

**ExxonMobil
Environmental Services Company**

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Jennifer C. Sedlachek
Project Manager

RECEIVED

9:02 am, Jul 01, 2011

Alameda County
Environmental Health

ExxonMobil

June 24, 2011

Ms. Barbara Jakub, P.G.
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Exxon RAS #79374/990 San Pablo Avenue, Albany, California.

Dear Ms. Jakub:

Attached for your review and comment is a copy of the letter report entitled *Groundwater Monitoring Report, Second Quarter 2011*, dated June 24, 2011, for the above-referenced site. The report was prepared by Cardno ERI of Petaluma, California, and details assessment activities at the subject site.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,



Jennifer C. Sedlachek
Project Manager

Attachment: Cardno ERI's *Groundwater Monitoring Report, Second Quarter 2011*, dated June 24, 2011

cc: w/ attachment
Ms. Muriel T. Blank, Trustee, The Blank Family Trusts
Reverend Deborah Blank, Trustee, The Blank Family Trusts
Ms. Marcia Blank Kelly, The Blank Family Trusts

w/o attachment
Ms. Paula Sime, Cardno ERI



Shaping the Future

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June 23, 2011
Cardno ERI 273513.Q112

Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services
4096 Piedmont Avenue #194
Oakland, California 94611

SUBJECT Groundwater Monitoring Report, Second Quarter 2011
Former Exxon Service Station 79374
990 San Pablo Avenue, Albany, California

Alameda County RO#2974

INTRODUCTION

At the request of ExxonMobil Environmental Services (EMES), on behalf of Exxon Mobil Corporation, Cardno ERI performed second quarter 2011 groundwater monitoring and sampling activities at the subject site. Relevant plates, tables, and appendices are included at the end of this report. Currently, the site is occupied by a retail outlet for Benjamin Moore paints and painting products and associated paved asphalt driveway and parking area.

GROUNDWATER MONITORING AND SAMPLING SUMMARY

Gauging and sampling date:	04/07/11
Wells gauged and sampled:	MW1 through MW6
Presence of NAPL:	Not observed
Laboratory:	Calscience Environmental Laboratories, Inc. Garden Grove, California
Analyses performed:	EPA Method 8015B TPHd, TPHg, TPHmo EPA Method 8260B BTEX, MTBE, ETBE, TAME, TBA, DIPE, EDB, 1,2-DCA
Waste disposal:	55 gallons purge and decon water delivered to InStrat, Inc., of Rio Vista, California, on 04/25/11

June 23, 2011
Cardno ERI 273513.Q112 Former Exxon Service Station 79374, Albany, California

CONCLUSIONS

Groundwater monitoring wells MW1 through MW6 were monitored and sampled during second quarter 2011. Concentrations of TPHd, TPHg, and BTEX constituents were reported in wells MW1 and MW3 through MW6. Concentrations of MTBE were reported in well MW2. Concentrations of TBA were reported in well MW1. Concentrations of TPHmo, ETBE, DIPE, TAME, EDB, and 1,2-DCA were not reported in samples collected from wells MW1 through MW6.

The groundwater flow direction trends north-northeast across the site.

RECOMMENDATIONS

Cardno ERI recommends quarterly monitoring and sampling of wells MW1 through MW6 for one year (through third quarter 2011) to evaluate groundwater concentrations and flow direction.

LIMITATIONS

For any documents cited that were not generated by Cardno ERI, the data taken from those documents is used "as is" and is assumed to be accurate. Cardno ERI does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document was prepared in accordance with generally accepted standards of environmental, geological, and engineering practices in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please call Ms. Paula Sime, Cardno ERI's project manager for this site, at (707) 766-2000 with any questions regarding this report.

Sincerely,

Jennifer Lacy
SCANNED IMAGE

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Heidi L. Dieffenbach-Carle
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June 23, 2011
Cardno ERI 273513.Q112 Former Exxon Service Station 79374, Albany, California

Enclosures:

Acronym List

Plate 1	Site Vicinity Map
Plate 2	Select Analytical Results
Plate 3	Groundwater Elevation Map
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Table 1B	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2	Well Construction Details
Appendix A	Groundwater Sampling Protocol
Appendix B	Field Notes
Appendix C	Laboratory Analytical Report and Chain-of-Custody Record
Appendix D	Waste Disposal Documentation

cc: Mrs. Barbara Jakub, Alameda County Health Care Services Agency, Environmental Health Services,
1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502-6577

Ms. Muriel T. Blank, Trustee, The Blank Family Trusts, 1164 Solano Avenue, #406, Albany, California
94706

Reverend Deborah Blank, Trustee, The Blank Family Trust, 1563 Solano Avenue, #344, Berkeley,
California 94707

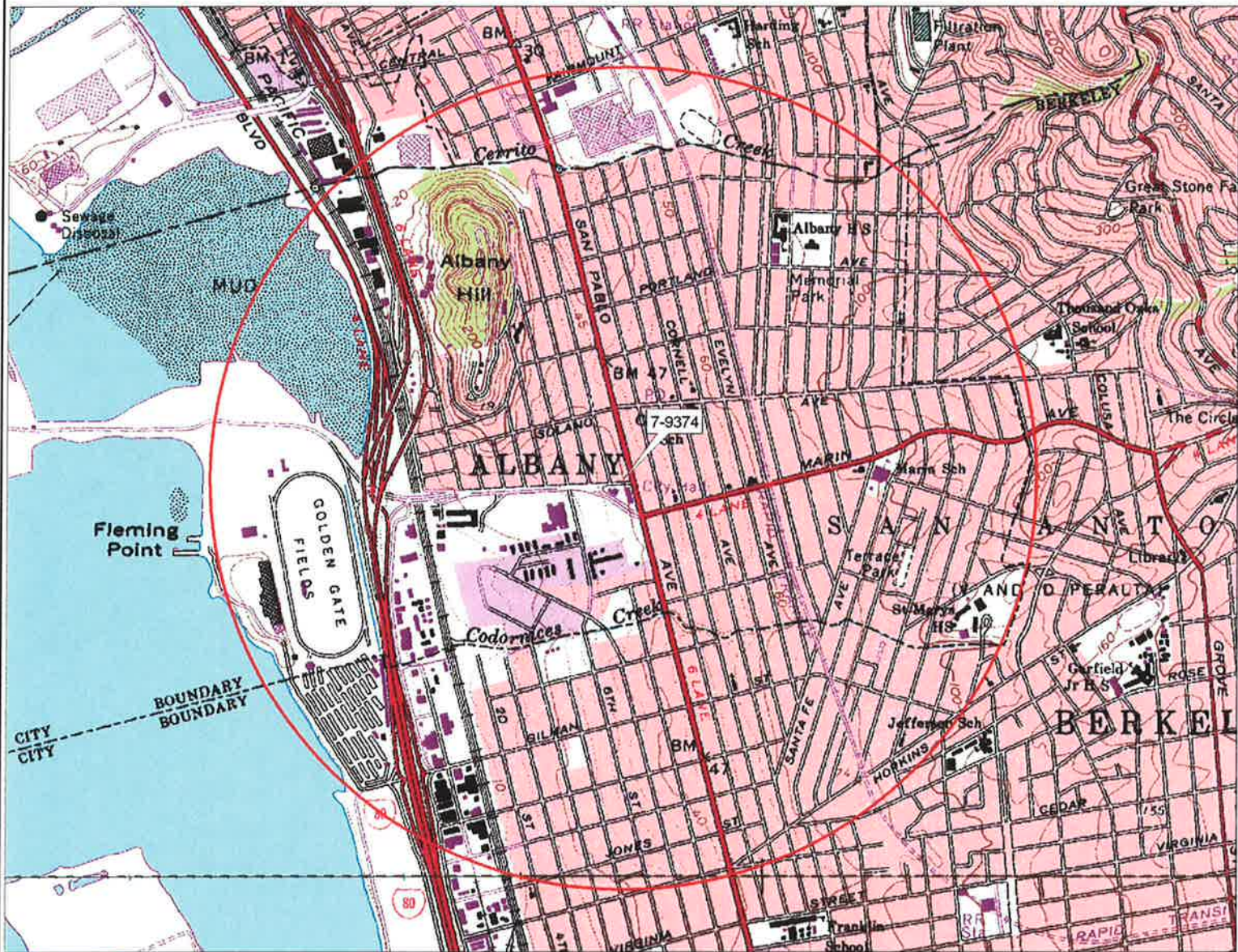
Ms. Marcia Blank, Trustee, The Blank Family Trust, 641 SW Morningside Road, Topeka, Kansas 66606

