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**3:57 pm, Oct 13, 2011**

Alameda County  
Environmental Health

Reference: Groundwater Monitoring Report  
Rodding Cleaning Services  
2585 Nicholson Street, San Leandro, CA  
Fuel Leak Case No. RO00000020  
Versar Project No. 104422.4422.007

**PERJURY STATEMENT**

As the Responsible Party (RP) for this 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.

A handwritten signature in cursive script that reads "Fred Schifferle".

Fred Schifferle - Manager, Sketchley Trust  
Responsible Party

• SACRAMENTO AREA OFFICE •

7844 MADISON AVENUE, SUITE 167 • FAIR OAKS, CA 95628 • TELEPHONE (916) 962-1612 FAX (916) 962-2678



December 24, 2009

Mr. Fred Schifferle  
Vice President  
Bank of America, N.A.  
2000 Clayton Road  
Building D  
Concord, California 94520-2425

Reference: Groundwater Monitoring Report November 2009  
2585 Nicholson Street in San Leandro, California  
ES# 305582  
Versar Project No. 104422.4422.004

Dear Mr. Schifferle:

Versar, Inc. (Versar) has prepared this groundwater monitoring report on behalf of US Trust, Bank of America, N.A. (Bank of America) and the Sketchley Trust, documenting work performed at the property located at 2585 Nicholson Street in San Leandro, California (Site). Figures 1 and 2 in Attachment I, present the Site location and Site layout, respectively.

## **Background**

A release of petroleum constituents was discovered at the Site during removal of underground storage tanks (USTs) in 1991. Subsequently, Versar and others have investigated soils and groundwater beneath the Site, and performed extensive groundwater monitoring. The results of the groundwater monitoring and data evaluation had determined constituents identified in groundwater appear to be naturally degrading over time, and pose no risk to Site occupants in an industrial setting (the San Francisco Regional Water Quality Control Board Environmental Screening Limit (ESL) for indoor air quality protection from benzene in groundwater is 1,800 micrograms per liter [ug/L] benzene.

In response, the Alameda County Health Care Services (ACHCS) has considered granting closure for the Site. In the interim, the groundwater monitoring program has been reduced to one well (MW-1) on a semi-annual basis. Groundwater monitoring at the Site was last performed in May 2009.

## **November 2009 Results**

Monitoring well MW-1 was sampled on November 24, 2009. Depth to groundwater measurements were recorded from wells MW-1, MW-2, MW-4 and MW-5 on December 15, 2009. Current and historic analytical results from all Site monitoring wells are presented in Table 1 of Attachment I. Groundwater elevation data is presented in Table 2 of Attachment I. A monitoring well purge table documenting field measurements during sampling is presented in Attachment II.

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The groundwater sample from MW-1 was analyzed for total petroleum hydrocarbons (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Methods 8260B. Laboratory analytical data sheets are included in Attachment III. The methodology and protocol followed for the collection of the groundwater sample during this groundwater sampling event are presented in Attachment IV, Decontamination and Groundwater Monitoring Well Sampling Procedures.

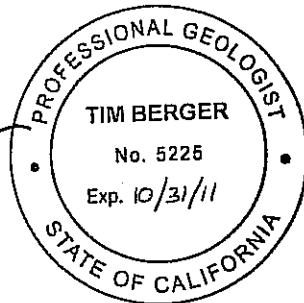
As shown in Table 1, analytical results for TPHg and benzene in MW-1 in November 2009 have slightly decreased to the previous (May 2009) results. TPHg concentrations over time appear to trend downward. The measured direction of groundwater flow appears to be northeasterly, at a gradient of 0.001; the groundwater flow direction and gradient are presented in Figure 3 of Attachment I. Groundwater elevation is at a high point this quarter.

Versar appreciates this opportunity to provide professional environmental services to Bank of America. If you have any questions, please contact me at (916) 863-9323 and [tberger@versar.com](mailto:tberger@versar.com).

Prepared by:



