



November 22, 2005
RRM Project# IA220

Mr. Bob Schultz
Hazardous Materials Specialist
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-5577

Re: Groundwater Monitoring Results – Third Quarter 2005
649 Pacific Avenue
Alameda, California

Dear Mr. Schultz

This report, prepared by RRM, Inc. (RRM) on behalf of Timber Del Properties, LLC, presents the results of the Third Quarter 2005 groundwater monitoring conducted at the referenced site (Figure 1) on September 26, 2005. A discussion of the groundwater monitoring results is presented below, followed by conclusions and recommendations.

GROUNDWATER MONITORING RESULTS

On September 26, 2005, the depth-to-groundwater was measured and groundwater samples were collected from on-site monitoring wells MW-1 through MW-5. All groundwater samples were analyzed for the presence of Stoddard solvent range total petroleum hydrocarbons (TPHss) by Environmental Protection Agency (EPA) Method 8015M, gasoline range TPH (TPHg), benzene, toluene, ethyl benzene, and xylenes (collectively BTEX), by EPA Method 8260B. Field and analytical procedures are presented as Attachment A.

Groundwater Elevation, Flow Direction and Gradient

Groundwater elevations were calculated from depth-to-groundwater data; groundwater elevations ranged from 6.11 feet above mean sea level (msl) in Well MW-5 to 6.93 feet above msl in Well MW-3. Groundwater beneath the site was calculated to flow to the northeast at an approximate gradient of 0.005 foot per foot. Depth-to-groundwater and elevation data are summarized in Table 1, field data sheets are included in Attachment B, and the groundwater elevation contour prepared for the September 26, 2005 monitoring event is shown on Figure 2.

Groundwater Analytical Data

The laboratory only detected TPHss and TPHg above the reporting limit in the groundwater sample collected from Well MW-1 at concentrations of 190 parts per billion (ppb) and 560 ppb, respectively; no other analyzed compounds were detected in any of the groundwater samples. TPHg was not

detected in groundwater during the first and second quarters of 2005. Groundwater analytical data is summarized in Table 1 and shown on Figure 2; certified analytical reports and chain-of-custody documentation are included in Attachment B.

CONCLUSIONS

Based on the information presented above and previous monitoring activities, RRM concludes the following:

- Depth-to-groundwater measurements ranged from 6.11 feet to 6.93 feet bgs and groundwater was determined to flow toward the northeast.
- TPHss and TPHg were only detected in the groundwater sample from Well MW-1 at 190 ppb and 560 ppb, respectively; no other analyzed compounds were detected in any of the groundwater samples.
- The dissolved plume at the site appears stable at this time.

RECOMMENDATIONS

- Conduct at least one additional groundwater monitoring event to further establish plume stability.

Should you have any questions regarding the contents of this document, please do not hesitate to call RRM at (831) 475-8141.