June 23, 2011

Cardno ERI 273513.Q112 Former Exxon Service Station 79374, Albany, California

ACRONYM LIST

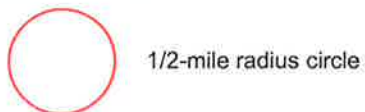
µg/L	Micrograms per liter	NEPA	National Environmental Policy Act
µs	Microsiemens	NGVD	National Geodetic Vertical Datum
1,2-DCA	1,2-dichloroethane	NPDES	National Pollutant Discharge Elimination System
acfm	Actual cubic feet per minute	O&M	Operations and Maintenance
AS	Air sparge	ORP	Oxidation-reduction potential
bgs	Below ground surface	OSHA	Occupational Safety and Health Administration
BTEX	Benzene, toluene, ethylbenzene, and total xylenes	OVA	Organic vapor analyzer
CEQA	California Environmental Quality Act	P&ID	Process & Instrumentation Diagram
cfm	Cubic feet per minute	PAH	Polycyclic aromatic hydrocarbon
COC	Chain of Custody	PCB	Polychlorinated biphenyl
CPT	Cone Penetration (Penetrometer) Test	PCE	Tetrachloroethene or perchloroethylene
DIPE	Di-isopropyl ether	PID	Photo-ionization detector
DO	Dissolved oxygen	PLC	Programmable logic control
DOT	Department of Transportation	POTW	Publicly owned treatment works
DPE	Dual-phase extraction	ppmv	Parts per million by volume
DTW	Depth to water	PQL	Practical quantitation limit
EDB	1,2-dibromoethane	psi	Pounds per square inch
EPA	Environmental Protection Agency	PVC	Polyvinyl chloride
ESL	Environmental screening level	QA/QC	Quality assurance/quality control
ETBE	Ethyl tertiary butyl ether	RBSL	Risk-based screening levels
FID	Flame-ionization detector	RCRA	Resource Conservation and Recovery Act
fpm	Feet per minute	RL	Reporting limit
GAC	Granular activated carbon	scfm	Standard cubic feet per minute
gpd	Gallons per day	SSTL	Site-specific target level
gpm	Gallons per minute	STLC	Soluble threshold limit concentration
GWPTS	Groundwater pump and treat system	SVE	Soil vapor extraction
HVOC	Halogenated volatile organic compound	SVOC	Semivolatile organic compound
J	Estimated value between MDL and PQL (RL)	TAME	Tertiary amyl methyl ether
LEL	Lower explosive limit	TBA	Tertiary butyl alcohol
LPC	Liquid-phase carbon	TCE	Trichloroethene
LRP	Liquid-ring pump	TOC	Top of well casing elevation; datum is msl
LUFT	Leaking underground fuel tank	TOG	Total oil and grease
LUST	Leaking underground storage tank	TPHd	Total petroleum hydrocarbons as diesel
MCL	Maximum contaminant level	TPHg	Total petroleum hydrocarbons as gasoline
MDL	Method detection limit	TPHm	Total petroleum hydrocarbons as motor oil
mg/kg	Milligrams per kilogram	TPHs	Total petroleum hydrocarbons as stoddard solvent
mg/L	Milligrams per liter	TRPH	Total recoverable petroleum hydrocarbons
mg/m ³	Milligrams per cubic meter	UCL	Upper confidence level
MPE	Multi-phase extraction	USCS	Unified Soil Classification System
MRL	Method reporting limit	USGS	United States Geologic Survey
msl	Mean sea level	UST	Underground storage tank
MTBE	Methyl tertiary butyl ether	VCP	Voluntary Cleanup Program
MTCA	Model Toxics Control Act	VOC	Volatile organic compound
NAI	Natural attenuation indicators	VPC	Vapor-phase carbon
NAPL	Non-aqueous phase liquid		



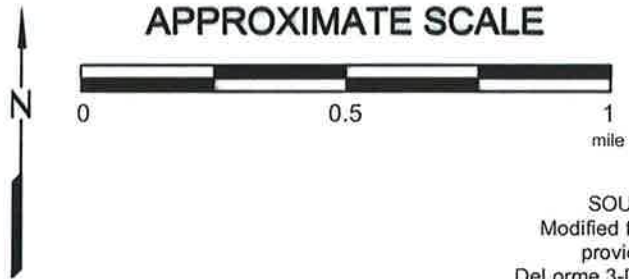
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 www.delorme.com

FN 2735 TOPO

EXPLANATION



APPROXIMATE SCALE



SOURCE:
 Modified from a map
 provided by
 DeLorme 3-D TopoQuads



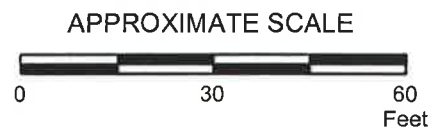
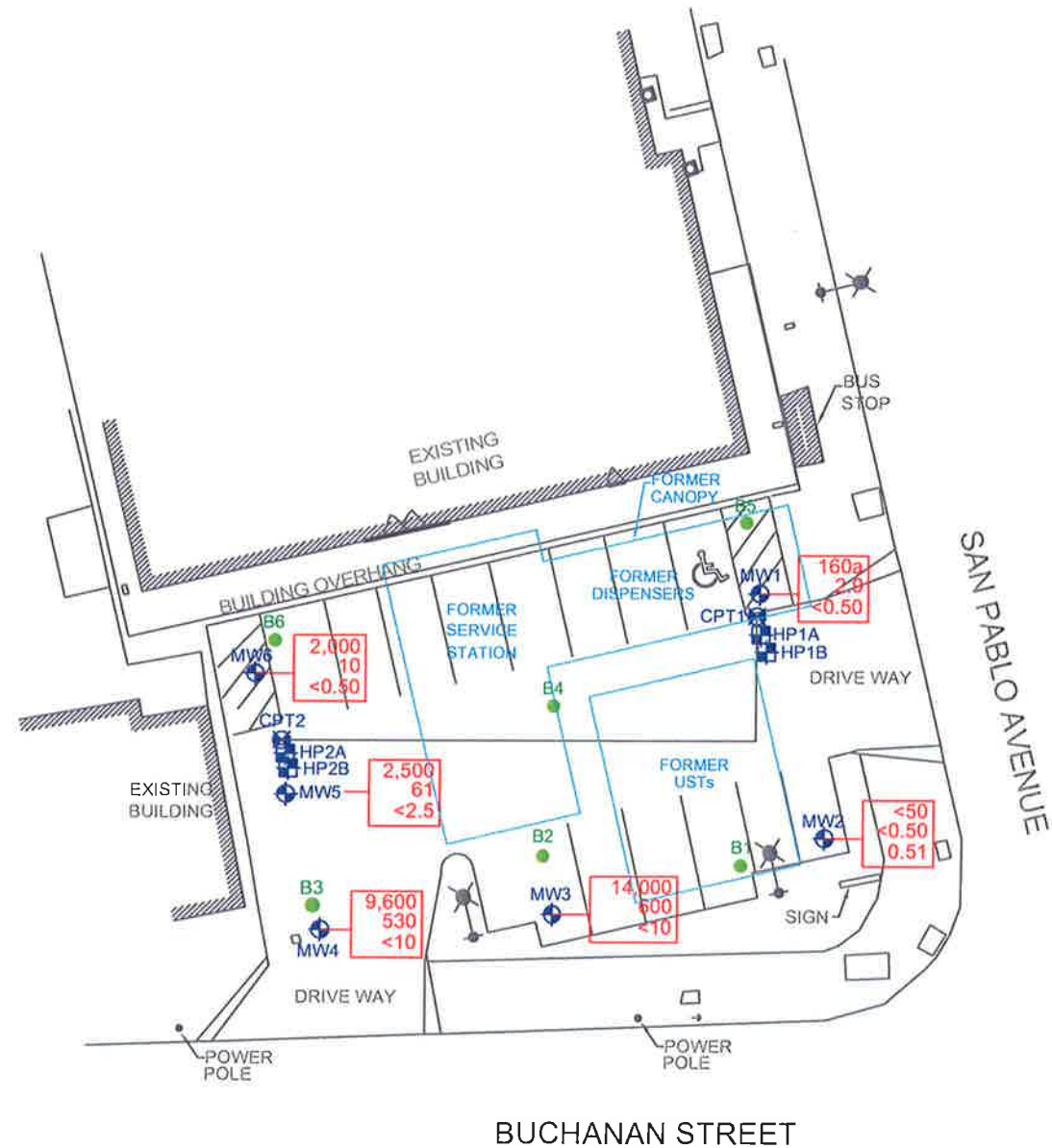
SITE VICINITY MAP
 FORMER EXXON SERVICE STATION 79374
 990 San Pablo Avenue
 Albany, California