Tim Berger, P.G.  
Program Manager  
Southwest Region



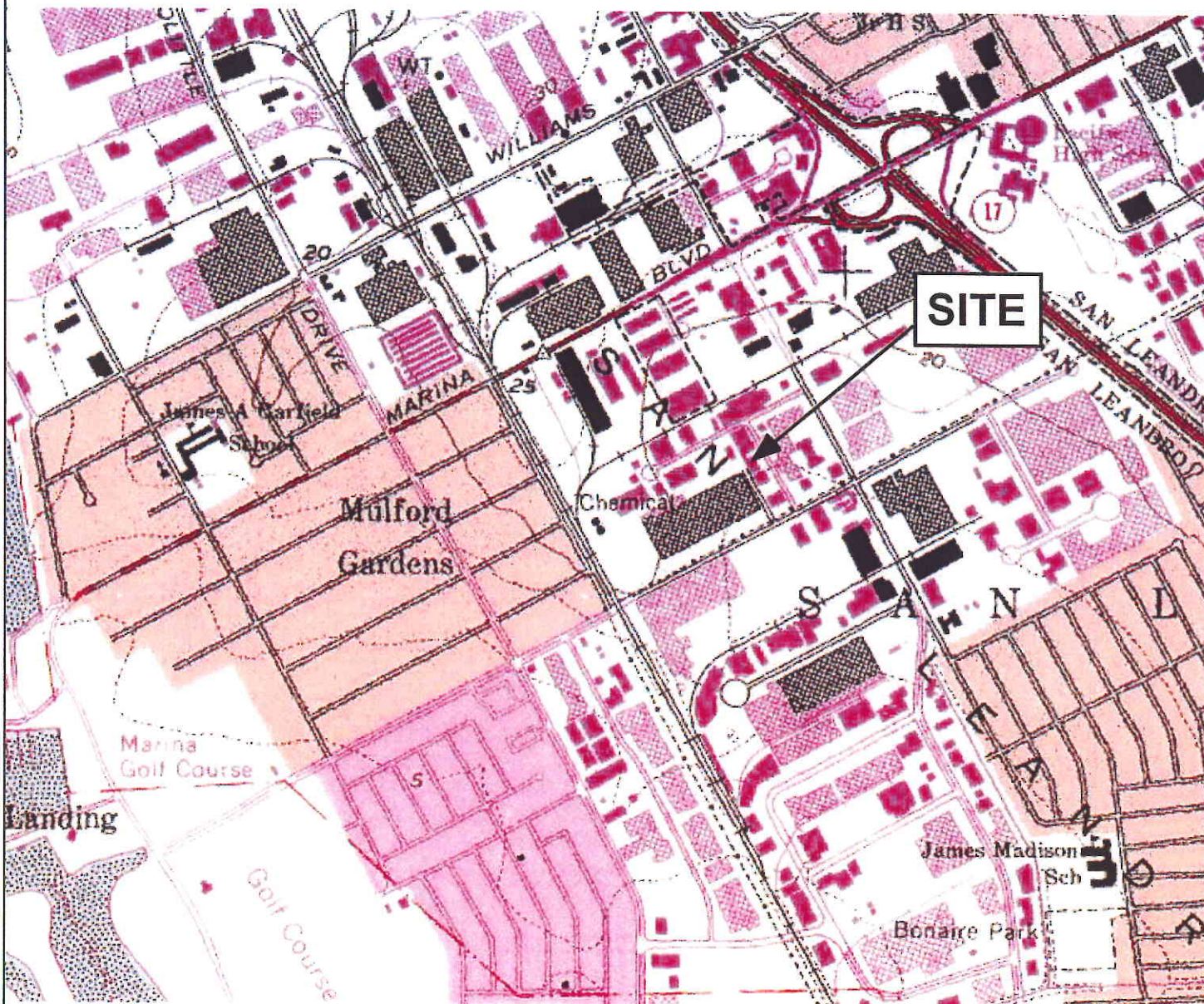
- Attachment I - Figures and Tables
- Attachment II - Monitoring Well Purge Table
- Attachment III - Laboratory Analytical Data Reports
- Attachment IV - Decontamination and Groundwater Monitoring Well Sampling Procedures

cc: Mark E. Detterman - Alameda County Environmental Health  
John Kemp - City of San Leandro Environmental Services  
Randy Muller - Bank of America  
Mesha Lewis - US Trust/Bank of America



**ATTACHMENT I**

**Figures and Tables**



Ref. USGS 7.5 Minute Topographical Quadrangle Maps;  
San Leandro, Calif. c. 1959 Photorevised 1998

Dr. By: TWB  
Date: 6/20/08  
Scale: 1 inch=2,000 feet  
Versar Project No. 4422-006  
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**SITE LOCATION**  
2585 Nicholson Street  
San Leandro, California

**Figure 1**



Republic Avenue

Nicholson Street

Commercial Building

Crane Works, Inc.

