WINZLER & KELLY
CONSULTING ENGINEERS

Ref: 03-235603-002

May 9, 2005

Mr. Ernest Thomas
Redwood Enterprises
6240 Montecito Boulevard
Santa Rosa, CA 95409

Re: Groundwater Monitoring Report of Domestic Wells, Mobil Montecito, 6598 Montecito Boulevard, Santa Rosa, California, NCRWQCB Case No. 1TSR030

Dear Mr. Thomas:

This report presents the results of Winzler & Kelly Consulting Engineers' (Winzler & Kelly's) groundwater monitoring and sampling activities for domestic wells DW-609 (609 Benicia Drive) and DW-689 (689 Benicia Drive), associated with the Mobil Montecito site investigation located at 6598 Montecito Boulevard, Santa Rosa, California (Figures 1 and 2).

GROUNDWATER MONITORING FIELD ACTIVITIES

A summary of the monitoring and sampling activities performed at the site on March 31, 2005, is provided below.

Personnel Present: Winzler & Kelly's Environmental Engineer, Pon Xayasaeng, performed the field work activities.

Purging: Domestic wells were purged by allowing the outside faucets nearest the wells to run until the pumps switched on.

Groundwater Sampling: On March 31, 2005, groundwater samples were collected from domestic wells DW-609 and DW-689.

Domestic wells were sampled from the outside tap nearest the well, after allowing the tap to run until the pump turned on. Groundwater samples were collected using appropriate laboratory-supplied, certified, clean sample containers.

Chemical Analysis: Analytical Sciences Laboratory (Analytical Sciences) of Petaluma, California (a California-certified laboratory) analyzed domestic well samples for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX), and oxygenated fuel additives by EPA Method 8260B.

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SAMPLING RESULTS

Analysis of the two off-site domestic well (DW-609 and DW-689) samples did not identify any constituents of concern exceeding the laboratory's reportable detection limits. Table 1 summarizes historical groundwater sampling results of off-site domestic wells.

The laboratory QA/QC included the use of method blanks to exclude false-positive analyses and the use of laboratory control samples to evaluate the percentage recovery of known analyte spikes. The recovery percentages for all of the sample analytes were within acceptable ranges. The complete laboratory reports, QA/QC data, and the chain-of-custody form are included in Appendix A.

Should you have any questions or comments regarding this project, please contact Kent O'Brien, Project Manager, at (707) 523-1010.

Sincerely,
WINZLER & KELLY

Pon Xayasaeng
Environmental Engineer

Kent O'Brien, RG, CEG
Senior Project Manager

PROFESSIONAL GEOLOGIST
KENT O'BRIEN
No. 2132
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Attachments

Figures:
- Figure 1 – Vicinity Map
- Figure 2 – Storm Drain System and Domestic Well Location Map

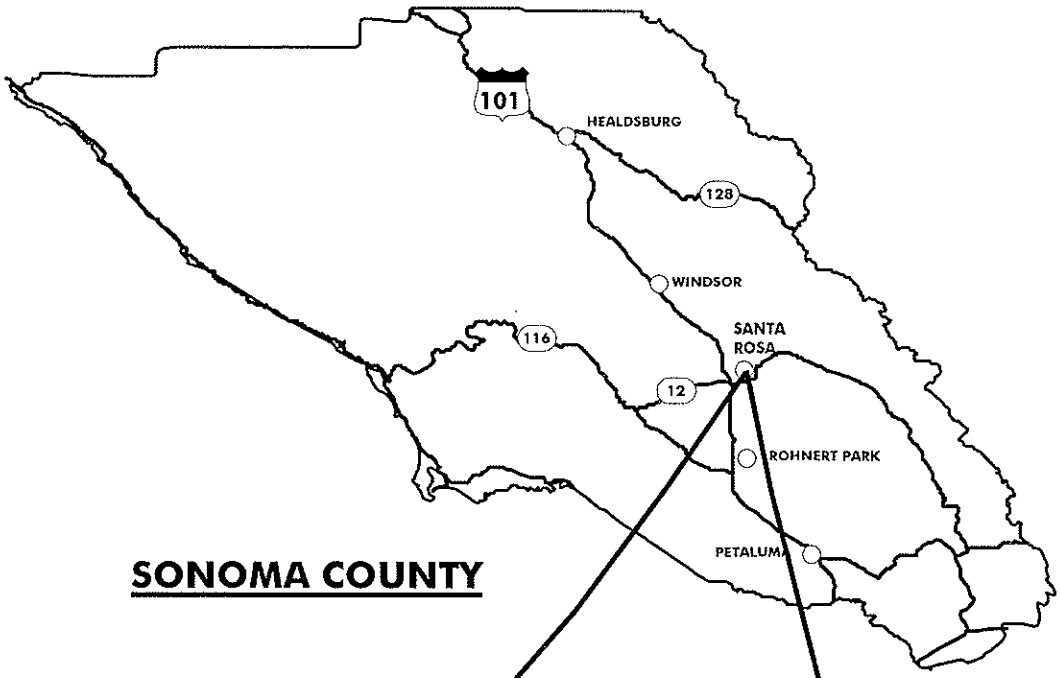
Table:
- Table 1 –Groundwater Analytical Summary of Off-Site Domestic Wells