PROJECT NO.
 2735
PLATE
 1

Analyte Concentrations in ug/L
 Sampled April 7, 2011

Total Petroleum Hydrocarbons
 as gasoline
 Benzene
 Methyl Tertiary Butyl Ether

- < Less Than the Stated Laboratory Reporting Limit
- ug/L Micrograms per Liter
- a Sample chromatographic pattern does not match that of the specified standard.



FN 2735 11 2QTR QM

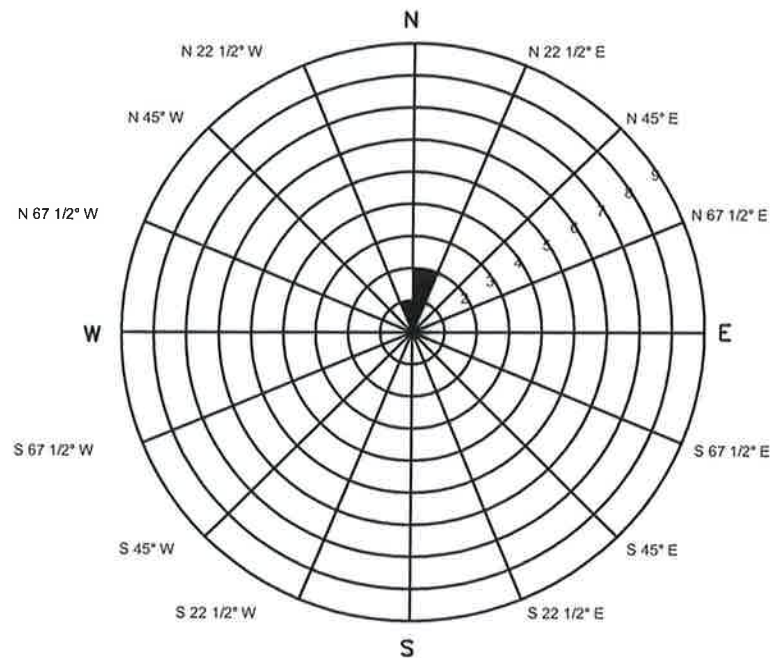


SELECT ANALYTICAL RESULTS
 April 7, 2011
 FORMER EXXON SERVICE STATION 79374
 990 San Pablo Avenue
 Albany, California

EXPLANATION

- MW6 Groundwater Monitoring Well
- B6 Soil Boring
- HP2B Hydropunch Boring
- CPT2 Cone Penetration Test Boring

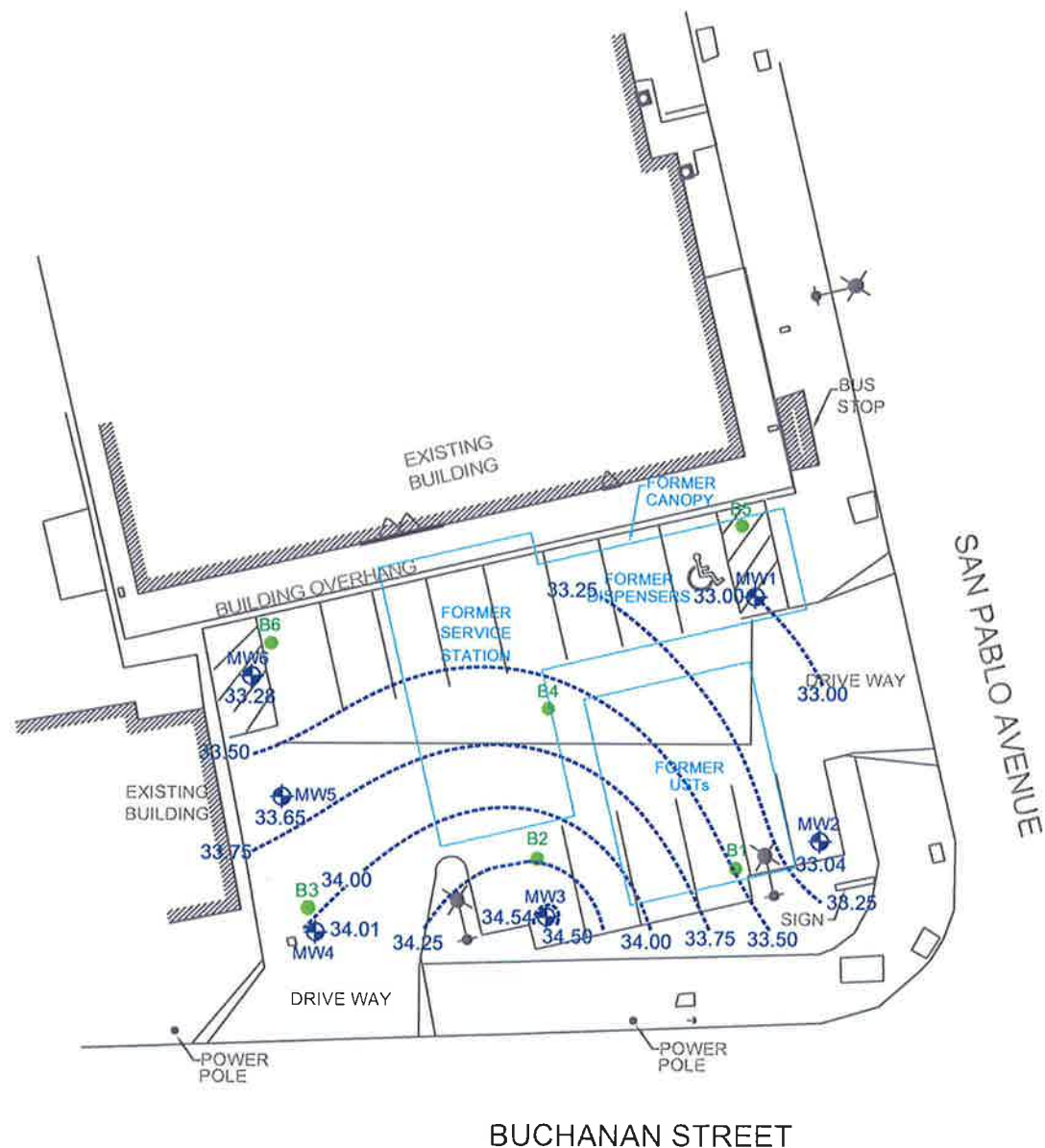
PROJECT NO.
 2735
 PLATE
 2



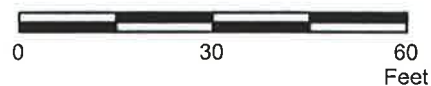
Rose diagram developed by evaluating the groundwater gradient direction from the quarterly monitoring data. Each circle on the rose diagram represents the number of monitoring events that the gradient plotted in that 22 1/2 degree sector.