Concrete Paving

AC Paving

AC Paving

Commercial Building

Fence

MW-5

MW-1

MW-3

MW-2

MW-4

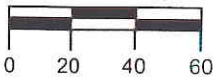
**LEGEND:**



Monitoring Well Location and Designation

MW-1

(Scale - Feet)

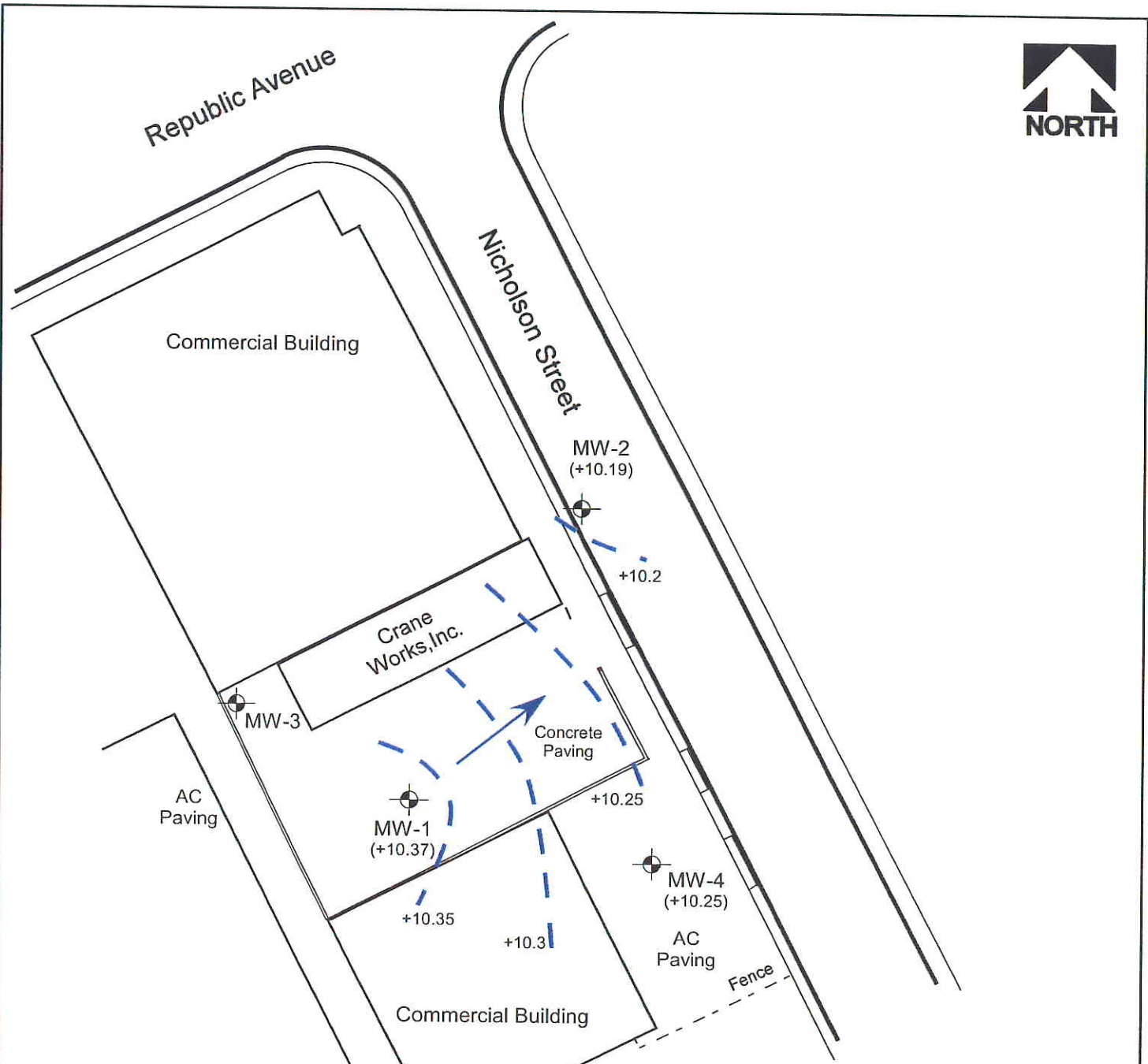


Dr. By: TWB
Date: 06/20/2008
Scale: 1 inch = 60 feet
Versar Project No. 4422-006
Path/File : PIBOFA\SanLean\Report\Fig2





 **VERSAR**  
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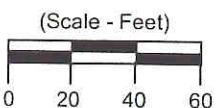
**SITE LAYOUT MAP**  
2585 Nicholson Street  
San Leandro, California

Figure  
2



**LEGEND:**

-  Monitoring Well Location, Elevation and Designation
  -  MW-1 (+10.37)
  -  +10.35
  -  Inferred Direction of Groundwater Flow
- Gradient: 0.001 feet per foot (ft/ft)



Dr. By: NH
Date: 12/16/2009
Scale: 1 inch = 60 feet
Versar Project No. 4422-006
Path/File : P:\BOFA\SanLeandro\Report\Fig2



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## GROUNDWATER FLOW DIRECTION & GRADIENT

2585 Nicholson Street  
San Leandro, California

Figure  
3

Table 1  
Analytical Results for Groundwater Samples  
2585 Nicholson Street  
San Leandro, California