Sincerely,

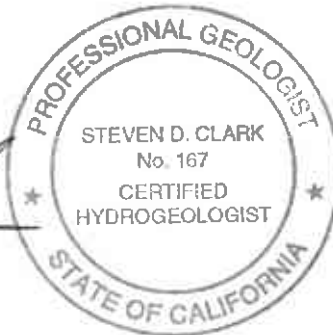
RRM, Inc.,



Julie Avanto
Project Engineer



Steven D. Clark
Senior Hydrogeologist, CHG 167



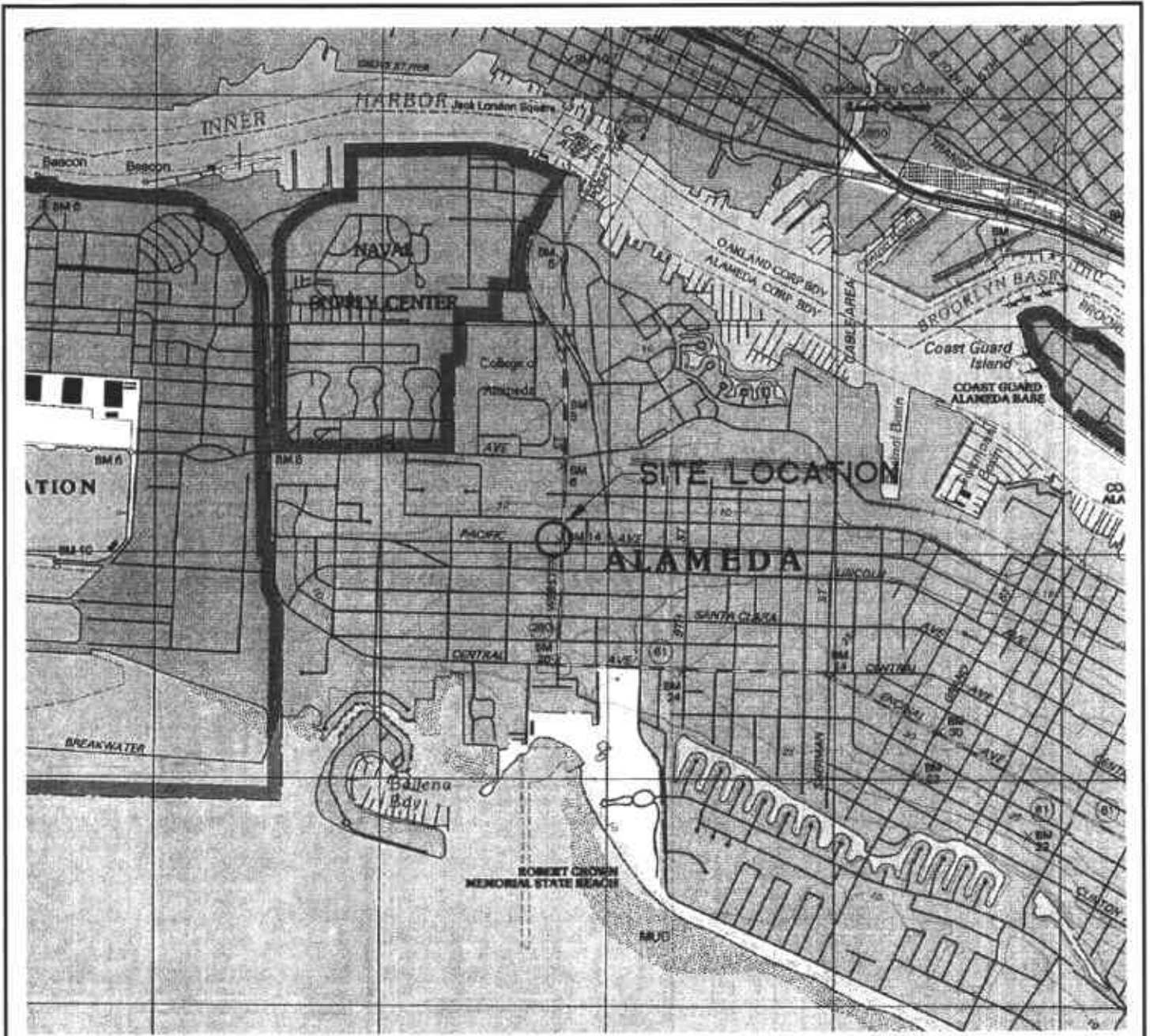
Mr. Bob Schultz
November 22, 2005
Page 3

Attachments: Table 1 – Groundwater Elevation and Analytical Data
Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour and Analytical Results Map,
June 30, 2005
Attachment A – Field and Analytical Procedures
Attachment B – Certified Analytical Reports, Chain-of-Custody
Documentation, and Field Data Sheets

cc: Mr. Don Lindsey
Timber Del Properties, LLC
2424 Central Avenue
Alameda, California 94501

Mr. Mark Russel
The Mechanics Bank
343 Sansome Street, Suite 100
San Francisco, California 94101