Appendix:
- Appendix A –Analytical Laboratory Report

c: Ms. Jo Bentz, North Coast Regional Water Quality Control Board, 5550 Skylane Boulevard, Suite A, Santa Rosa, CA 95403

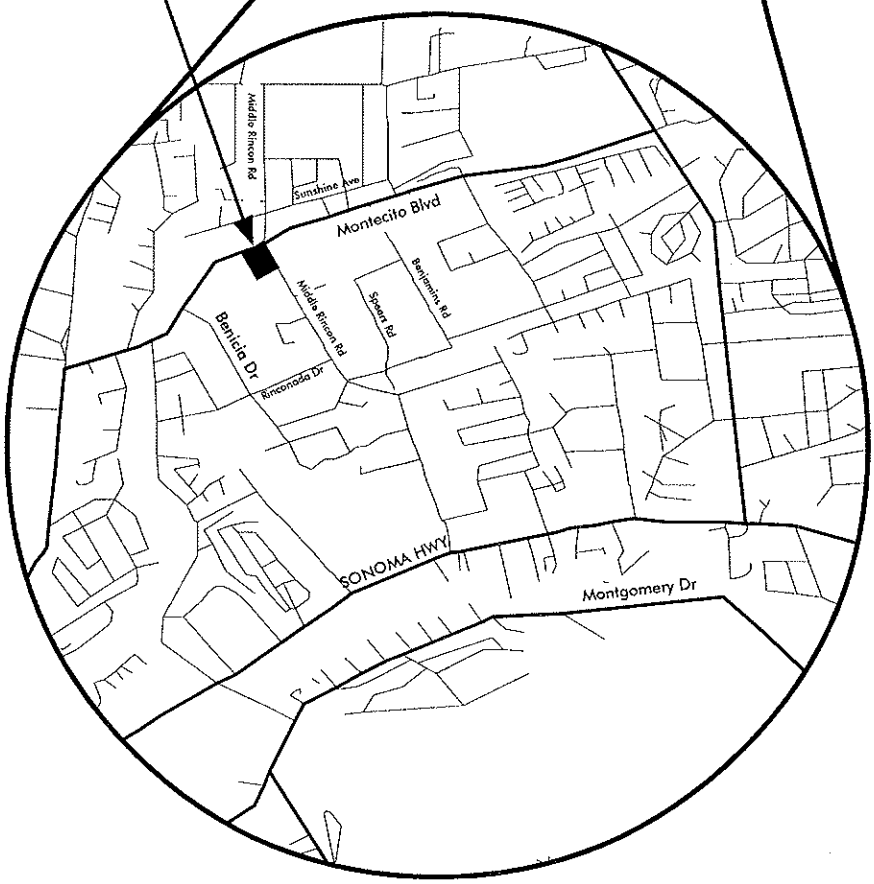
Mr. Scott Stegeman, 1430 High School Road, Sebastopol, CA 95472