2 Data Point Shown
Shown for 04/07/11

GROUNDWATER FLOW DIRECTION
ROSE DIAGRAM



APPROXIMATE SCALE



FN 2735 11 2QTR QM



GROUNDWATER ELEVATION MAP
April 7, 2011
FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

EXPLANATION

- MW6 Groundwater Monitoring Well
- 33.28 Groundwater elevation in feet; datum is mean sea level
- B6 Soil Boring

34.50-----Line of Equal Groundwater Elevation; datum is mean sea level

PROJECT NO.
2735
PLATE
3

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Monitoring Well Samples															
MW1	11/04/10	---	Well installed.												
MW1	12/01/10	---	41.45	Well surveyed.											
MW1	12/16/10	---	41.45	9.18	32.27	No	---	<250	71a	54	<0.50	1.4	0.65	0.58	1.6
MW1	01/31/11	---	41.45	8.78	32.67	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	04/07/11	---	41.45	8.45	33.00	No	---	<250	65a	160a	<0.50	2.9	0.92	<0.50	1.7
MW2	11/04/10	---	Well installed.												
MW2	12/01/10	---	41.25	Well surveyed.											
MW2	12/16/10	---	41.25	8.11	33.14	No	---	<250	110a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/31/11	---	41.25	9.29	31.96	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	04/07/11	---	41.25	8.21	33.04	No	---	<250	<50	<50	0.51	<0.50	<0.50	<0.50	<0.50
MW3	11/08/10	---	Well installed.												
MW3	12/01/10	---	40.42	Well surveyed.											
MW3	12/16/10	---	40.42	8.18	32.24	No	---	<250	2,900a	19,000	<12	350	130	940	290
MW3	01/31/11	---	40.42	7.64	32.78	No	---	390	2,800a	17,000a	<12	540	140	700	270
MW3	04/07/11	---	40.42	5.88	34.54	No	---	<250	2,700a	14,000	<10	600	150	780	230
MW4	11/05/10	---	Well installed.												
MW4	12/01/10	---	39.30	Well surveyed.											
MW4	12/16/10	---	39.30	6.10	33.20	No	---	<250	2,000a	9,900	<5.0	440	40	170	380
MW4	01/31/11	---	39.30	6.84	32.46	No	---	260	3,900a	13,000	<10	500	59	320	740
MW4	04/07/11	---	39.30	5.29	34.01	No	---	<250	1,900a	9,600	<10	530	59	250	340
MW5	11/11/10	---	Well installed.												
MW5	12/01/10	---	40.38	Well surveyed.											
MW5	12/16/10	---	40.38	7.69	32.69	No	---	<250	1,100a	6,200	<2.5	150	96	270	980
MW5	01/31/11	---	40.38	8.00	32.38	No	---	270	4,600a	15,000	<10	520	310	1,100	2,500
MW5	04/07/11	---	40.38	6.73	33.65	No	---	<250	610a	2,500	<2.5	61	32	180	390
MW6	11/03/10	---	Well installed.												
MW6	12/01/10	---	41.06	Well surveyed.											
MW6	12/16/10	---	41.06	8.55	32.51	No	---	<250	110a	1,700	<0.50	2.8	1.2	61	46
MW6	01/31/11	---	41.06	8.52	32.54	No	---	<250	800a	2,000a	<1.0	6.0	<1.0	30	24
MW6	04/07/11	---	41.06	7.78	33.28	No	---	<250	660a	2,000	<0.50	10	1.0	20	19

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	O&G (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Grab Groundwater Samples															
B-1W	01/06/08	---	---	---	---	---	26r,s	<5,000	99,000o,r	76,000m,p,r	<50	<50	93	3,100	9,600
B-2W	01/06/08	---	---	---	---	---	---	310s	23,000o,r,s	77,000 l,r,s	<50	1,500	300	2,000	6,800
B-3W	01/06/08	---	---	---	---	---	---	<250s	2,000o,s	6,200 l,s	<10	170	32	740	250
B-4W	01/06/08	---	---	---	---	---	---	<250s	3,100o,s	7,700 l,s	<10	360	<10	240	20
B-5W	01/06/08	---	---	---	---	---	---	<250s	120o,s	120q,s	<0.5	<0.5	<0.5	<0.5	<0.5
B-6W	01/06/08	---	---	---	---	---	---	<250s	830o,s	1,700 l,s	<2.5	5.2	<2.5	100	8.6
DR-W	01/06/08	---	---	---	---	---	---	<250	96o	730m,p	<0.5	<0.5	<0.5	6.9	14
W-27.5-HP1A	10/28/10	27.5	---	---	---	---	---	260	330a	63a	<0.50	<0.50	<0.50	<0.50	<0.50
W-36-HP1A	10/28/10	36	---	---	---	---	---	<250	220a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-46.5-HP1A	10/28/10	46.5	---	---	---	---	---	<420	<83	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-59-HP1B	10/27/10	59	---	---	---	---	---	<250	130	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-27.5-HP2A	10/29/10	27.5	---	---	---	---	---	<250	100a	340	<0.50	1.7	2.1	20	46
W-52-HP2A	10/29/10	52	---	---	---	---	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-60.5-HP2B	10/27/10	60.5	---	---	---	---	---	<250	62	<50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Notes:	
TOC	= Top of well casing elevation; datum is mean sea level.
DTW	= Depth to water.
GW Elev.	= Groundwater elevation; datum is mean sea level. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.76)].
NAPL	= Non-aqueous phase liquid.
O&G	= Oil and grease with silica gel clean-up analyzed using Standard Method 5520B/F.
TPHmo	= Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015 (modified).
TPHd	= Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	= Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	= Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	= Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	= 1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	= 1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	= Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	= Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	= Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	= Di-isopropyl ether analyzed using EPA Method 8260B.
Add'l VOCs	= Additional volatile organic carbons analyzed using EPA Method 8260B.
Add'l SVOCs	= Additional semi-volatile organic carbons analyzed using EPA Method 8270C.
µg/L	= Micrograms per liter.
ND	= Not detected at or above laboratory reporting limits.
---	= Not measured/Not sampled/Not analyzed.
<	= Less than the stated laboratory reporting limit.
a	= Sample chromatographic pattern does not match that of the specified standard.
b	= n-butylbenzene.
c	= sec-butylbenzene.
d	= Isopropylbenzene.
e	= n-propylbenzene.
f	= 1,2,4-trimethylbenzene.
g	= 1,3,5-trimethylbenzene.
h	= Naphthalene.
i	= 1-butanone.
j	= 1,2-dibromo-3-chloropropane.
k	= 2-methylnaphthalene.
l	= Unmodified or weakly modified gasoline is significant.
m	= Heavier gasoline range compounds are significant.
n	= Diesel range compounds are significant; no recognizable pattern.
o	= Gasoline range compounds are significant.