Mr. Carl Searway
3032 Dakota Street
Oakland, California 94602



QUADRANGLE LOCATION



Ref. 14220/14220-SALONG
Base Map from TOPOTI 1422

SITE LOCATION MAP

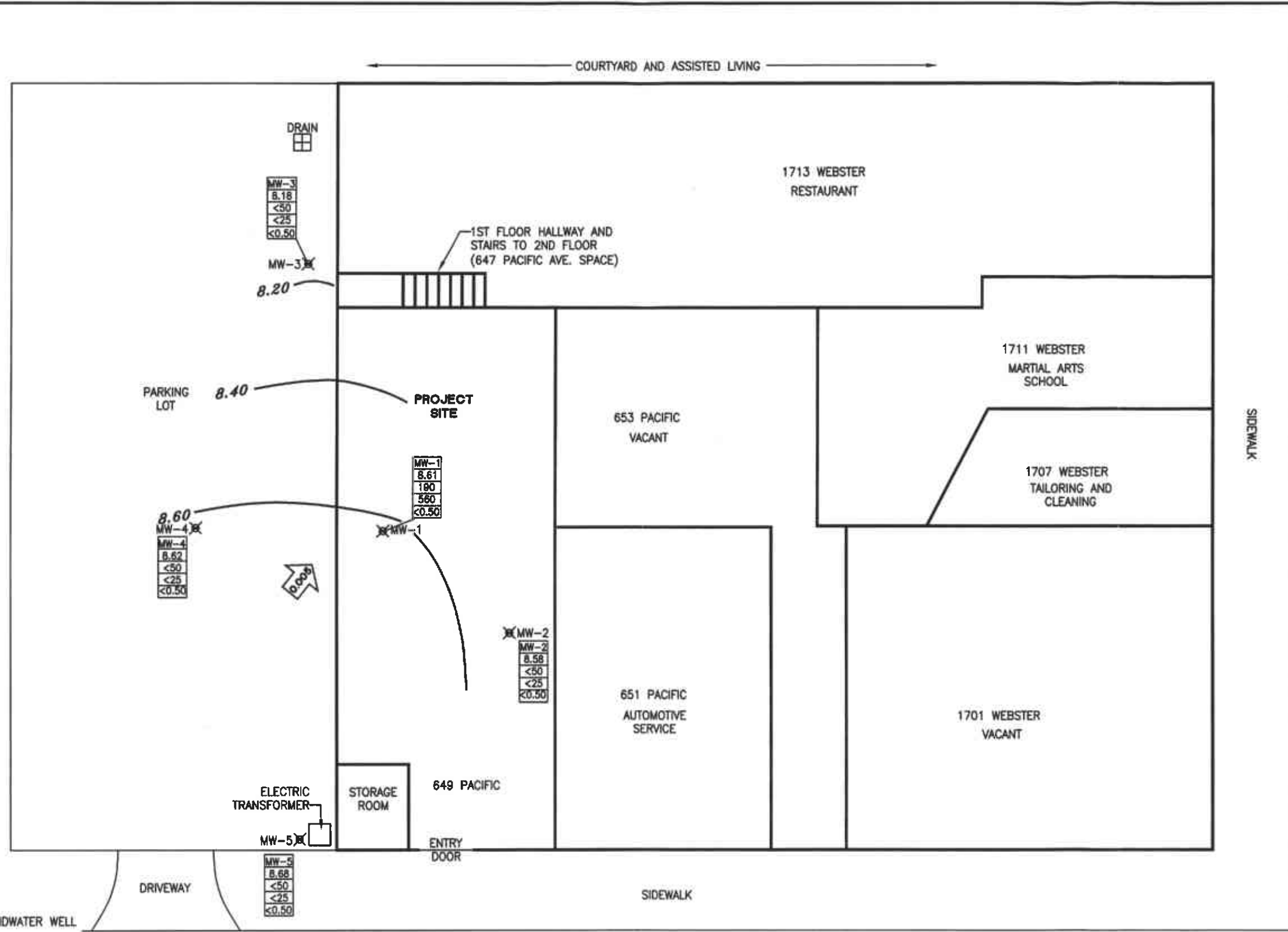
649 Pacific Avenue
Alameda, California

FIGURE:
1
PROJECT:
IA220





CITY OF ALAMEDA
FIRE STATION



EXPLANATION

- MW-6 ◊ VICINITY SITE GROUNDWATER WELL
- MW-1 ✕ GROUNDWATER MONITORING WELL LOCATION (RRM)
- MW-5
8.68
<50
<25
<0.50
WELL DESIGNATION
GROUNDWATER ELEVATION (FT, MSL)
TPH_{ss} CONCENTRATION IN GROUNDWATER (ppb)
TPH_g CONCENTRATION IN GROUNDWATER (ppb)
BENZENE CONCENTRATION IN GROUNDWATER (ppb)
- 8.20 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ↗ APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT
- TPH_{ss} STODDARD SOLVENT RANGE TOTAL PETROLEUM HYDROCARBONS
- TPH_g GASOLINE RANGE TOTAL PETROLEUM HYDROCARBONS

Ref. 14220-0120-01-000000
Revised: 9/26/05
Prepared by: Stoller Environmental Solutions, Inc.

PACIFIC AVENUE



GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL RESULTS MAP
SEPTEMBER 26, 2005

649 Pacific Avenue
Alameda, California

FIGURE:
2
PROJECT:
IA220

ATTACHMENT A

FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A
FIELD AND ANALYTICAL PROCEDURES

Field Procedures

Groundwater sampling procedures consisted of initially measuring and documenting the water level in each well and checking each well for the presence of separate-phase hydrocarbon (SPH) using a oil/water interface probe or a clear Teflon bailer. The wells that did not contain SPH were then purged a minimum of three casing volumes or until dry. During purging, well stabilization parameters (temperature, pH, and electrical conductivity) were monitored. After purging and prior to sampling, groundwater in the wells was allowed to recharge to within 80% of the original groundwater level. Groundwater samples were then collected using clean Teflon bailers or disposable bailers and appropriate EPA-approved containers. The samples were then labeled, and transported on ice to the laboratory using appropriate chain-of-custody documentation. Sampling equipment was cleaned with an Alconox soap solution between uses. Purge water generated during groundwater sampling was temporarily stored on site in 55-gallon drums pending disposal. The drums were labeled and profiled prior to disposal.

Laboratory Analytical Procedures

Groundwater samples were analyzed for TPHss by EPA Method 8015 (Modified), and TPHg and BTEX compounds by EPA Method 8260B. Entech Analytical Labs Inc. of Santa Clara, California, a California State-certified laboratory, performed all analyses.