Figures



SONOMA COUNTY

SITE LOCATION
6598 MONTECITO BLVD

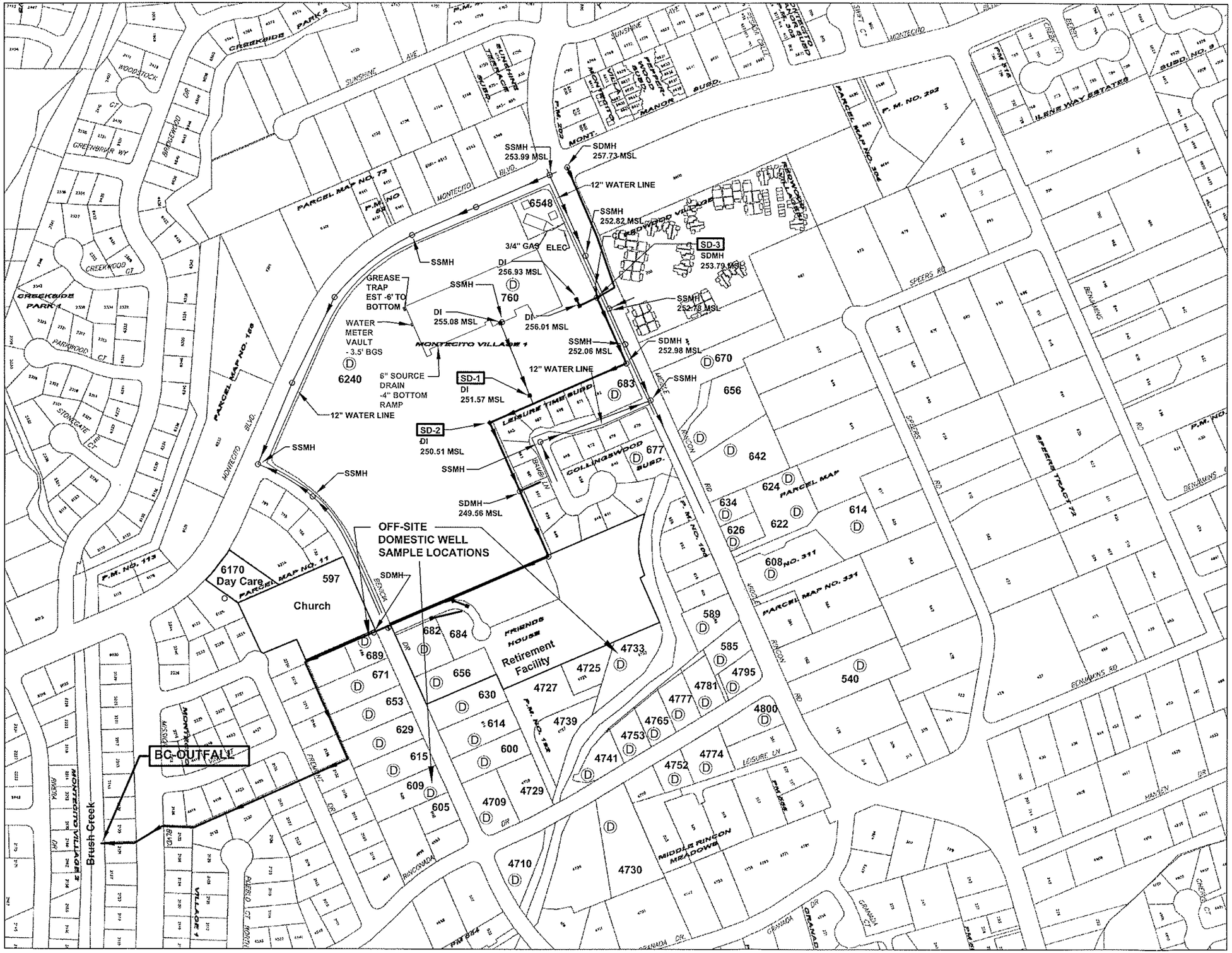


VICINITY MAP

MOBIL MONTECITO
6598 MONTECITO BLVD
SANTA ROSA, CA
FIGURE 1

WINZLER & KELLY
CONSULTING ENGINEERS

J:/03/235603/PAGEMAKER/Vicinity Map.PMD 04/11/05



J:\03\235603\CAD\SD&DW MAP2.dwg 4-11-05 02:24:54 PM PXayasaeng

SCALE: 1"=300'

LEGEND:

Ⓓ	DOMESTIC WELL
SSMH	SANITARY SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
DI	DROP INLET
CI	CURB INLET
SD-1	STORM DRAIN SAMPLING LOCATION
MSL	MEAN SEA LEVEL

NOTE: Storm Drain and Sanitary Sewer Drainpipe Invert Elevations were Surveyed by W&K on February 28, 2003, Based on Santa Rosa Disc B-223, Located at the Intersection of Montecito Blvd. and Benicia Drive.

STORM DRAIN SYSTEM AND DOMESTIC WELL LOCATION MAP

MOBIL MONTECITO
6598 MONTECITO BOULEVARD
SANTA ROSA, CALIFORNIA

FIGURE 2

WINZLER & KELLY
CONSULTING ENGINEERS

Table

Table 1. Groundwater Analytical Summary of Off-Site Domestic Wells

Mobile Montecito

6598 Montecito Boulevard, Santa Rosa, California

Sample ID	Address	Date Collected	TPH-D	TPH-G	B	T	E	X	TBA	MTBE	DIPE	ETBE	TAME	VOCs	1,2-DCA	Metals
			ug/L													mg/L
Domestic Wells																
DW-4733	4733 Rinconada Drive	4/11/2003	NA	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.5 - <5.0	<0.50	NA
		12/10/2003	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		8/11/2004	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
DW-4777	4777 Rinconada Drive	9/19/2001	<50	<50	<0.30	<0.30	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
DW-609	609 Benicia Drive (DW60DB)	1/17/2002	<50	<50	<0.30	<0.30	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
		4/11/2003	NA	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.5 - <5.0	<0.50	NA
		12/10/2003	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		8/11/2004	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		12/21/2004	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		3/31/2005	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
DW-622MR	622 Middle Rincon Road	8/23/2001	<50	<50	<0.30	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.3 - <5.0	<0.50	NA
DW656MR	656 Middle Rincon Road	8/1/2001	<50	<50	<0.30	<0.30	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA
DW-671	671 Benicia Drive	10/4/2001	<50	<50	<0.30	<0.30	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
DW-689	689 Benicia Drive	11/15/2001	<50	<50	<0.30	<0.30	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
		4/11/2003	NA	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.5 - <5.0	<0.50	NA
		12/10/2003	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		8/11/2004	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		12/21/2004	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
		3/31/2005	NA	<50	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA

Abbreviations:

NA = Not analyzed
TPH-G = Total petroleum hydrocarbons as gasoline
TPH-D = Total petroleum hydrocarbons as diesel
B = Benzene
T = Toluene
E = Ethyl benzene
X = Total xylenes
VOCs = Volatile organic compounds
1,2-DCA = 1,2-dichloroethane

TBA = Tert-butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
BDCM = Bromodichloromethane
BF = Bromoform
CF = Chloroform
DBCM = Dibromochloromethane

Analytical Methods

TPH-G = EPA Method 8015GRO
TPH-D = EPA Method 8015DRO
BTEX = EPA Method 8260B or 524.2
5 OXY = EPA Method 8260B or 524.2
1,2-DCA = EPA Method 8260B
Metals = EPA Method 6010
VOC = EPA Method 8260

Appendix A
Analytical Laboratory Report

Analytical Sciences

Report Date: April 8, 2005

Sonya Church
Winzler & Kelly Consulting Engineers
495 Tesconi Circle, Suite 9
Santa Rosa, CA 95401-4696

LABORATORY REPORT

Project Name: **Mobil Montecito** **03235603.001**

Lab Project Number: **5040102**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
29105	DW - 609	TPH/Gasoline	ND	50

Date Sampled: 03/31/05
Date Received: 03/31/05
Date Analyzed: 04/04/05
Method: EPA 5030/8015M
QC Batch #: 5434

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
29106	DW - 689	TPH/Gasoline	ND	50

Date Sampled: 03/31/05
Date Received: 03/31/05
Date Analyzed: 04/04/05
Method: EPA 5030/8015M
QC Batch #: 5434

Lab Project #: 5040102

CA Lab Accreditation #: 2303

Volatile Hydrocarbons by GC/MS in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29105	DW – 609	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		Oxygenated Gasoline Additives		
		tert-butyl alcohol (TBA)	ND	25
		methylt ert-butyl ether (MTBE)	ND	1.0
		di-isopropyl ether (DIPE)	ND	1.0
		ethyl tert-butyl ether (ETBE)	ND	1.0
		tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	22.3	112	70 – 130
toluene-d_8 (20)	20.0	100	70 – 130
4-bromofluorobenzene (20)	18.3	91.5	70 – 130

Date Sampled: 03/31/05	Date Analyzed: 04/01/05	QC Batch #: 5446
Date Received: 04/01/05	Method: EPA 8260B	

Lab Project #: 5040102

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
29106	**DW – 689**	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		Oxygenated Gasoline Additives		
		tert-butyl alcohol (TBA)	ND	25
		methylt ert-butyl ether (MTBE)	ND	1.0
		di-isopropyl ether (DIPE)	ND	1.0
		ethyl tert-butyl ether (ETBE)	ND	1.0
		tert-amylm ethyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.5	108	70 – 130
toluene-d_8 (20)	20.5	103	70 – 130
4-bromofluorobenzene (20)	17.8	89.0	70 – 130