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Notes (Cont.):

- p = No recognizable pattern.
- q = Strongly aged gasoline or diesel compounds are significant.
- r = Lighter than water immiscible sheen/product is present.
- s = Liquid sample that contains greater than approximately 1 volume % sediment.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Add'l VOCs (µg/L)	Add'l SVOCs (µg/L)
Monitoring Well Samples										
MW1	12/16/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW1	01/31/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW1	04/07/11	---	<0.50	<0.50	<0.50	10	<0.50	<0.50	---	---
MW2	12/16/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW2	01/31/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW2	04/07/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW3	12/16/10	---	<12	<12	<12	<120	<12	<12	---	---
MW3	01/31/11	---	<12	<12	<12	<120	<12	<12	---	---
MW3	04/07/11	---	<10	<10	<10	<100	<10	<10	---	---
MW4	12/16/10	---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW4	01/31/11	---	<10	<10	<10	<100	<10	<10	---	---
MW4	04/07/11	---	<10	<10	<10	<100	<10	<10	---	---
MW5	12/16/10	---	<2.5	<2.5	<2.5	<25	<2.5	<2.5	---	---
MW5	01/31/11	---	<10	<10	<10	<100	<10	<10	---	---
MW5	04/07/11	---	<2.5	<2.5	<2.5	<25	<2.5	<2.5	---	---
MW6	12/16/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	01/31/11	---	<1.0	<1.0	<1.0	<10	<1.0	<1.0	---	---
MW6	04/07/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
Grab Groundwater Samples										
B-1W	01/06/08	---	<50	<50	<50	<200	<50	<50	210b, 68c, 370d, 1,100e, 3,800f, 1,300g, 1,500h	4,000h, 3,900k
B-2W	01/06/08	---	<50	<50	<50	<200	<50	<50	110b, 140e, 440f, 2,400g, 730h, 610i, 32j	---
B-3W	01/06/08	---	<10	<10	<10	<40	<10	<10	25b, 11c, 74d, 190e, 290f, 49g, 55i	---
B-4W	01/06/08	---	<10	<10	<10	<40	<10	<10	46b, 19c, 48d, 160e, 16f, 100h	---
B-5W	01/06/08	---	ND	<0.5	<0.5	<2.0	<0.5	<0.5	2.6b, 0.83e, 4.8f, 1.2g, 6.5h	---
B-6W	01/06/08	---	<2.5	<2.5	<2.5	<10	<2.5	<2.5	14b, 5.6c, 17d, 60e, 32f, 5.8g, 38h, 10i	---
DR-W	01/06/08	---	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	6.9b, 2.4c, 2.5d, 11e, 17f, 5.5g, 7.0h	---
W-27.5-HP1	10/28/10	27.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-36-HP1A	10/28/10	36	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-46.5-HP1	10/28/10	46.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Add'l VOCs (µg/L)	Add'l SVOCs (µg/L)
W-59-HP1B	10/27/10	59	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-27.5-HP2	10/29/10	27.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-52-HP2A	10/29/10	52	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-60.5-HP2	10/27/10	60.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 79374
 990 San Pablo Avenue
 Albany, California

Notes:	
TOC	= Top of well casing elevation; datum is mean sea level.
DTW	= Depth to water.
GW Elev.	= Groundwater elevation; datum is mean sea level. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.76)].
NAPL	= Non-aqueous phase liquid.
O&G	= Oil and grease with silica gel clean-up analyzed using Standard Method 5520B/F.
TPHmo	= Total petroleum hydrocarbons as motor oil analyzed using EPA Method 8015 (modified).
TPHd	= Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015 (modified).
TPHg	= Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015 (modified).
MTBE	= Methyl tertiary butyl ether analyzed using EPA Method 8260B.
BTEX	= Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
EDB	= 1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	= 1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	= Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	= Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	= Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	= Di-isopropyl ether analyzed using EPA Method 8260B.
Add'l VOCs	= Additional volatile organic carbons analyzed using EPA Method 8260B.
Add'l SVOCs	= Additional semi-volatile organic carbons analyzed using EPA Method 8270C.
µg/L	= Micrograms per liter.
ND	= Not detected at or above laboratory reporting limits.
---	= Not measured/Not sampled/Not analyzed.
<	= Less than the stated laboratory reporting limit.
a	= Sample chromatographic pattern does not match that of the specified standard.
b	= n-butylbenzene.
c	= sec-butylbenzene.
d	= Isopropylbenzene.
e	= n-propylbenzene.
f	= 1,2,4-trimethylbenzene.
g	= 1,3,5-trimethylbenzene.
h	= Naphthalene.
i	= 1-butanone.
j	= 1,2-dibromo-3-chloropropane.
k	= 2-methylnaphthalene.
l	= Unmodified or weakly modified gasoline is significant.
m	= Heavier gasoline range compounds are significant.
n	= Diesel range compounds are significant; no recognizable pattern.
o	= Gasoline range compounds are significant.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Notes (Cont.):

- p = No recognizable pattern.
- q = Strongly aged gasoline or diesel compounds are significant.
- r = Lighter than water immiscible sheen/product is present.
- s = Liquid sample that contains greater than approximately 1 volume % sediment.

TABLE 2
WELL CONSTRUCTION DETAILS
Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Well Installation Date	TOC Elevation (feet)	Borehole Diameter (inches)	Total Depth of Boring (feet bgs)	Well Depth (feet bgs)	Casing Diameter (inches)	Well Casing Material	Screened Interval (feet bgs)	Slot Size (inches)	Filter Pack Interval (feet bgs)	Filter Pack Material
MW1	11/04/10	41.45	8	17	17	2	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW2	11/04/10	41.25	8	17	17	4	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW3	11/08/10	40.42	8	17	17	4	Schedule 40 PVC	11-16	0.020	9-16	#3 Sand
MW4	11/05/10	39.30	8	17	13	2	Schedule 40 PVC	8-13	0.020	6-13	#3 Sand
MW5	11/05/10	40.38	8	17	14	2	Schedule 40 PVC	9-14	0.020	7-14	#3 Sand
MW6	11/03/10	41.06	10	20	20	2	Schedule 40 PVC	15-20	0.020	13-20	#3 Sand

Notes:

- TOC = Top of well casing elevation; datum is mean sea level.
- PVC = Polyvinyl chloride.
- feet bgs = Feet below ground surface.

APPENDIX A
GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate-phase product level, if present, in each well that contained water and/or separate-phase product are measured with a ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. If appropriate, free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until a minimum of three well casing volumes is purged and stabilization of the temperature, pH, and conductivity is obtained. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples." The quantity of water purged from each well is calculated as follows:

1 well casing volume = $\pi r^2 h (7.48)$ where:

r	=	radius of the well casing in feet
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
π	=	ratio of the circumference of a circle to its diameter

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

The wells are purged using a submersible pump. Prior to use at the site and between wells the pump is cleaned.

Five gallons of water are placed in three 15-gallon tubs. Liquinox detergent is added to the first tub of water. The pump and tubing are submerged in the first tub and the water is pumped through the pump. The process is repeated in the second and third tub.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples." Water samples are collected with a new, disposable Teflon® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter [ml] glass vials, 1,000-ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the Chain-of-Custody record.

Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain-of-Custody record, to a California state-certified laboratory.

Water generated during purging and cleaning is contained and transported off site for treatment and disposal.

APPENDIX B
FIELD NOTES

Daily Field Report

Cardno ERI



Project ID #: 79374

Cardno ERI Job # 022735C

Subject: GW SAMPLING

Date: 4/7/2011

Equipment Used: SOLINST/HYDAC/PUMPS/BATTS'S/SAMPLING EQUIPMENT/ETC.