ATTACHMENT B

**CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY
DOCUMENTATION, AND FIELD DATA SHEETS**

Field Data Sheet
Groundwater Sampling Form

Site Information

640 Pacific Ave. MW-1 IA220
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Baller Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth	20
depth to water	- 6.57
linear feet of water	= 13.43
gallons per linear foot X	.17
gallons per casing	= 2.28
number of casings X	3
calculated purge	= 6.85

casing diameter		gallons per linear foot
0.75 in.	<input type="checkbox"/>	0.023
1 in.	<input type="checkbox"/>	0.04
2 in.	<input checked="" type="checkbox"/>	0.17
3 in.	<input type="checkbox"/>	0.38
4 in.	<input type="checkbox"/>	0.67
6 in.	<input type="checkbox"/>	1.5

1 cubic foot = 7.48 gallons

Purged By: [Signature]
 name _____

Purge Notes: _____

Purged Dry?: N circle Y Sampling Delay?: N circle Y

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1105	0						
volume 1	1120	2.25	7.26	547	20.4	brown	mod.	slight
volume 2	1125	4.50	7.25	511	20.2	"	"	"
volume 3	1128	7.00	7.25	491	20.1	"	"	"
volume 4								
complete								

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Baller Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID	Date	Time (24:00)
MW-1	92605	1135
Dupe #		12:00

Sampled By: [Signature]
 name _____

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input type="checkbox"/> TPH gas (8015M) <input type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MtBE (8020 or 8260B) <input type="checkbox"/> Fuel Oxy (8260B) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes: _____

Signature: [Signature]

Field Data Sheet Groundwater Sampling Form

Site Information	
649 Pacific Ave. Project Address	MW-2 IA220 Well/Sample Point ID Project Number
Alameda City	Alameda California County State

Purge Information

Water Level Equipment <input checked="" type="checkbox"/> Electronic Indicator <input type="checkbox"/> Oil Water Interface Probe <input type="checkbox"/> Other (specify) _____	Purge Equipment <input checked="" type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable <input type="checkbox"/> Teflon # _____ <input type="checkbox"/> Submersible Pump; type: _____ <input type="checkbox"/> Other (specify) _____
--	---

Purge Calculation	
total depth	<u>20</u>
depth to water -	<u>6.63</u>
linear feet of water =	<u>13.37</u>
gallons per linear foot X	<u>0.17</u>
gallons per casing =	<u>2.27</u>
number of casings X	<u>3</u>
calculated purge =	<u>6.82</u>

casing diameter		gallons per linear foot
0.75 in.	<input type="checkbox"/>	0.023
1 in.	<input type="checkbox"/>	0.04
2 in.	<input checked="" type="checkbox"/>	0.17
3 in.	<input type="checkbox"/>	0.38
4 in.	<input type="checkbox"/>	0.67
6 in.	<input type="checkbox"/>	1.5
1 cubic foot = 7.48 gallons		

Purged By: [Signature]
name _____

Purge Notes:

Purged Dry?: N circle Y Sampling Delay?: N circle Y

	time (24:00)	gallons (purged)	pH (units)	EC (u s @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	<u>1036</u>	<u>0</u>						
volume 1	<u>1040</u>	<u>2.25</u>	<u>7.76</u>	<u>404</u>	<u>20.8</u>	<u>brown</u>	<u>knoc.</u>	<u>slight</u>
volume 2	<u>1045</u>	<u>4.50</u>	<u>7.55</u>	<u>361</u>	<u>20.1</u>	<u>"</u>	<u>"</u>	<u>"</u>
volume 3	<u>1048</u>	<u>7.00</u>	<u>7.47</u>	<u>414</u>	<u>20.1</u>	<u>"</u>	<u>"</u>	<u>"</u>
volume 4								
complete								

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type <input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Extraction Well <input type="checkbox"/> Domestic Well <input type="checkbox"/> Other (specify) _____	Sampling Equipment <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable <input type="checkbox"/> Teflon # _____ <input type="checkbox"/> Submersible Pump; type: _____ <input type="checkbox"/> Sampling Port <input type="checkbox"/> Other (specify) _____
---	---

Sample ID	Date	Time (24:00)
<u>MW-2</u>	<u>92605</u>	<u>1055</u>
Dupe # _____		12:00

Sampled By: [Signature]
name _____

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
<u>3</u>	<input type="checkbox"/> TPH gas (8015M) <input type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8020 or 8260B) <input type="checkbox"/> Fuel Oxy (8260B) <input type="checkbox"/> Other (specify) _____	<u>40 ml</u> <u>VOA</u>	<u>HCl</u>
<u>2</u>	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	<u>40 ml VOA</u> <u>1 liter amber</u> <u>500 ml plastic</u>	<u>HCl</u> <u>none</u> <u>HNO₃</u>

Sampling Notes:

Signature: [Signature]

Field Data Sheet
Groundwater Sampling Form

Site Information

649 Pacific Ave. MW-3 IA220
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth	20
depth to water	6.93
linear feet of water	13.07
gallons per linear foot X	.17
gallons per casing	2.22
number of casings X	3
calculated purge	6.66

casing diameter		gallons per linear foot
0.75 in.	<input type="checkbox"/>	0.023
1 in.	<input type="checkbox"/>	0.04
2 in.	<input checked="" type="checkbox"/>	0.17
3 in.	<input type="checkbox"/>	0.38
4 in.	<input type="checkbox"/>	0.67
6 in.	<input type="checkbox"/>	1.5

1 cubic foot = 7.48 gallons

Purged By: MD
 name _____

Purge Notes:
Please to calibrate EC
Well purged dry got ~4.50 gals.
Purge cut short

Purged Dry?: No Yes Sampling Delay?: No Yes

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle, °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1005	0						
volume 1	1009	2.25	8.10	818	20.4	brown	mod.	none
volume 2	1017	4.50	7.65	399	20.5	"	heavy	"
volume 3								
volume 4								
complete								

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID	Date	Time (24:00)
MW-3	92605	1025
Dupe #		12:00

Sampled By: MD
 name _____

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input type="checkbox"/> TPH gas (8015M) <input type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8020 or 8260B) <input type="checkbox"/> Fuel Oxy (8260B) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes:

Signature: [Signature]

Field Data Sheet

Groundwater Sampling Form

Site Information

849 Pacific Ave. _____
 Project Address

Alameda _____ Alameda _____ California _____
 City County State

MW-4 _____ IA220 _____
 Well/Sample Point ID Project Number

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth 20

depth to water - 6.40

linear feet of water = 13.60

gallons per linear foot X .17

gallons per casing = 2.31

number of casings X 3

calculated purge = 6.94

casing diameter		gallons per linear foot
0.75 in.	<input type="checkbox"/>	0.023
1 in.	<input type="checkbox"/>	0.04
2 in.	<input checked="" type="checkbox"/>	0.17
3 in.	<input type="checkbox"/>	0.38
4 in.	<input type="checkbox"/>	0.67
6 in.	<input type="checkbox"/>	1.5

1 cubic foot = 7.48 gallons

Purged By: WWS
 name

Purge Notes:

Purged Dry?: N circle Y Sampling Delay?: N circle Y

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25°C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1150	0						
volume 1	1157	2.25	7.34	525	25.6	brown	moderate	none
volume 2	1201	4.50	7.20	503	23.5	"	"	"
volume 3	1203	7.00	7.21	556	23.3	"	"	"
volume 4								
complete								

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID	Date	Time (24:00)
MW-4	92605	1210
Dupe # _____		12:00

Sampled By: WWS
 name

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input type="checkbox"/> TPH gas (8015M) <input type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8020 or 8260B) <input type="checkbox"/> Fuel Oxy (8260B) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HCl
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes:

Signature: WWS

Field Data Sheet
Groundwater Sampling Form

Site Information

649 Pacific Ave. MW-5 IA220
 Project Address Well/Sample Point ID Project Number

Alameda Alameda California
 City County State

Purge Information

Water Level Equipment

Electronic Indicator
 Oil Water Interface Probe
 Other (specify) _____

Purge Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Other (specify) _____

Purge Calculation

total depth	20
depth to water -	6.11
linear feet of water =	13.89
gallons per linear foot X	1.7
gallons per casing =	2.36
number of casings X	3
calculated purge =	7.08

casing diameter		gallons per linear foot
0.75 in.	<input type="checkbox"/>	0.023
1 in.	<input type="checkbox"/>	0.04
2 in.	<input checked="" type="checkbox"/>	0.17
3 in.	<input type="checkbox"/>	0.38
4 in.	<input type="checkbox"/>	0.67
6 in.	<input type="checkbox"/>	1.5

1 cubic foot = 7.48 gallons

Purged By:
 name

Purge Notes: _____

Purged Dry?: N circle Y Sampling Delay?: N circle Y

	time (24:00)	gallons (purged)	pH (units)	EC (us @ 25° C)	temp (°F circle °C)	color (see below)	turbidity (NTU or see below)	odor (see below)
start	1216	0						
volume 1	1222	2.25	7.03	468	23.3	brown	mod.	none
volume 2	1225	4.75	7.25	391	22.6	"	"	"
volume 3	1228	7.25	7.39	351	22.1	"	"	"
volume 4								
complete								

brown, yellow cloudy, clear heavy, moderate light, trace strong, moderate slight, none

Groundwater Sampling Information

Sample Type

Monitoring Well
 Extraction Well
 Domestic Well
 Other (specify) _____

Sampling Equipment

Bailor Disposable Teflon #: _____
 Submersible Pump; type: _____
 Sampling Port
 Other (specify) _____

Sample ID	Date	Time (24:00)
MW-5	92605	1235
Dupe #		12:00

Sampled By:
 name

# of Cont.	Analyses (check and circle)	Container/Size	Preservative
3	<input type="checkbox"/> TPH gas (8015M) <input type="checkbox"/> BTEX (8020 or 8260B) <input type="checkbox"/> MIBE (8020 or 8260B) <input type="checkbox"/> Fuel Oxy (8260B) <input type="checkbox"/> Other (specify) _____	40 ml VOA	HC
2	<input type="checkbox"/> VOCs (8010 or 8240 or 8260B) <input type="checkbox"/> TPH diesel (8015M) <input type="checkbox"/> Metals (8010) <input type="checkbox"/> Other (specify) _____	40 ml VOA 1 liter amber 500 ml plastic	HCl none HNO ₃

Sampling Notes: _____

Signature:



2560 SOQUEL AVENUE, SUITE E
SANTA CRUZ, CALIFORNIA 95062
TEL: 831.475.8141
FAX: 831.475.8249

**FIELD
DATA SHEET**

Client: <u>Don Lindsay</u>	Project #: <u>IA220</u>
Job Address: <u>649 Pacific Ave</u>	Date: <u>9/26/05</u>
Weather Conditions: <u>clear</u>	Personnel: <u>(WB)</u>
Equipment on site: <u>5m truck, sampling equipment</u>	
Arrival Time: <u>935</u>	
Departure Time: <u>1300</u>	

FIELD NOTES:

Check drums upon arrival
0940 Begin DTW measurements
~~0950~~ 1000 Finish " " , begin purge calculations
1005 Begin Sampling
1240 Finish GWS , begin cleanup
1300 Depart to Entech Analytical
6 drums of Soil
5 drums of H₂O + ? > all full

Signature: William

Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200
 Santa Clara, CA 95054 (408) 588-0201 - Fax

Chain of Custody / Analysis Request

Attention to: <i>Matt Paulus</i>	Phone No.: <i>831 475 8141</i>	Purchase Order No.:	Invoice to: (If Different)	Phone:
Company Name: <i>RRM, Inc</i>	Fax No.: <i>831 475 8249</i>	Project No.: <i>IA220</i>	Company:	Quote No.:
Mailing Address: <i>2560 Soquel Ave #202</i>	Email Address: <i>mp@rrm.sc.com</i>	Project Name: <i>Don Lindsey</i>	Billing Address: (If Different)	
City: <i>Santa Cruz</i>	State: <i>CA</i>	Zip Code: <i>95062</i>	Project Location: <i>649 Pacific Ave.</i>	City: <i>Alameda</i>
				State: <i>CA</i>
				Zip:

Sampler:	Field Org. Code:	Turn Around Time		Matrix	No. of Containers	GC/MS Methods		GC Methods		General Chemistry		Remarks										
		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day			<input type="checkbox"/> 2 Day	<input type="checkbox"/> 3 Day	<input type="checkbox"/> 4 Day	<input type="checkbox"/> 5 Day	<input checked="" type="checkbox"/> 10 Day	<input type="checkbox"/> EPA 8260B		<input type="checkbox"/> FTIR	<input type="checkbox"/> MTBE	<input type="checkbox"/> TPH Gas	<input type="checkbox"/> 5 Oxygenates (MTBE, TBA, ETBA, DPE, TAME)	<input type="checkbox"/> Lead Scavengers (1,2-DCA & EDB)	<input type="checkbox"/> Base/Neutral/Acid Oxides	<input type="checkbox"/> 8270C	<input type="checkbox"/> PAH - 8270C	<input type="checkbox"/> PAH - 8270C SIM	<input type="checkbox"/> TPH Extractable: Diesel
<i>WSP</i>																						
Global ID:																						
Order-ID:																						
Client ID / Field Point	Lab. No.	Date	Time	Matrix	No. of Containers	EPA 8260B	FTIR	MTBE	TPH Gas	5 Oxygenates (MTBE, TBA, ETBA, DPE, TAME)	Lead Scavengers (1,2-DCA & EDB)	Base/Neutral/Acid Oxides	8270C	PAH - 8270C	PAH - 8270C SIM	TPH Extractable: Diesel	Micro Oil	PCBs - 8082	Methanol by 8015M/8020	Anions: F, Cl, Br, SO4, NO3, NO2, PO4	Metals: Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mn, Fe, Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, Zn, V, W, Zr	Remarks
<i>MW-1</i>		<i>9/26/05</i>	<i>1135</i>	<i>L</i>	<i>5</i>	<input checked="" type="checkbox"/>																
<i>MW-2</i>			<i>1055</i>																			
<i>MW-3</i>			<i>1025</i>																			
<i>MW-4</i>			<i>1210</i>																			
<i>MW-5</i>			<i>1235</i>																			

Relinquished by: <i>Will...</i>	Received by: <i>Mad...</i>	Date: <i>9/26/05</i>	Time: <i>1410</i>	Special Instructions or Comments <i>a.k.a: Mineral Spirits</i> Metals: Al, As, Sb, Ba, Be, Bi, B, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, Zn, V, W, Zr	<input type="checkbox"/> EDD Report
Relinquished by:	Received by:	Date:	Time:		<input checked="" type="checkbox"/> EDF Report
Relinquished by:	Received by:	Date:	Time:		<input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Matt Paulus
Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062

RECEIVED
OCT 17 2005

Certificate ID: 45474 - 10/11/2005 2:15:40 PM

Order Number: 45474
Project Name: Don Lindsay
Project Number: IA220

Date Received: 09/26/2005

Certificate of Analysis - Final Report

On September 26, 2005, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	EDF TPH-Extractable EPA 8260B EPA 624 TPH as Gasoline - GC-MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Remediation Risk Management-SC
2560 Soquel Ave., Suite 202
Santa Cruz, CA 95062
Attn: Matt Paulus

Date Received: 9/26/2005
Project ID: IA220
Project Name: Don Lindsay

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 45474-001 Sample ID: MW-1

Matrix: Liquid Sample Date: 9/26/2005 11:35 AM

EPA 3510C EPA 8015 MOD. (Extractable)

TPH-Extractable

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoddard) (C8-C18).	190		1.0	50	µg/L	9/26/2005	DW050926A	9/28/2005	DW050926A

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	39.2	22 - 133

Analyzed by: JHsiang

Reviewed by: dba

EPA 5030C EPA 8260B EPA 624

8260Petroleum

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	98.8	70 - 130
Dibromofluoromethane	84.2	70 - 130
Toluene-d8	122	70 - 130

Analyzed by: TAF

Reviewed by: MaiChiTu

EPA 5030C GC-MS

TPH as Gasoline - GC-MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	560		1.0	25	µg/L	N/A	N/A	10/7/2005	WM2051007

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111	70 - 130
Dibromofluoromethane	88.2	70 - 130
Toluene-d8	123	70 - 130

Analyzed by: TAF

Reviewed by: MaiChiTu

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Remediation Risk Management-SC
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Santa Cruz, CA 95062
Attn: Matt Paulus

Date Received: 9/26/2005
Project ID: IA220
Project Name: Don Lindsay

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 45474-002

Sample ID: MW-2

Matrix: Liquid Sample Date: 9/26/2005 10:55 AM

EPA 3510C EPA 8015 MOD. (Extractable)

TPH-Extractable

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoddard)	ND		1.0	50	µg/L	9/26/2005	DW050926A	9/28/2005	DW050926A

Surrogate Surrogate Recovery Control Limits (%)
o-Terphenyl 54.5 22 - 133

Analyzed by: JHsiang
Reviewed by: dba

EPA 5030C EPA 8260B EPA 624

8260Petroleum

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/10/2005	WM1051010
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/10/2005	WM1051010
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/10/2005	WM1051010
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/10/2005	WM1051010

Surrogate Surrogate Recovery Control Limits (%)
4-Bromofluorobenzene 99.7 70 - 130
Dibromofluoromethane 122 70 - 130
Toluene-d8 107 70 - 130

Analyzed by: XBian
Reviewed by: MaiChiTu

EPA 5030C GC-MS

TPH as Gasoline - GC-MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	10/10/2005	WM1051010

Surrogate Surrogate Recovery Control Limits (%)
4-Bromofluorobenzene 106 70 - 130
Dibromofluoromethane 111 70 - 130
Toluene-d8 105 70 - 130

Analyzed by: XBian
Reviewed by: MaiChiTu

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Remediation Risk Management-SC
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Santa Cruz, CA 95062
Attn: Matt Paulus

Date Received: 9/26/2005
Project ID: IA220
Project Name: Don Lindsay

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 45474-003 Sample ID: MW-3

Matrix: Liquid Sample Date: 9/26/2005 10:25 AM

EPA 3510C EPA 8015 MOD. (Extractable)

TPH-Extractable

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoddard)	ND		1.0	50	µg/L	9/26/2005	DW050926A	9/28/2005	DW050926A

Surrogate
o-Terphenyl

Surrogate Recovery
54.4

Control Limits (%)
22 - 133

Analyzed by: JHsiang

Reviewed by: dba

EPA 5030C EPA 8260B EPA 624

8260Petroleum

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007

Surrogate

Surrogate Recovery

Control Limits (%)

Analyzed by: TAF

4-Bromofluorobenzene

80.2

70 - 130

Reviewed by: MaiChiTu

Dibromofluoromethane

76.9

70 - 130

Toluene-d8

104

70 - 130

EPA 5030C GC-MS

TPH as Gasoline - GC-MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	10/7/2005	WM2051007

Surrogate

Surrogate Recovery

Control Limits (%)

Analyzed by: TAF

4-Bromofluorobenzene

89.7

70 - 130

Reviewed by: MaiChiTu

Dibromofluoromethane

80.6

70 - 130

Toluene-d8

105

70 - 130

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Santa Cruz, CA 95062
Attn: Matt Paulus

Date Received: 9/26/2005
Project ID: IA220
Project Name: Don Lindsay

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 45474-004

Sample ID: MW-4

Matrix: Liquid Sample Date: 9/26/2005 12:10 PM

EPA 3510C EPA 8015 MOD. (Extractable)

TPH-Extractable

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoddard)	ND		1.0	50	µg/L	9/26/2005	DW050926A	9/28/2005	DW050926A

Surrogate
o-Terphenyl

Surrogate Recovery
45.0

Control Limits (%)
22 - 133

Analyzed by: JHsiang
Reviewed by: dba

EPA 5030C EPA 8260B EPA 624

8260Petroleum

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007

Surrogate
4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

Surrogate Recovery
80.4
78.8
104

Control Limits (%)
70 - 130
70 - 130
70 - 130

Analyzed by: TAF
Reviewed by: MaiChiTu

EPA 5030C GC-MS

TPH as Gasoline - GC-MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	10/7/2005	WM2051007

Surrogate
4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d8

Surrogate Recovery
90.0
82.6
105

Control Limits (%)
70 - 130
70 - 130
70 - 130

Analyzed by: TAF
Reviewed by: MaiChiTu

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Attn: Matt Paulus

Date Received: 9/26/2005
Project ID: IA220
Project Name: Don Lindsay

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 45474-005 Sample ID: MW-5

Matrix: Liquid Sample Date: 9/26/2005 12:35 PM

EPA 3510C EPA 8015 MOD. (Extractable)								TPH-Extractable	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Mineral Spirits (Stoddard)	ND		1.0	50	µg/L	9/26/2005	DW050926A	9/28/2005	DW050926A
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: JHsiang	
o-Terphenyl	35.7		22 - 133					Reviewed by: dba	

EPA 5030C EPA 8260B EPA 624								8260Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/7/2005	WM2051007
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	81.4		70 - 130					Reviewed by: MaiChiTu	
Dibromofluoromethane	74.9		70 - 130						
Toluene-d8	105		70 - 130						

EPA 5030C GC-MS								TPH as Gasoline - GC-MS	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	10/7/2005	WM2051007
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	91.1		70 - 130					Reviewed by: MaiChiTu	
Dibromofluoromethane	78.5		70 - 130						
Toluene-d8	106		70 - 130						

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Method Blank - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable

QC/Prep Batch ID: DW050926A

Validated by: dba - 09/29/05

QC/Prep Date: 9/26/2005

Parameter	Result	DF	PQLR	Units
TPH as Mineral Spirits (Stoddard)	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
o-Terphenyl	57.2	22 - 133

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable

QC/Prep Batch ID: DW050926A

Reviewed by: dba - 09/29/05

QC/Prep Date: 9/26/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	530	µg/L	53.0	40 - 138

*** Mineral Spirits.

Surrogate	% Recovery	Control Limits
o-Terphenyl	64.3	22 - 133

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	607	µg/L	60.7	14	25.0	40 - 138

*** Mineral Spirits.

Surrogate	% Recovery	Control Limits
o-Terphenyl	70.5	22 - 133

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Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051007

Validated by: MaiChiTu - 10/11/05

QC Batch Analysis Date: 10/7/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	102	70 - 130
Toluene-d8	106	70 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2051007

Reviewed by: MaiChiTu - 10/11/05

QC Batch ID Analysis Date: 10/7/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.6	µg/L	92.9	70 - 130
Benzene	<0.50	20	19.0	µg/L	95.0	70 - 130
Chlorobenzene	<0.50	20	21.4	µg/L	107	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.3	µg/L	86.5	70 - 130
Toluene	<0.50	20	18.8	µg/L	94.0	70 - 130
Trichloroethene	<0.50	20	21.9	µg/L	110	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8	102	70 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	19.7	µg/L	98.7	6.1	25.0	70 - 130
Benzene	<0.50	20	19.8	µg/L	99.1	4.2	25.0	70 - 130
Chlorobenzene	<0.50	20	22.3	µg/L	112	4.1	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	14.3	µg/L	71.7	19	25.0	70 - 130
Toluene	<0.50	20	21.0	µg/L	105	11	25.0	70 - 130
Trichloroethene	<0.50	20	23.5	µg/L	118	7.1	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	96.7	70 - 130
Dibromofluoromethane	90.8	70 - 130
Toluene-d8	106	70 - 130

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Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1051010

Validated by: MaiChiTu - 10/11/05

QC Batch Analysis Date: 10/10/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	89.8	70 - 130
Dibromofluoromethane	105	70 - 130
Toluene-d8	105	70 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1051010

Reviewed by: MaiChiTu - 10/11/05

QC Batch ID Analysis Date: 10/10/2005

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	21.0	µg/L	105	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.1	µg/L	90.5	70 - 130
Toluene	<0.50	20	21.0	µg/L	105	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	90.8	70 - 130
Dibromofluoromethane	107	70 - 130
Toluene-d8	96.3	70 - 130

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	18.6	µg/L	93.0	12	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	16.0	µg/L	80.0	12	25.0	70 - 130
Toluene	<0.50	20	19.0	µg/L	95.0	10	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	89.3	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8	97	70 - 130

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Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2051007

Validated by: MaiChiTu - 10/11/05

QC Batch Analysis Date: 10/7/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	114	70 - 130
Dibromofluoromethane	107	70 - 130
Toluene-d8	107	70 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2051007

Reviewed by: MaiChiTu - 10/11/05

QC Batch ID Analysis Date: 10/7/2005

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	250	237	µg/L	94.7	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	115	70 - 130
Dibromofluoromethane	107	70 - 130
Toluene-d8	105	70 - 130

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	250	217	µg/L	86.7	8.8	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	106	70 - 130
Dibromofluoromethane	91.9	70 - 130
Toluene-d8	116	70 - 130

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Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM1051010

Validated by: MaiChiTu - 10/11/05

QC Batch Analysis Date: 10/10/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	95.3	70 - 130
Dibromofluoromethane	101	70 - 130
Toluene-d8	102	70 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM1051010

Reviewed by: MaiChiTu - 10/11/05

QC Batch ID Analysis Date: 10/10/2005

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	143	µg/L	114	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.4	70 - 130
Dibromofluoromethane	95.7	70 - 130
Toluene-d8	104	70 - 130

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	142	µg/L	114	0.21	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.6	70 - 130
Dibromofluoromethane	95	70 - 130
Toluene-d8	103	70 - 130