Monitoring Well No.	Date	Chemicals of Concern (In µg/L)								
		TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)	TPH-K (µg/L)	TPH-SS (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
ESL		210	210	210	210	210	1	150	300	1,800
MW-1	Jun-92	10,000	ND	-	-	-	110	81	62	280
	Nov-92	9,800	ND	-	-	-	23	14	22	96
	Apr-93	18,000	560	ND	ND	370	42	47	50	190
	Jul-93	27,000	ND	ND	ND	ND	40	45	63	190
	Dec-93	7,800	3,800	ND	ND	ND	13	16	20	77
	Mar-94	280,000	620	ND	ND	3,300	970	880	620	1,700
	Jun-94	8,500	ND	ND	ND	ND	23	13	8.5	19
	Sep-94	2,400	52	ND	ND	ND	5.3	2.6	2.5	6
	Dec-94	4,800	1300	ND	ND	1,000	32	32	16	50
	Apr-95	74,000	3,700	ND	ND	570	320	350	350	940
	Sep-95	33,000	46,000	ND	ND	4,900	140	270	260	1,100
	May-99	8,100	ND	ND	-	-	1,400	31	82	360
	Jul-99	3,500	1,700	-	-	-	252	23	43	179
	Oct-99	4,900	-	-	-	-	270	34	<5	370
	Jan-00	22,400	<500	-	-	-	1,300	402	483	2,490
	Apr-00	13,000	-	-	-	-	1,130	226	335	1,410
	Jul-00	28,400	<50	<500	-	-	1,470	190	299	967
	Oct-00	12,900	-	-	-	<1,000	1,000	197	353	1,400
	Jan-01	17,800	-	-	-	-	957	146	353	1,060
	Apr-01	13,000	<50	-	-	-	1,200	170	450	1,300
	Oct-01	1,800	-	-	-	-	210	20	47	82
	Apr-02	3,800	-	-	-	-	380	37	80	120
	Jan-03	14,000	-	-	-	-	1,200	130	250	310
	Nov-03	13,000	-	-	-	-	1,900	92	210	190
	Apr-04	9,600	-	-	-	-	1,200	68	410	260
	Nov-04	5,500	-	-	-	-	1,100	28	97	72.8
May-05	2,000	-	-	-	-	130	5.5	14	9.1	
May-08	5,200	-	-	-	-	690	63	76	51	
Nov-08	3,100	-	-	-	-	560	10	45	15	
May-09	3,600	-	-	-	-	420	12	42	11	
Nov-09	930	-	-	-	-	150	<2.5	9.4	2.5	
MW-2	Apr-99	ND	ND	ND	-	-	ND	ND	ND	ND
	Jul-99	<100	<100	-	-	-	<1.0	<1.0	<1.0	<1.0
	Oct-99	<100	-	-	-	-	<1.0	<1.0	<1.0	<1.0
	Jan-00	118	-	-	-	-	0.7	<0.5	<0.5	<0.5
	Apr-00	<50	-	-	-	-	0.5	<0.5	<0.5	<0.5
	Jul-00	<400	-	-	-	-	0.8	<0.5	<0.5	<0.5
	Oct-00	<50	-	-	-	-	<0.5	<0.5	<0.5	<1.0
	Jan-01	104	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Apr-01	160	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Oct-01	-	-	-	-	-	-	-	-	-
	Apr-02	-	-	-	-	-	-	-	-	-
	Jan-03	-	-	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	-	-	-
	Apr-04	-	-	-	-	-	-	-	-	-
	Nov-04	-	-	-	-	-	-	-	-	-
	May-05	-	-	-	-	-	-	-	-	-
May-08	-	-	-	-	-	-	-	-	-	
Nov-08	-	-	-	-	-	-	-	-	-	