Sheet: 1

Name(s): PROWSE, JAKE

Time Arrived On Site: 8:45

Time Departed Site: 13:15

08:45 -ARRIVED ON SITE
-INFORMED STATION OF WORK TO BE DONE
-SET UP EXCLUSION ZONE AND CHOCKED THE WHEELS ON VEHICLE
-REVIEWED APPLICABLE JSA'S
-PERFORMED SPSA FOR: PROPER CONE USE
-STARTED PAPERWORK FOR SITE AND LABELS
-SET UP DECON/WORK AREA AND DECON'D EQUIPMENT
08:45 -HELD H&S MEETING/REVIEWED HOSPITAL ROUTE /FINISHED AT 09:00
09:00 -OPENED WELLS AND ALLOWED WELLS TO CHARGE
09:00 -STARTED MEASURING /FINISHED AT 09:15
09:15 -STARTED PURGING /FINISHED AT 11:00
11:00 -STARTED SAMPLING /FINISHED AT 13:00
-DECON'D EQUIPMENT/CLEANED UP DECON STATION/LOADED TRUCK
-BROKE DOWN EXCLUSION ZONE/LOADED TRUCK
13:15 -CARDNO ERI OFF SITE
14:00 -STARTED PURGE WATER TREATMENT (TRAILER) /FINISHED AT 14:15

*M/P/S 6 WELLS

*M/S 0 WELLS

M/S LOW FLOW 0 WELLS

*MO 0 WELLS

*O/P 0 WELLS

*POTABLE 0 WELLS

TOTAL PURGED GALLONS: 35

DECON WATER GALLONS: 20

*0 T/C SET UPS

DAILY FIELD REPORT



PROJECT: 79374 JOB # + ACTIVITY: 2735
SUBJECT: _____ DATE: 4-7-11
EQUIPMENT USED: _____ SHEET: _____ OF _____
NAME: Jake Prouse PROJECT MNGR: _____

Onsite 845 Sunny

Safety Meeting

Open Wells

DTW Wells

Purged & Sampled MW 1, 2, 3, 4, 5, 6

Decon 20 gal

Purge 35 gal

Total 55 gal

* Wells purge in correct order, but sample order differed due to recharge times

Offsite 1315

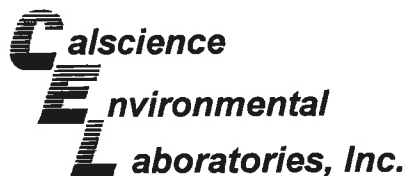
Depth to Water Data		QRT	2nd	YEAR	2011	
ERI #	2735					
Site #	79374	Address:	990 San Pablo Ave, Albany, CA			
PM:	Paula Sime					
Date:	4/7/11					
Tech:	JP			Recharge formula:		
DTW Time	9:10			Step 1 ▶	Calc 80% in feet ▶	
Start:	9:10			Step 2 ▶	Calc PostDTW (ft) ▶	
Finish:	9:25			Take ratio of result from Step 2 a		
						Rechrg
WELL ID	TD	PreDTW	CASE D	CASE V	PostDTW	80%
MW1	16.61	8.45	2	1.33	8.03	105.15
MW2	16.89	8.21	4	5.66	9.36	86.75
MW3	15.20	5.88	4	6.08	11.75	37.02
MW4	13.10	5.29	2	1.27	6.07	90.01
MW5	13.40	6.73	2	1.09	7.88	82.76
MW6	19.26	7.78	2	1.87	8.56	93.21

GROUNDWATER MONITORING - FIELD LOG					
ERI #	2735		QRT	2nd	2011
Client:	Merced County		DATE:	4/7/11	
Site ID:	79374		TECH	JP	
ADDRESS:			PM:	Paula Sime	
990 San Pablo Ave, Albany, CA			Total Purge Volume		
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
BB					
COMMENTS:					
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
MW1	9:25	2	°C	uS	
	9:27	2	15.30	789.00	6.72
	9:28	4	15.60	772.00	6.73
		6			
TOTAL PURGE	4				
COMMENTS:					
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
MW3	9:40	7	°C	uS	
	9:45	7	9.60	533.00	6.86
		14			
		21			
TOTAL PURGE	8				
COMMENTS:					
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
MW2	9:56	6	°C	uS	
	10:00	6	12.60	553.00	6.98
		12			
		18			
TOTAL PURGE	8.5				
COMMENTS:					
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
MW6	10:30	2	°C	uS	
	10:32	2	15.30	421.00	7.06
	10:34	4	15.20	406.00	7.03
	10:35	6	15.30	430.00	7.04

GROUNDWATER MONITORING - FIELD LOG					
ERI #	2735		QRT	2nd	2011
Client:	Merced County		DATE:	4/7/11	
Site ID:	79374		TECH	JP	
ADDRESS:			PM:	Paula Sime	
990 San Pablo Ave, Albany, CA			Total Purge Volume		
TOTAL PURGE					
COMMENTS:					
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
MW4	10:44	2	°C	uS	
	10:46	2	14.10	492.00	6.94
	10:47	4	13.70	523.00	6.95
		6			
TOTAL PURGE	5				
COMMENTS:					
		PRG			
WELL #	TIME	VOL	TEMP	COND	pH
MW5	10:57	2	°C	uS	
	10:58	2	9.30	314.00	7.19
	10:59	4	10.30	288.00	7.18
		6			
TOTAL PURGE	4.5				
COMMENTS:					

APPENDIX C

**LABORATORY ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY RECORD**



April 20, 2011

RECEIVED
APR 26 2011

Paula Sime
Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

BY:.....

Subject: **Calscience Work Order No.: 11-04-0678**
Client Reference: **ExxonMobil 79374/022735C**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/9/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile de Guia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager



Analytical Report



Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 04/09/11
 Work Order No: 11-04-0678
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW1	11-04-0678-2-G	04/07/11 11:45	Aqueous	GC 27	04/11/11	04/12/11 17:03	110411B15S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

W-10-MW2	11-04-0678-3-G	04/07/11 12:00	Aqueous	GC 27	04/11/11	04/12/11 17:21	110411B15S
----------	----------------	-------------------	---------	-------	----------	-------------------	------------

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	68-140	

W-12-MW3	11-04-0678-4-G	04/07/11 12:50	Aqueous	GC 27	04/11/11	04/12/11 17:39	110411B15S
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	88	68-140	

W-6-MW4	11-04-0678-5-G	04/07/11 12:15	Aqueous	GC 27	04/11/11	04/12/11 17:57	110411B15S
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 04/09/11
 Work Order No: 11-04-0678
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-8-MW5	11-04-0678-6-G	04/07/11 12:40	Aqueous	GC 27	04/11/11	04/12/11 18:15	110411B15S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW6	11-04-0678-7-G	04/07/11 12:25	Aqueous	GC 27	04/11/11	04/12/11 18:33	110411B15S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-234-839	N/A	Aqueous	GC 27	04/11/11	04/12/11 14:38	110411B15S

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 04/09/11
 Work Order No: 11-04-0678
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW1	11-04-0678-2-G	04/07/11 11:45	Aqueous	GC 27	04/11/11	04/12/11 17:03	110411B14S

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
 -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	65	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	85	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-10-MW2	11-04-0678-3-G	04/07/11 12:00	Aqueous	GC 27	04/11/11	04/12/11 17:21	110411B14S

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1	U	ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	86	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-12-MW3	11-04-0678-4-G	04/07/11 12:50	Aqueous	GC 27	04/11/11	04/12/11 17:39	110411B14S

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
 -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	2700	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	88	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 04/09/11
 Work Order No: 11-04-0678
 Preparation: EPA 3510C
 Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-6-MW4	11-04-0678-5-G	04/07/11 12:15	Aqueous	GC 27	04/11/11	04/12/11 17:57	110411B14S

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
 -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	1900	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	86	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-8-MW5	11-04-0678-6-G	04/07/11 12:40	Aqueous	GC 27	04/11/11	04/12/11 18:15	110411B14S

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
 -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	610	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	82	68-140	

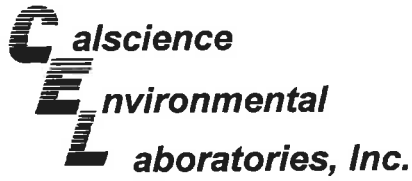
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW6	11-04-0678-7-G	04/07/11 12:25	Aqueous	GC 27	04/11/11	04/12/11 18:33	110411B14S