Date Sampled: 03/31/05	Date Analyzed: 04/01/05	QC Batch #: 5446
Date Received: 04/01/05	Method: EPA 8260B	

Lab Project #: 5040102

CA Lab Accreditation #: 2303

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 5434 **Lab Project #:** 5040102

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
29058	CMS	TPH/Gas		NS	
	CMS	Benzene	10.4	10.0	104
	CMS	Toluene	10.2	10.0	102
	CMS	Ethyl Benzene	10.5	10.0	105
	CMS	Xylenes	30.5	30.0	102

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
29058	CMSD	TPH/Gas		NS		
	CMSD	Benzene	10.5	10.0	105	1.4
	CMSD	Toluene	10.4	10.0	104	1.6
	CMSD	Ethyl Benzene	10.4	10.0	104	1.5
	CMSD	Xylenes	30.5	30.0	102	0.1

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = NotS piked; OR = Over Calibration Range; NR = No Recovery

QC Batch #: 5446 Lab Project #: 5040102

Sample ID	Compound Name	Result (ug/L)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result(ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.3	107	70 – 130
toluene-d_8 (20)	19.5	97.5	70 – 130
4-bromofluorobenzene (20)	18.1	90.5	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
29105	CMS	1,1-dichloroethene	23.8	25.0	95.2
	CMS	benzene	26.1	25.0	104
	CMS	trichloroethene	23.4	25.0	94.0
	CMS	toluene	24.9	25.0	99.6
	CMS	chlorobenzene	26.0	25.0	104

Surrogates	Result(ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.2	106	70 – 130
toluene-d_8 (20)	19.9	99.5	70 – 130
4-bromofluorobenzene (20)	18.3	91.5	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
29105	CMSD	1,1-dichloroethene	22.8	25.0	91.2	4.3
	CMSD	benzene	25.8	25.0	103	1.2
	CMSD	trichloroethene	23.5	25.0	94.0	0.43
	CMSD	toluene	24.6	25.0	98.4	1.2
	CMSD	chlorobenzene	26.5	25.0	106	1.9

Surrogates	Result(ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.4	107	70 – 130
toluene-d_8 (20)	19.4	97.0	70 – 130
4-bromofluorobenzene (20)	18.0	90.0	70 – 130

MB = Method Blank; LCS = Laboratory Control Sample; CMS = ClientM atrix Spike; CMSD = ClientM atrix Spike Duplicate
NS = NotS piked; OR = Over Calibration Range; NR = No Recovery

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Analytical Sciences

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 5040102
WINZLER & KELLY PROJECT NAME: Mobil Martinez
WINZLER & KELLY PROJECT NUMBER: 03235603.001

GEOTRACKER EDF: ___ Y X N
GLOBAL ID: ___

COOLER TEMPERATURE: Blue Ice °C

COC PAGE 1 OF 1

CLIENT INFORMATION

COMPANY NAME: WINZLER & KELLY CONSULTING ENGINEERS
ADDRESS: 495 TESCONI CIRCLE, SUITE 9
SANTA ROSA, CA 95401-4696
CONTACT: Results -> Sonya ; Questions -> Ron
PHONE#: (707) 523-1010
FAX #: (707) 527-8679

TURNAROUND TIME (check one)

MOBILE LAB ___ 24 HOURS ___
SAME DAY ___ 72 HOURS ___
48 HOURS ___ NORMAL X
5 DAYS ___

ANALYSIS

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GASOLINE EPA 8015M/8260	TPH DIESEL / MOTOR OIL EPA 8015M	VOLATILE HYDROCARBONS EPA 8260B (FULL List)	BTEX & OXYGENATES + 10 OXYGENATES EPA 8260B	OXYGENATED FUEL ADDITIVES EPA 8260M	CHLORINATED SOLVENTS EPA 8010 / EPA 8260B	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 5520F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141/ 8082	CAM 17 METALS / 5 LUFT METALS	TOTAL LEAD			COMMENTS	LAB SAMPLE #
1	DW-609	3/3/05	13:47	W	4	Yes	X			X											29105
2	DW-689	↓	13:58	↓	4	↓	X			X											29106
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					

SIGNATURES

SAMPLED BY: Ron Yagasaki

RELINQUISHED BY: Ron Yagasaki — SIGNATURE
3/3/05 — DATE
14:08 — TIME

RECEIVED BY LABORATORY: [signature] — SIGNATURE
4/1/05 — DATE
11:40 am — TIME

110 Liberty Street
Petaluma, CA 94952
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