May-09	-	-	-	-	-	-	-	-	-	
Nov-09	-	-	-	-	-	-	-	-	-	
MW-3	Apr-99	ND	540	ND	-	-	ND	ND	ND	ND
	Jul-99	300	<100	-	-	-	<1.0	<1.0	<1.0	<1.0
	Oct-99	230	-	-	-	-	<1.0	<1.0	<1.0	<1.0
	Jan-00	163	<50	-	-	-	0.8	<0.5	<0.5	<0.5
	Apr-00	90	-	-	-	-	0.7	<0.5	<0.5	<0.5
	Jul-00	<400	-	-	-	-	2.0	<0.5	<0.5	<0.5
	Oct-00	<50	-	-	-	-	<0.5	<0.5	<0.5	<1.0
	Jan-01	62	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Apr-01	62	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Oct-01	-	-	-	-	-	-	-	-	-
	Apr-02	-	-	-	-	-	-	-	-	-
	Jan-03	-	-	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	-	-	-
	Apr-04	-	-	-	-	-	-	-	-	-
	Nov-04	-	-	-	-	-	-	-	-	-
	May-05	-	-	-	-	-	-	-	-	-
May-08	-	-	-	-	-	-	-	-	-	
Nov-08	-	-	-	-	-	-	-	-	-	
May-09	-	-	-	-	-	-	-	-	-	
Nov-09	-	-	-	-	-	-	-	-	-	
MW-4	Apr-99	110	ND	ND	-	-	ND	ND	ND	ND
	Jul-99	120	<100	-	-	-	<1.0	<1.0	<1.0	<1.0
	Oct-99	<100	-	-	-	-	<1.0	<1.0	<1.0	<1.0
	Jan-00	106	-	-	-	-	0.9	<0.5	<0.5	<0.5
	Apr-00	99	-	-	-	-	1.0	<0.5	<0.5	<0.5
	Jul-00	-	-	-	-	-	-	-	-	-
	Oct-00	139	-	-	-	-	0.6	<0.5	<0.5	<1.0
	Jan-01	85	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Apr-01	130	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Oct-01	-	-	-	-	-	-	-	-	-
	Apr-02	-	-	-	-	-	-	-	-	-
	Jan-03	-	-	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	-	-	-
	Apr-04	-	-	-	-	-	-	-	-	-
	Nov-04	-	-	-	-	-	-	-	-	-
	May-05	-	-	-	-	-	-	-	-	-
May-08	-	-	-	-	-	-	-	-	-	
Nov-08	-	-	-	-	-	-	-	-	-	
May-09	-	-	-	-	-	-	-	-	-	
Nov-09	-	-	-	-	-	-	-	-	-	
MW-5	Apr-99	270	ND	ND	-	-	ND	ND	ND	ND
	Jul-99	570	<100	-	-	-	<1.0	<1.0	<1.0	<1.0
	Oct-99	540	-	-	-	-	<1.0	<1.0	<1.0	<1.0
	Jan-00	231	-	-	-	-	1.9	<0.5	<0.5	<0.5
	Apr-00	353	-	-	-	-	3.5	<0.5	<0.5	<0.5
	Jul-00	<400	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Oct-00	156	-	-	-	-	1.0	<0.5	<0.5	<1.0
	Jan-01	<50	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Apr-01	200	-	-	-	-	<0.5	<0.5	<0.5	<0.5
	Oct-01	-	-	-	-	-	-	-	-	-
	Apr-02	-	-	-	-	-	-	-	-	-
	Jan-03	-	-	-	-	-	-	-	-	-
	Nov-03	-	-	-	-	-	-	-	-	-
	Apr-04	-	-	-	-	-	-	-	-	-
	Nov-04	-	-	-	-	-	-	-	-	-
	May-05	-	-	-	-	-	-	-	-	-
May-08	-	-	-	-	-	-	-	-	-	
Nov-08	-	-	-	-	-	-	-	-	-	
May-09	-	-	-	-	-	-	-	-	-	
Nov-09	-	-	-	-	-	-	-	-	-	