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
 -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	660	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 3510C
Method: EPA 8015B (M)

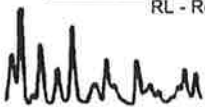
Project: ExxonMobil 79374/022735C

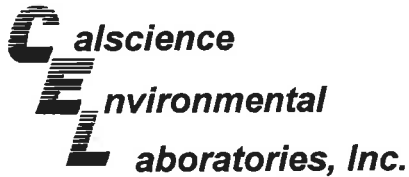
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-330-1,858	N/A	Aqueous	GC 27	04/11/11	04/12/11 14:38	110411B14S

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Diesel	ND	50	1	U	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	87	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW1	11-04-0678-2-D	04/07/11 11:45	Aqueous	GC 56	04/11/11	04/11/11 21:35	110411B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	160	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	79	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-10-MW2	11-04-0678-3-D	04/07/11 12:00	Aqueous	GC 56	04/11/11	04/11/11 22:07	110411B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	76	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-12-MW3	11-04-0678-4-D	04/07/11 12:50	Aqueous	GC 56	04/11/11	04/11/11 22:39	110411B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	14000	1000	20		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	83	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-6-MW4	11-04-0678-5-D	04/07/11 12:15	Aqueous	GC 56	04/11/11	04/11/11 23:11	110411B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	9600	1000	20		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	81	38-134	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 04/09/11
 Work Order No: 11-04-0678
 Preparation: EPA 5030C
 Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-8-MW5	11-04-0678-6-D	04/07/11 12:40	Aqueous	GC 56	04/11/11	04/11/11 23:44	110411B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	2500	500	10		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	79	38-134	

W-9-MW6	11-04-0678-7-D	04/07/11 12:25	Aqueous	GC 56	04/11/11	04/12/11 00:16	110411B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	2000	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	104	38-134	

Method Blank	099-12-436-6,068	N/A	Aqueous	GC 56	04/11/11	04/11/11 11:22	110411B01
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	77	38-134	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW1	11-04-0678-2-A	04/07/11 11:45	Aqueous	GC/MS BB	04/13/11	04/14/11 08:38	110413L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.9	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	0.92	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	1.7	0.50	1		1,2-Dibromoethane	ND	0.50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dichloroethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	10	5.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,2-Dichloroethane-d4	98	80-128			Toluene-d8	102	80-120		
Dibromofluoromethane	94	80-127			1,4-Bromofluorobenzene	98	68-120		

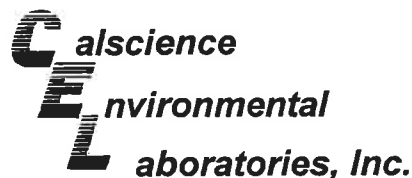
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-10-MW2	11-04-0678-3-A	04/07/11 12:00	Aqueous	GC/MS BB	04/13/11	04/14/11 09:07	110413L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1	U	Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	ND	0.50	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	ND	0.50	1	U	1,2-Dibromoethane	ND	0.50	1	U
Methyl-t-Butyl Ether (MTBE)	0.51	0.50	1		1,2-Dichloroethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	ND	5.0	1	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Toluene-d8	99	80-120			Dibromofluoromethane	94	80-127		
1,4-Bromofluorobenzene	99	68-120			1,2-Dichloroethane-d4	100	80-128		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-12-MW3	11-04-0678-4-A	04/07/11 12:50	Aqueous	GC/MS BB	04/13/11	04/14/11 09:36	110413L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	600	10	20		Diisopropyl Ether (DIPE)	ND	10	20	U
Toluene	150	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	10	20	U
Ethylbenzene	780	10	20		Tert-Amyl-Methyl Ether (TAME)	ND	10	20	U
Xylenes (total)	230	10	20		1,2-Dibromoethane	ND	10	20	U
Methyl-t-Butyl Ether (MTBE)	ND	10	20	U	1,2-Dichloroethane	ND	10	20	U
Tert-Butyl Alcohol (TBA)	ND	100	20	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	97	80-127			Toluene-d8	101	80-120		
1,2-Dichloroethane-d4	99	80-128			1,4-Bromofluorobenzene	98	68-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-6-MW4	11-04-0678-5-A	04/07/11 12:15	Aqueous	GC/MS BB	04/13/11	04/14/11 10:05	110413L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	530	10	20		Diisopropyl Ether (DIPE)	ND	10	20	U
Toluene	59	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	10	20	U
Ethylbenzene	250	10	20		Tert-Amyl-Methyl Ether (TAME)	ND	10	20	U
Xylenes (total)	340	10	20		1,2-Dibromoethane	ND	10	20	U
Methyl-t-Butyl Ether (MTBE)	ND	10	20	U	1,2-Dichloroethane	ND	10	20	U
Tert-Butyl Alcohol (TBA)	ND	100	20	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,2-Dichloroethane-d4	103	80-128			Toluene-d8	100	80-120		
Dibromofluoromethane	100	80-127			1,4-Bromofluorobenzene	101	68-120		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-8-MW5	11-04-0678-6-B	04/07/11 12:40	Aqueous	GC/MS BB	04/14/11	04/14/11 18:18	110414L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	61	2.5	5		Diisopropyl Ether (DIPE)	ND	2.5	5	U
Toluene	32	2.5	5		Ethyl-t-Butyl Ether (ETBE)	ND	2.5	5	U
Ethylbenzene	180	2.5	5		Tert-Amyl-Methyl Ether (TAME)	ND	2.5	5	U
Xylenes (total)	390	2.5	5		1,2-Dibromoethane	ND	2.5	5	U
Methyl-t-Butyl Ether (MTBE)	ND	2.5	5	U	1,2-Dichloroethane	ND	2.5	5	U
Tert-Butyl Alcohol (TBA)	ND	25	5	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,2-Dichloroethane-d4	103	80-128			1,4-Bromofluorobenzene	102	68-120		
Dibromofluoromethane	98	80-127			Toluene-d8	101	80-120		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-9-MW6	11-04-0678-7-A	04/07/11 12:25	Aqueous	GC/MS BB	04/14/11	04/14/11 15:51	110414L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	10	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	1.0	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	20	0.50	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	19	0.50	1		1,2-Dibromoethane	ND	0.50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dichloroethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	ND	5.0	1	U					
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Toluene-d8	103	80-120			1,2-Dichloroethane-d4	99	80-128		
Dibromofluoromethane	96	80-127			1,4-Bromofluorobenzene	99	68-120		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 04/09/11
 Work Order No: 11-04-0678
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: ExxonMobil 79374/022735C

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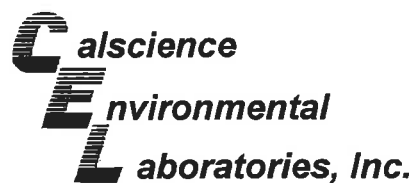
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-571	N/A	Aqueous	GC/MS BB	04/13/11	04/14/11 02:22	110413L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1	U	Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	ND	0.50	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	ND	0.50	1	U	1,2-Dibromoethane	ND	0.50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dichloroethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	ND	5.0	1	U					
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
1,2-Dichloroethane-d4	98	80-128			Toluene-d8	99	80-120		
Dibromofluoromethane	96	80-127			1,4-Bromofluorobenzene	98	68-120		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-572	N/A	Aqueous	GC/MS BB	04/14/11	04/14/11 13:54	110414L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1	U	Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	ND	0.50	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	ND	0.50	1	U	1,2-Dibromoethane	ND	0.50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dichloroethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	ND	5.0	1	U					
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
Toluene-d8	99	80-120			Dibromofluoromethane	95	80-127		
1,4-Bromofluorobenzene	97	68-120			1,2-Dichloroethane-d4	98	80-128		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

