952 Siesta Lane Santa Rosa CA	Date Sampled: 10/06/05
		Date Received: 10/07/05
	Client Contact: Ronen Johnson	Date Extracted: 10/07/05
	Client P.O.:	Date Analyzed: 10/08/05

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0510144

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0510144-001B	MW-2	W	110,b,g	1	116
0510144-002B	MW-3	W	330,c,g	1	90
0510144-003B	MW-4	W	280,d,b,g	1	99

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0510144

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 18464** **Spiked Sample ID: 0510139-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	107	102	4.84	102	107	5.22	70 - 130	70 - 130
MTBE	ND	10	88.3	90.8	2.83	89.9	90.4	0.483	70 - 130	70 - 130
Benzene	ND	10	89.1	80.6	10.0	86.3	88	1.95	70 - 130	70 - 130
Toluene	ND	10	89.3	85.6	4.22	86	88.1	2.38	70 - 130	70 - 130
Ethylbenzene	ND	10	92.1	94.8	2.94	87.7	91.4	4.14	70 - 130	70 - 130
Xylenes	ND	30	94	95	1.06	89.3	94.3	5.44	70 - 130	70 - 130
%SS:	102	10	97	101	3.65	99	96	2.41	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18464 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510144-001A	10/06/05 2:10 PM	10/12/05	0/12/05 10:04 AM	0510144-002A	10/06/05 2:39 PM	10/12/05	10/12/05 4:53 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0510144

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 18466** **Spiked Sample ID: 0510145-007A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	111	108	2.28	108	106	2.29	70 - 130	70 - 130
MTBE	ND	10	91.2	92.2	1.15	92.3	92.5	0.249	70 - 130	70 - 130
Benzene	ND	10	91	91.7	0.736	89.6	88.7	0.951	70 - 130	70 - 130
Toluene	ND	10	91.8	91.5	0.264	90	89	1.11	70 - 130	70 - 130
Ethylbenzene	ND	10	95	94.6	0.429	94	92	2.13	70 - 130	70 - 130
Xylenes	ND	30	95.3	95	0.350	95	91	4.30	70 - 130	70 - 130
%SS:	106	10	96	96	0	97	97	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18466 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510144-003A	10/06/05 2:24 PM	10/12/05	10/12/05 5:24 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

M QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0510144

EPA Method: SW8015C **Extraction: SW3510C** **BatchID: 18463** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	87.2	86.3	0.944	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	99	100	1.30	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18463 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0510144-001b	10/06/05 2:10 PM	10/07/05	10/08/05 8:42 PM	0510144-002b	10/06/05 2:39 PM	10/07/05	0/08/05 10:58 PM
0510144-003b	10/06/05 2:24 PM	10/07/05	10/08/05 9:50 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

Edd Clark & Associates, Inc. 0510144
Environmental Consultants

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker: Yes ☒ No ☐ Initials RJ

Samplers Signature: R. Johnson

EC&A job # 0351

Global I.D. # T0609700770

Facility Name & Location: 1952 Siesta Lane, Santa Rosa, CA

Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	Analysis: TPH	Analysis: BTEX				Remarks
+ MW-2	10/6/05	2:10			W	3/2	x	x				
+ MW-3	↓	2:39			↓	3/2	x	x				
+ MW-4	↓	2:24			↓	3/2	x	x				

ICE/C ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB
PRESERVATION: VOAS ✓ | O&G | METALS | OTHER

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	10/7/05	1025	[signature]	[signature]	10/7/05	125	[signature]
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0510144 **ClientID: ECAR** **EDF: YES**

Report to:
Ronen Johnson
Edd Clark & Associates, Inc.
320 Professional Center Ste. 215
Rohnert Park, CA 94928

TEL: (707) 792-9500
FAX: (707) 792-9504
ProjectNo: #0351; 1952 Siesta Lane Santa Rosa C
PO:

Bill to:
Accounts Payable
Edd Clark & Associates, Inc.
320 Professional Center Ste.215
Rohnert Park, CA 94928

Requested TAT: 5 days

Date Received: 10/07/2005
Date Printed: 10/07/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0510144-001	MW-2	Water	10/6/05 2:10:00 PM	☐	A	A	B												
0510144-002	MW-3	Water	10/6/05 2:39:00 PM	☐	A		B												
0510144-003	MW-4	Water	10/6/05 2:24:00 PM	☐	A		B												

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3	TPH(D)_W	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.