Notes and Abbreviations:

- ESL = Environmental Screening Level (Commercial/Drinking Water), May 2008 San Francisco Regional Water Quality Control Board
- TPH-G = total petroleum hydrocarbons as gasoline.
- TPH-MO = total petroleum hydrocarbons as motor oil.
- TPH-D = total petroleum hydrocarbons as diesel.
- TPH-K = total petroleum hydrocarbons as kerosene.
- TPH-SS = total petroleum hydrocarbons as standard solvent.
- µg/L = micrograms per liter, equivalent to parts per billion (ppb).
- mg/L = milligrams per liter, equivalent to parts per million (ppm).
- ND = not detected at or above the methods reporting limit.
- = not analysed
- BOLD = exceeds ESL



Table 2  
Groundwater Elevation Data  
2585 Nicholson Street  
San Leandro, California

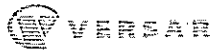
		Groundwater Monitoring Well					Hydraulic gradient magnitude (ft/ft)	General gradient direction
		MW-1	MW-2	MW-3	MW-4	MW-5		
Well casing elevation (feet amsl)		15.27	13.69	15.88	15.25	16.46	---	---
Apr 1999	Depth to groundwater (feet bgs)	5.33	3.76	5.88	5.40	6.64	0.001	Southeast
	Groundwater Elevation (feet amsl)	9.94	9.93	10.00	9.85	9.82		
Jul 1999	Depth to groundwater (feet bgs)	5.85	4.19	6.37	5.84	7.11	0.001	Southeast
	Groundwater Elevation (feet amsl)	9.42	9.50	9.51	9.41	9.35		
Oct 1999	Depth to groundwater (feet bgs)	5.45	4.06	5.79	5.60	6.68	0.002	Easterly
	Groundwater Elevation (feet amsl)	9.82	9.63	10.09	9.65	9.78		
Jan 2000	Depth to groundwater (feet bgs)	5.13	3.70	5.63	5.25	6.43	0.001	Easterly
	Groundwater Elevation (feet amsl)	10.14	9.99	10.25	10.00	10.03		
Apr 2000	Depth to groundwater (feet bgs)	4.95	3.61	5.41	5.06	6.15	0.002	Easterly
	Groundwater Elevation (feet amsl)	10.32	10.08	10.47	10.19	10.31		
Jul 2000	Depth to groundwater (feet bgs)	5.74	4.06	6.27	5.77	7.11	0.001	South southeast
	Groundwater Elevation (feet amsl)	9.53	9.63	9.61	9.48	9.35		
Oct 2000	Depth to groundwater (feet bgs)	5.35	3.85	5.75	5.28	6.56	---	---
	Groundwater Elevation (feet amsl)	9.92	9.84	10.13	9.97	9.90		
Jan 2001	Depth to groundwater (feet bgs)	5.70	4.00	6.21	5.73	6.70	0.001	South southeast
	Groundwater Elevation (feet amsl)	9.57	9.69	9.67	9.52	9.76		
Apr 2001	Depth to groundwater (feet bgs)	5.38	3.80	5.90	5.40	6.65	0.001	Southeast
	Groundwater Elevation (feet amsl)	9.89	9.89	9.98	9.85	9.81		
Oct 2001	Depth to groundwater (feet bgs)	5.79	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.48	--	--	--	--		
Apr 2002	Depth to groundwater (feet bgs)	5.41	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.86	--	--	--	--		
Jan 2003	Depth to groundwater (feet bgs)	5.83	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.44	--	--	--	--		
Nov 2003	Depth to groundwater (feet bgs)	5.47	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.80	--	--	--	--		
Apr 2004	Depth to groundwater (feet bgs)	5.40	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.87	--	--	--	--		
Nov 2004	Depth to groundwater (feet bgs)	5.60	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.67	--	--	--	--		
May 2005	Depth to groundwater (feet bgs)	5.27	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	10.00	--	--	--	--		
May 2008	Depth to groundwater (feet bgs)	5.60	--	--	--	--	---	---
	Groundwater Elevation (feet amsl)	9.67	--	--	--	--		
Nov 2006	Depth to groundwater (feet bgs)	5.73	--	--	5.75	7.10	0.001	Southerly
	Groundwater Elevation (feet amsl)	9.54	--	--	9.50	9.36		
May 2009	Depth to groundwater (feet bgs)	5.47	--	--	5.56	6.85	0.002	Southerly
	Groundwater Elevation (feet amsl)	9.80	--	--	9.69	9.61		
Dec 2009	Depth to groundwater (feet bgs)	4.90	3.50	--	5.00	6.12	0.001	Northeasterly
	Groundwater Elevation (feet amsl)	10.37	10.19	--	10.25	10.34		

Notes and Abbreviations:  
ft/ft = feet per foot  
amsl = above mean sea level



**ATTACHMENT II**

**Monitoring Well Purge Table**



# PURGE TABLE

WELL ID

MW-1SITE NAME: Roading Cleaning ServiceLOCATION: 2885 Nicholson St Samba, DroPROJECT NO.: 10422.4422.004DATE PURGED: 11/24/09PURGED/SAMPLED BY: N. HastingsDATE SAMPLED: 11/24/09

MASTER LOCK NUMBER:

TIME SAMPLED: 935DEPTH TO BOTTOM (feet): 18'DEPTH TO WATER (feet): 5.58WATER COLUMN HEIGHT (feet): 12.42CALCULATED PURGE (gallons): 55CASING VOLUME (gallons): 18.6ACTUAL PURGE (gallons): 55DEVELOPMENT  QUARTERLY  BIANNUAL  OTHER SAMPLE TYPE: Groundwater  Surface Water  Other CASING DIAMETER: 2"  3"  4"  5"  6"  8"  Other   
Casing Volume (gallons per foot): (0.16) (0.38) (0.66) (1.02) (1.50) (2.60)

## FIELD MEASUREMENTS

VOLUME (gal)	TIME (2400hr)	TEMP (degrees-F)	pH (units)	CONDUCTIVITY (umhos/cm)	DISSOLVED OXYGEN (mg/L)	REDOX	TURBIDITY (NTU)
0	834	63.44	6.76	773	1.72	<272.87	clear
10	842	64.13	6.60	774	0.64	<214.37	11
20	849	64.24	6.71	779	0.45	<243.87	11
30	856	64.31	6.83	780	0.39	<251.37	11
40	864	64.40	6.97	783	0.98	<247.97	11
50	912	64.38	6.97	789	0.35	<241.97	11
55	916	64.27	6.88	802	0.37	<241.77	11

## SAMPLE INFORMATION

SAMPLE DEPTH TO WATER (feet): 5.70 ANALYSES: TPH-9; BTEX80% RECHARGE:  YES  NO SAMPLE TURBIDITY: clearODOR: Strong SAMPLE BOTTLE/PRESERVATIVE: HCL

### PURGING EQUIPMENT

Centrifugal Pump     Bailer (Teflon)  
 Submersible Pump     Bailer (PVC or disposable)  
 Peristaltic Pump     Bailer (Stainless Steel)  
 Purge Pump  
 Other: \_\_\_\_\_

### SAMPLING EQUIPMENT

Centrifugal Pump     Bailer (Teflon)  
 Submersible Pump     Bailer (PVC or disposable)  
 Peristaltic Pump     Bailer (Stainless Steel)  
 Purge Pump  
 Other: \_\_\_\_\_

Comments: Strong Gas Odor w/ Purge water + Sample; slight sheen on purge water



**ATTACHMENT III**

**Laboratory Analytical Data Report**



**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mccampbell.com E-mail: main@mccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Versar  7844 Madison Ave. #167  Fair Oaks, CA 95621	Client Project ID: #104422.4422.004; Rodding Cleaning Service	Date Sampled: 11/24/09
	Client Contact: Nicole Hastings	Date Received: 11/24/09
	Client P.O.:	Date Reported: 12/01/09
		Date Completed: 12/01/09

**WorkOrder: 0911616**

December 01, 2009

Dear Nicole:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#104422.4422.004; Rodding Cleanin**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.



# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 0911616**

**ClientCode: VEFE**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

<b>Report to:</b>		<b>Bill to:</b>	<b>Requested TAT: 5 days</b>
Nicole Hastings	Email: NHastings@Versar.com	Lilly Mullins	
Versar	cc:	Versar	<b>Date Received: 11/24/2009</b>
7844 Madison Ave. #167	PO:	7844 Madison Ave. #167	<b>Date Printed: 11/24/2009</b>
Fair Oaks, CA 95621	ProjectNo: #104422.4422.004; Rodding Cleaning	Fair Oaks, CA 95621	
(916) 863-9360    FAX (916) 962-2678	Service	lmullins@versar.com	

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0911616-001	MW-1	Water	11/24/2009 9:35	<input type="checkbox"/>	A	A											

**Test Legend:**

1	8260VOC_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

**Prepared by: Ana Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



**Sample Receipt Checklist**

Client Name: **Versar** Date and Time Received: **11/24/2009 7:49:14 PM**  
Project Name: **#104422.4422.004; Rodding Cleaning Service** Checklist completed and reviewed by: **Ana Venegas**  
WorkOrder N°: **0911616** Matrix Water Carrier: EnviroTech (RC)

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
Chain of custody signed when relinquished and received? Yes  No   
Chain of custody agrees with sample labels? Yes  No   
Sample IDs noted by Client on COC? Yes  No   
Date and Time of collection noted by Client on COC? Yes  No   
Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
Shipping container/cooler in good condition? Yes  No   
Samples in proper containers/bottles? Yes  No   
Sample containers intact? Yes  No   
Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
Container/Temp Blank temperature Cooler Temp: 4.6°C NA   
Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted   
Sample labels checked for correct preservation? Yes  No   
Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
Samples Received on Ice? Yes  No   
(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted: Date contacted: Contacted by:

Comments:





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Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Versar  7844 Madison Ave. #167  Fair Oaks, CA 95621	Client Project ID: #104422.4422.004; Rodding Cleaning Service	Date Sampled: 11/24/09
	Client Contact: Nicole Hastings	Date Received: 11/24/09
	Client P.O.:	Date Extracted: 11/25/09
		Date Analyzed: 11/25/09

### Volatile Organics by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0911616

Lab ID	0911616-001A			Reporting Limit for DF =1	
Client ID	MW-1				
Matrix	W				
DF	1				S

Compound	Concentration				ug/kg	µg/L
TPH(g)	930				NA	50
Benzene	150				NA	0.5
Ethylbenzene	9.4				NA	0.5
Toluene	ND<2.5				NA	0.5
Xylenes	2.5				NA	0.5

### Surrogate Recoveries (%)

%SS1:	99			
%SS2:	103			
%SS3:	104			

### Comments

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 47267

WorkOrder 0911616

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 0911582-011B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	87.9	87.2	0.823	84.5	85.1	0.697	70 - 130	30	70 - 130	30
Benzene	ND	10	90.3	90.5	0.291	101	102	0.684	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	97.4	94.8	2.68	77.8	86.5	10.6	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	88.7	88.5	0.227	96.3	95.4	0.893	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	100	97.7	2.34	92.5	95.7	3.40	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	92.6	91.5	1.22	91.5	93.8	2.45	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	112	113	0.428	121	123	1.79	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	92	91.5	0.527	102	103	0.568	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	92.6	92.1	0.529	93.6	95.2	1.74	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	99	97.4	1.68	93.9	96.2	2.50	70 - 130	30	70 - 130	30
Toluene	ND	10	84.8	84.2	0.646	101	101	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	101	101	0	111	111	0	70 - 130	30	70 - 130	30
%SS1:	100	25	98	97	1.01	90	92	2.13	70 - 130	30	70 - 130	30
%SS2:	105	25	100	100	0	106	106	0	70 - 130	30	70 - 130	30
%SS3:	105	2.5	99	100	0.240	97	96	1.62	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 47267 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0911616-001A	11/24/09 9:35 AM	11/25/09	11/25/09 3:57 AM	0911616-001A	11/24/09 9:35 AM	11/25/09	11/25/09 3:06 PM

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

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

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**ATTACHMENT IV**

**Decontamination and Groundwater  
Monitoring Well Sampling Procedures**



## **1.0 DECONTAMINATION PROCEDURES**

The decontamination procedures for non-dedicated field equipment and well development/purging equipment are given below. These procedures are followed during all field activities.

1. Non-dedicated well development, purging, and sampling equipment is carefully pre-cleaned prior to each use, as follows:
  - a. Carefully brush off any loose foreign debris with a soft bristle brush.
  - b. Rinse the equipment thoroughly in clean water.
  - c. Wash the equipment in a non-phosphate detergent bath.
  - d. Rinse thoroughly in clean water.
  - e. Rinse thoroughly with deionized water.
  - f. Air dry in a dust-free environment.
  - g. Store in unused plastic bags or other suitable cover until use.
2. Clean disposable gloves are worn by all field personnel when handling decontaminated equipment.

## **2.0 COLLECTION OF SAMPLES**

### **2.1 Groundwater Sampling**

Groundwater samples are collected for laboratory analysis using the procedures given below.

1. Measure the water levels (if any) in the well using a decontaminated measuring device. All measurements must be made to the nearest 0.01 foot, and measured relative to the top of the casing. Record the depth of the water in the field notebook.
2. Begin purging the well by inserting a purge pump into the PVC monitoring well casing and carefully lower it into the well. Take care to avoid agitating and aerating the fluid column in the well.
3. Measure the temperature, pH, conductivity, and turbidity. Record these and all subsequent measurements in the field notebook.
4. Continue purging the well (a minimum of three well volumes) until the temperature, pH, conductivity, and turbidity have stabilized, or the well is dry.
5. Inspect the disposable bailer to ensure that the bottom valve assembly is working correctly.



6. When the water has recovered to 80 percent of the original level, carefully lower a new disposable bailer into the well and recover groundwater samples.
7. Slowly withdraw the bailer and transfer the water samples to sampling containers.
8. Fill the appropriate sample containers by releasing water from the bailer via the bottom emptying device with a minimum of agitation. The most volatile parameters are collected first, proceeding to the least volatile parameters.
9. Place the purge water in a DOT-approved 55-gallon drums.

### **3.0 ANALYSIS OF SAMPLES**

Samples are submitted to a California state-certified laboratory for analysis.

### **4.0 SAMPLE HANDLING**

#### **4.1 Sample Containers, Preservation, and Holding Times**

All samples are collected, placed in containers, preserved, and analyzed within the time constraints with applicable local, provincial, and federal procedures. All sample containers are precleaned in accordance with prescribed EPA methods. A custody seal is placed around all sample container lids to prevent leaks and unauthorized tampering with individual samples following collection and prior to the time of analysis.

#### **4.2 Sample Tracking and Management**

All samples are tracked using a standard chain-of-custody form. The chain of custody record includes the following information:

1. Sample number
2. Signature of collector
3. Date and time of collection
4. Sample collection location
5. Sample type
6. Signature of persons involved in the chain-of-possession
7. Inclusive dates of possession



8. Analytical parameters
9. Pertinent field observations

The custody record is completed using waterproof ink. Corrections are made by drawing a line through, initialing the error, and then entering the correct information.

Custody of the samples begins at the time of sample collection and are maintained by the sampling team supervisor until samples are relinquished for shipment to the laboratory, or until samples are hand-delivered to the designated laboratory sample custodian. Partial sample sets being accumulated for hand-delivery to the laboratory are stored in coolers with chain-of-custody records sealed in plastic bags and placed in the cooler with the sample sets.