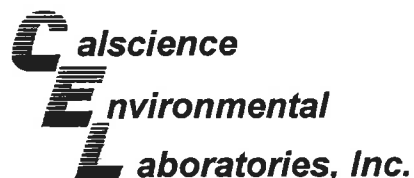
Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-04-0675-2	Aqueous	GC 56	04/11/11	04/11/11	110411S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	101	100	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

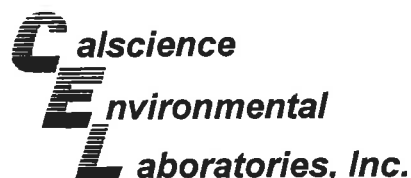
Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-04-0833-4	Aqueous	GC/MS BB	04/13/11	04/14/11	110413S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	100	76-124	0	0-20	
Toluene	97	97	80-120	1	0-20	
Ethylbenzene	97	94	78-126	3	0-20	
Methyl-t-Butyl Ether (MTBE)	101	102	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	105	102	36-162	3	0-30	
Diisopropyl Ether (DIPE)	102	100	60-138	2	0-45	
Ethyl-t-Butyl Ether (ETBE)	102	101	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	99	97	65-120	2	0-20	
Ethanol	109	115	30-180	6	0-72	
1,2-Dibromoethane	99	101	80-120	2	0-20	
1,2-Dichloroethane	103	103	80-120	0	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

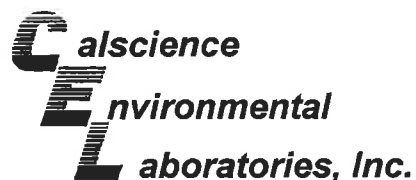
Date Received: 04/09/11
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8260B

Project ExxonMobil 79374/022735C

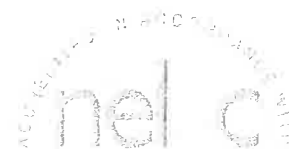
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-04-0838-1	Aqueous	GC/MS BB	04/14/11	04/14/11	110414S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	97	100	76-124	3	0-20	
Toluene	95	99	80-120	4	0-20	
Ethylbenzene	95	98	78-126	3	0-20	
Methyl-t-Butyl Ether (MTBE)	106	104	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	115	105	36-162	9	0-30	
Diisopropyl Ether (DIPE)	99	100	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	101	102	69-123	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	97	98	65-120	1	0-20	
Ethanol	118	113	30-180	5	0-72	
1,2-Dibromoethane	99	100	80-120	1	0-20	
1,2-Dichloroethane	97	101	80-120	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

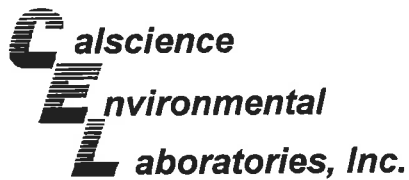
Date Received: N/A
Work Order No: 11-04-0678
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-234-839	Aqueous	GC 27	04/11/11	04/12/11	110411B15S

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	90	93	75-117	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

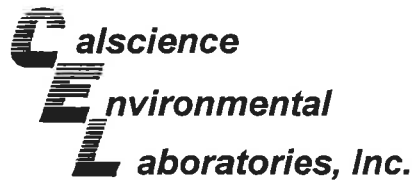
Date Received: N/A
Work Order No: 11-04-0678
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-1,858	Aqueous	GC 27	04/11/11	04/12/11	110411B14S

Parameter	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	90	92	75-117	2	0-13	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

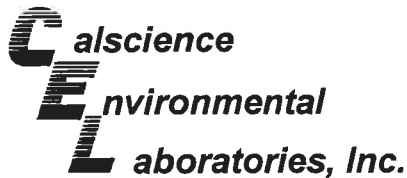
Date Received: N/A
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

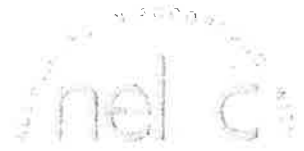
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-6,068	Aqueous	GC 56	04/11/11	04/11/11	110411B01

Parameter	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	99	97	78-120	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit



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Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-884-571	Aqueous	GC/MS BB	04/13/11	04/14/11	110413L05		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	100	80-120	73-127	5	0-20	
Toluene	104	109	80-120	73-127	4	0-20	
Ethylbenzene	102	108	80-120	73-127	5	0-20	
Methyl-t-Butyl Ether (MTBE)	105	101	69-123	60-132	4	0-20	
Tert-Butyl Alcohol (TBA)	106	112	63-123	53-133	6	0-20	
Diisopropyl Ether (DIPE)	106	104	59-137	46-150	2	0-37	
Ethyl-t-Butyl Ether (ETBE)	106	104	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	104	99	70-120	62-128	4	0-20	
Ethanol	118	83	28-160	6-182	35	0-57	
1,2-Dibromoethane	103	105	79-121	72-128	2	0-20	
1,2-Dichloroethane	108	101	80-120	73-127	6	0-20	

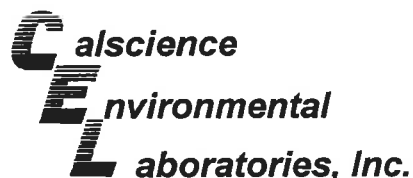
Total number of LCS compounds : 11

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 11-04-0678
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-884-572	Aqueous	GC/MS BB	04/14/11	04/14/11	110414L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	100	80-120	73-127	1	0-20	
Toluene	101	102	80-120	73-127	1	0-20	
Ethylbenzene	102	101	80-120	73-127	1	0-20	
Methyl-t-Butyl Ether (MTBE)	99	100	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	103	103	63-123	53-133	0	0-20	
Diisopropyl Ether (DIPE)	101	102	59-137	46-150	2	0-37	
Ethyl-t-Butyl Ether (ETBE)	101	102	69-123	60-132	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	97	70-120	62-128	0	0-20	
Ethanol	113	118	28-160	6-182	5	0-57	
1,2-Dibromoethane	99	99	79-121	72-128	0	0-20	
1,2-Dichloroethane	101	103	80-120	73-127	2	0-20	

Total number of LCS compounds : 11

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 11-04-0678

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS recovery percentage is within LCS ME control limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
U	Undetected at detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

0678

GSO
GROSS SHIPMENT SERVICES

WebShip >>>>>

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
\$0.00

Reference:
CARDNO ERI, STANTEC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 516326596

SDS

ORC **D**

GARDEN GROVE

D92843A



90146088

Print Date : 04/08/11 14:45 PM

Package 1 of 1

Send Label To Printer Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

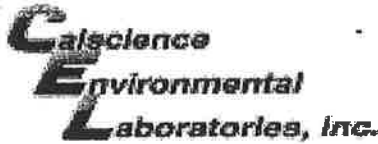
- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to your package, do not cover the barcode.
- STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 11-04-0678

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno ERI

DATE: 04/09/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.5°C + 0.5°C (CF) = 3.0°C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: YL

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: YL

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA⁶h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ² 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: NA Labeled/Checked by: [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: TN

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: TN

APPENDIX D
WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. EM 79374	2. Page 1 of 1
3. Generator's Name and Mailing Address EM # 7-9374 990 San Pablo Ave. ALBANY CA		CARDNO-ERI			
4. Generator's Phone ()					
5. Transporter 1 Company Name Cardno-ERI		6. US EPA ID Number 		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number 		B. Transporter Phone 766-2000	
9. Designated Facility Name and Site Address InStrat Inc 1105C Airport Rd Rio Vista CA		10. US EPA ID Number 		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone (707) 374-3834	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a.			No.	Type	
Non Hazardous monitoring well water			1	Poly	55 gal
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above Color - clear odor - solids -			H: Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
16: GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Bill Prouse				Signature	
				Date	
				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date	
				Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name InStrat Inc P. M... ..				Signature	
				Date	
				Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY