

Quarterly Groundwater Monitoring Report—2<sup>nd</sup> Quarter 2008

German Autocraft  
301 E. 14<sup>th</sup> Street  
San Leandro, California

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Alameda County  
Environmental Health

Global ID No. T0600100639  
AC LOP Case # 2783

Prepared For

Mr. Seung Lee  
German Autocraft  
San Leandro, CA 95070

Prepared By



Date of Report: June 30, 2008



June 30, 2008

German Autocraft  
301 E. 14<sup>th</sup> Street  
San Leandro, CA 94577

Attn: Mr. Seung Lee

Subject: Quarterly Groundwater Monitoring Report—2<sup>nd</sup> Quarter 2008

German Autocraft, AC LOP Case # 2783  
Global ID No. T0600100639

Dear Mr. Lee:

GWC is pleased to attach the Second Quarter 2008, *Quarterly Groundwater Monitoring Report*, which includes the analytical results for groundwater samples collected in June of 2008. GWC plans to continue quarterly groundwater sampling in accordance with Alameda County Department of Environmental Health (DEH) requirements. We have not yet received DEH comments/approval on our February 2008 Work Plans, so those associated activities do not currently have an implementation schedule.

If you have any questions or require further information, please do not hesitate to call us at (415) 665-6181.

Sincerely,

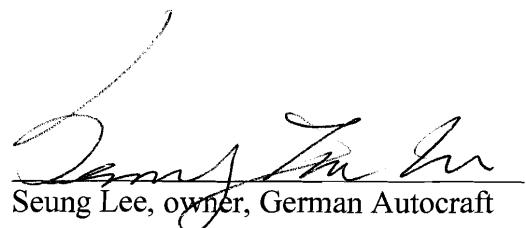
A handwritten signature in black ink that reads "Glen Reierstad, P.E."



Cc: Ms. Donna Dragos, DEH  
Mr. Steven Plunkett, DEH

**Perjury Statement**

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



A handwritten signature in black ink, appearing to read "Seung Lee". Below the signature, the text "Seung Lee, owner, German Autocraft" is printed in a smaller, sans-serif font.

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Appendix A	Groundwater Sample Collection Records
Appendix B	Chain of Custody Records and Laboratory Analytical Reports

## **1.0 Site Location and Background**

### **1.1 Site Location and Description**

The site is located at 301 E. 14<sup>th</sup> Street in San Leandro, CA, in a high-density, mixed-use neighborhood of residential and small commercial buildings. Figure 1 shows the site location. E. 14<sup>th</sup> Street is a busy thoroughfare, running approximately 25 degrees west of north-south. The site is approximately 90' x 120' with an area of about 10,800 square feet. The current site use is as an automobile repair facility.

### **1.2 Site Hydrogeologic Conditions**

The site is situated on mixed sediments about two miles east of San Francisco Bay. Site elevation is 48-50 feet above mean sea level, and groundwater elevation varies from 23-32 feet above mean sea level. Groundwater flow direction is typically W to WNW at a gradient of about 0.002 feet/ft. Figure 2 shows the general site layout and the locations of monitoring wells, both on-site and off-site.

### **1.3 Project History**

The fuel leak was discovered and the gasoline storage tank was removed in October of 1990. A site assessment, including installation of three initial monitoring wells, was performed in 1995, and further assessment work was done in July of 1998, including installation of seven additional monitoring wells. In 2001, three more monitoring wells were installed. To date, certain wells have been monitored quarterly and others monitored semi-annually or annually to maintain a record of groundwater conditions. No active remediation has taken place since removal of the gasoline storage tank. Table 1 summarizes well construction data known to GCI. We believe a follow-up file review will reveal more well information.

### **1.4 Recent Activities**

On December 5, 2007, a Corrective Action Plan was submitted to the ACEH website detailing how site cleanup might be accomplished, focusing on the core area of impacts. On February 22, 2008, Work Plans were submitted for a Soil Vapor Investigation and a Dual-phase, High-vacuum Soil Vapor Extraction with Air Sparging pilot test.

Wells MW-12, MW-13 and MW-14 were scheduled for sampling this quarter. In addition, wells MW-1, -2, -3, -4, -6, -8, -9, -10, -11 and -1A were also monitored for depth to groundwater. The backyard at 141 Farrelly was not accessible at this time.

## **2.0     Groundwater Monitoring Results**

### **2.1     Groundwater Elevation and Gradient**

Compared with historical results, the most recent groundwater elevation was on the lower side of the normal range for June. Historical June groundwater elevations average about 26 feet, but groundwater elevations this June were about 24 feet above mean sea level (see Table 3). The most recent flow direction is shown on Figure 3; on-site wells as usual reflect a more complex local gradient. Table 2 presents groundwater elevation data for June 11, 2008, and Table 3 presents a cumulative summary of elevation data.

### **2.2     Groundwater Sample Collection and Analysis**

This quarter's wells were monitored and sampled by experienced personnel in accord with standard practices. All samples were placed on ice and transported to a State-certified analytical laboratory for analysis. Well purge water was stored on-site pending analysis and disposal. The Well Sampling Reports are attached as Appendix A.

### **2.3     Groundwater Sample Analytical Results**

All the monitoring well samples tested positive for trace amounts of Petroleum Hydrocarbons as gasoline (TPHg) and the affiliated Volatile Organic Compounds (BTEX), with highest concentrations (6,200 µg/L TPHg) at MW-12. The distribution of contaminant values continues to correlate with the prevailing groundwater gradient. Table 4 presents groundwater analytical data for June 11, 2008, and Table 5 summarizes the historical groundwater analytical data.

## **3.0     Conclusions and Recommendations**

### **3.1     Conclusions**

All of the monitoring data are consistent with a historic release of gasoline from the subject site's former underground tank, and/or the associated fueling system. Concentrations of gasoline-related petroleum compounds are highest near the former tank location, demonstrated in historic testing, and directly down-gradient from that point. Concentrations drop off sharply with distance perpendicular from the prevailing groundwater flow direction. The wells tested this quarter had typical contaminant concentrations compared with historical values, with TPHg at MW-12 on the high end and MW-14 impacts on the low side.

In 18 years since the removal of the underground storage tank, there was some dissipation of the contaminants in the first few years, but there has been very little reduction in hydrocarbon concentrations in recent years at wells such as MW-1 and MW-4. GCI concludes that the contaminants have reached levels at which they are likely to

remain for the foreseeable future in the absence of remedial action, though there will likely continue to be some seasonal fluctuations in contaminant levels.

### **3.2 Recommendations**

Besides the DEH required monitoring of this case, GCI recommends a Dual-Phase Soil Vapor Extraction (DPE) test to assess the potential success of this proven technology as a remediation method for the core impact area at this site. Such a test may provide approximate cost data or may suggest the need to consider other technologies to remediate contaminants at the site. GCI submitted a Work Plan in February of 2008 for a five-day test but has yet to receive DEH approval to proceed. Off-site wells have significant access issues and would be unlikely to be viable for meaningful contaminant mass removal. However, if the pending soil vapor investigation finds an off-site concern, corresponding mitigation steps will be evaluated.

MW-12 was available this quarter, but it has frequently been difficult to access due to parked cars. We recommend that MW-1A be substituted for MW-12 when it is unavailable for sampling.

## **4.0 Quality Assurance and Professional Certification**

### **4.1 Quality Assurance**

All sampling was performed by a staff technician, skilled and experienced with groundwater monitoring well sampling procedures. Samples were stored on ice and sent promptly to a State-certified analytical laboratory. The laboratory is audited by the State certification program for maintaining quality control procedures and for record keeping. The chain-of-custody records and certified laboratory analytical reports are attached as Appendix B.

### **4.2 Professional Certification**

We declare, under penalty of perjury, that to the best of our knowledge, everything presented in this report is true and correct.

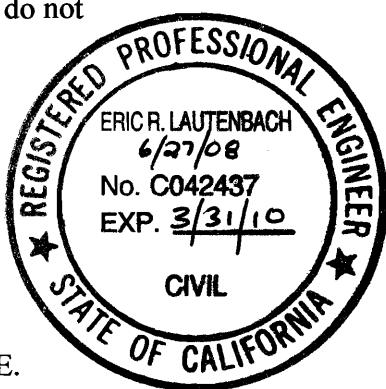
Should you have any questions or require supplemental information, please do not hesitate to contact us at (415) 661-6181.

Sincerely,

*Reierstad, P.E.*  
Glenn Reierstad, P.E.



*E. R. Lautenbach*  
Eric R. Lautenbach, P.E.



## **Figures**



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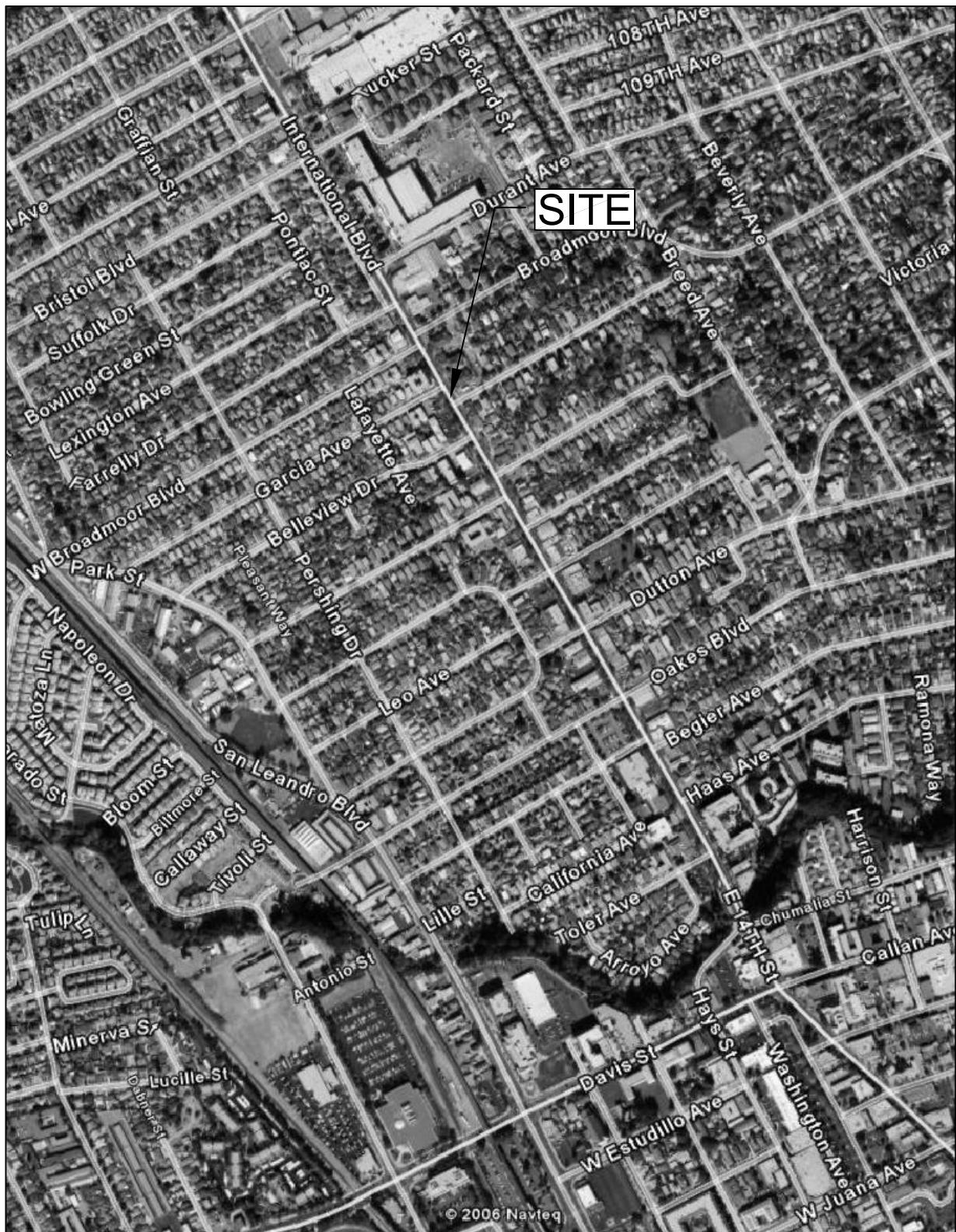


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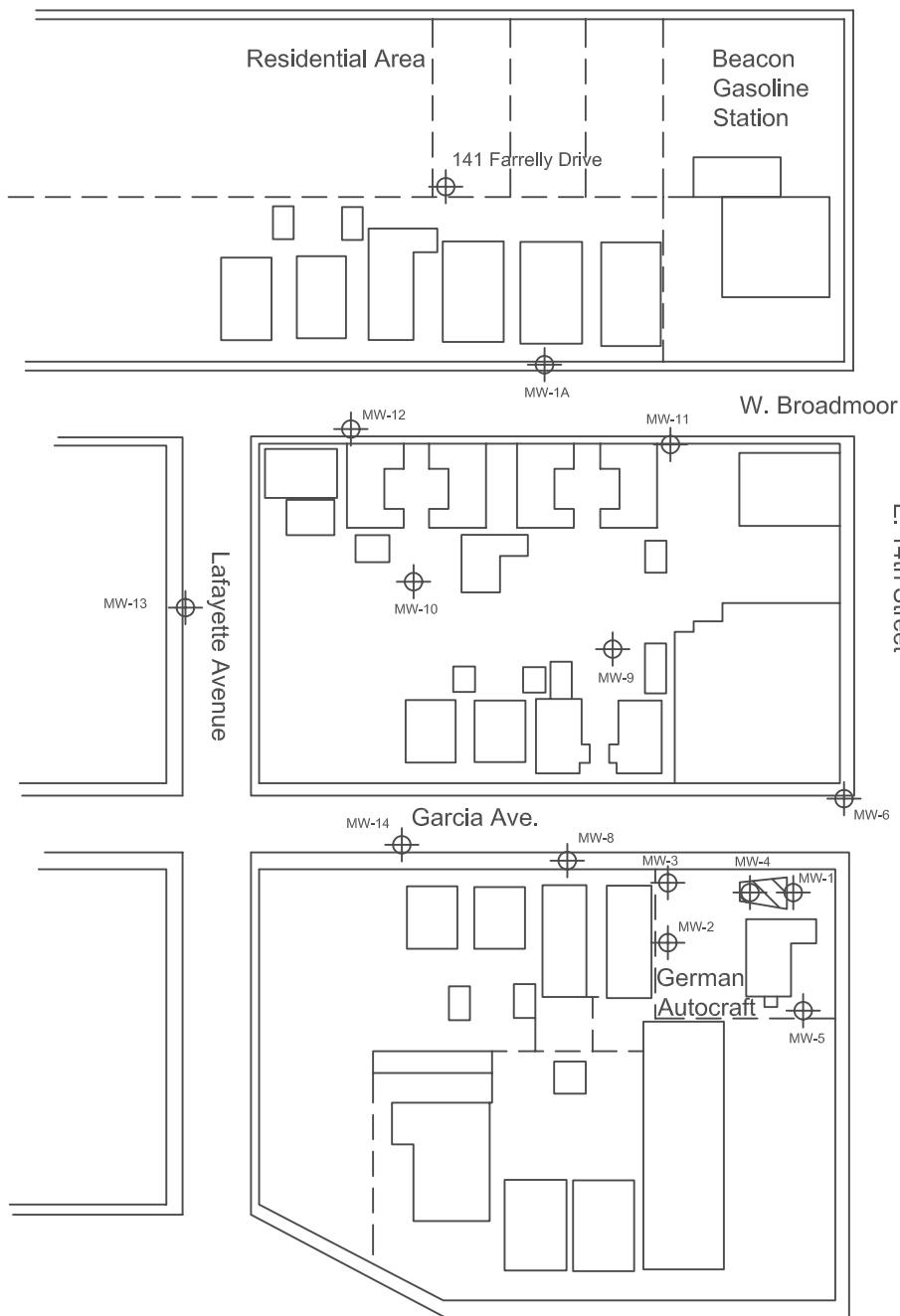
German Autocraft  
301 East 14th Street  
San Leandro, California

Figure 1  
Rev. B

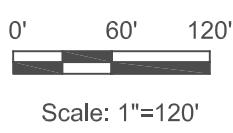
Site Area Map

10.01.06

### Farrelly Drive



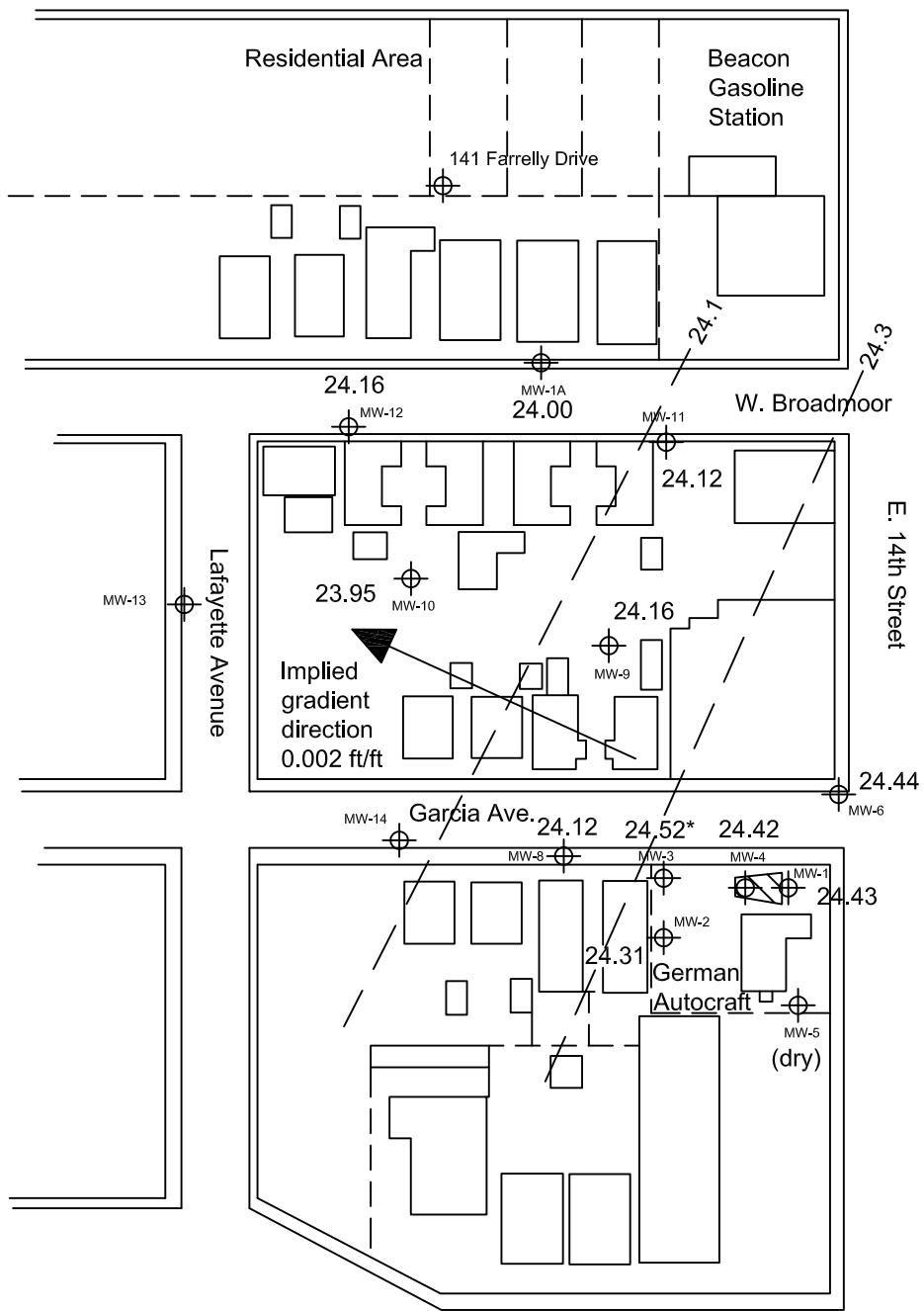
#### EXPLANATION:



- Streets/Buildings
- Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings



### Farrelly Drive



0' 60' 120'

Approx. Scale: 1"=120'

- Streets/Buildings
- Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings

#### Notes:

Wells with no elevations have not yet been found to have surveyed casings from GWC research.

\* Anomalous elevation not used in contouring.



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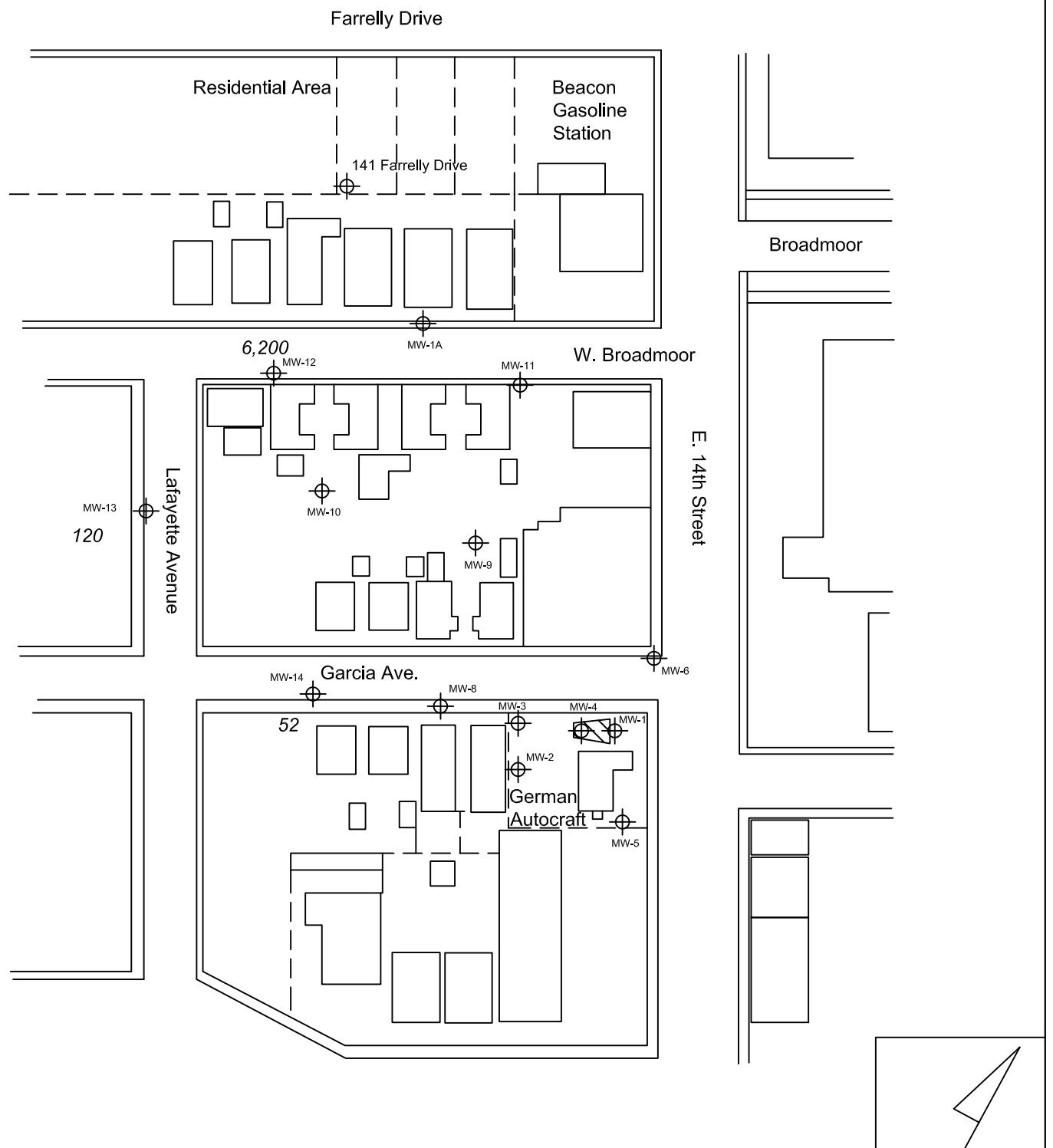
German Autocraft  
301 East 14th Street  
San Leandro, California

Figure 3

Rev. A

Groundwater Elevations and Contours

06.11.08



**EXPLANATION:**



Scale: 1"=120'

- Streets/Buildings
- ⊕ Groundwater Monitoring Well
- ▨ Former Tank Pit Areas
- Buildings

Concentrations in  $\mu\text{g/L}$ ; wells with no data not tested this event



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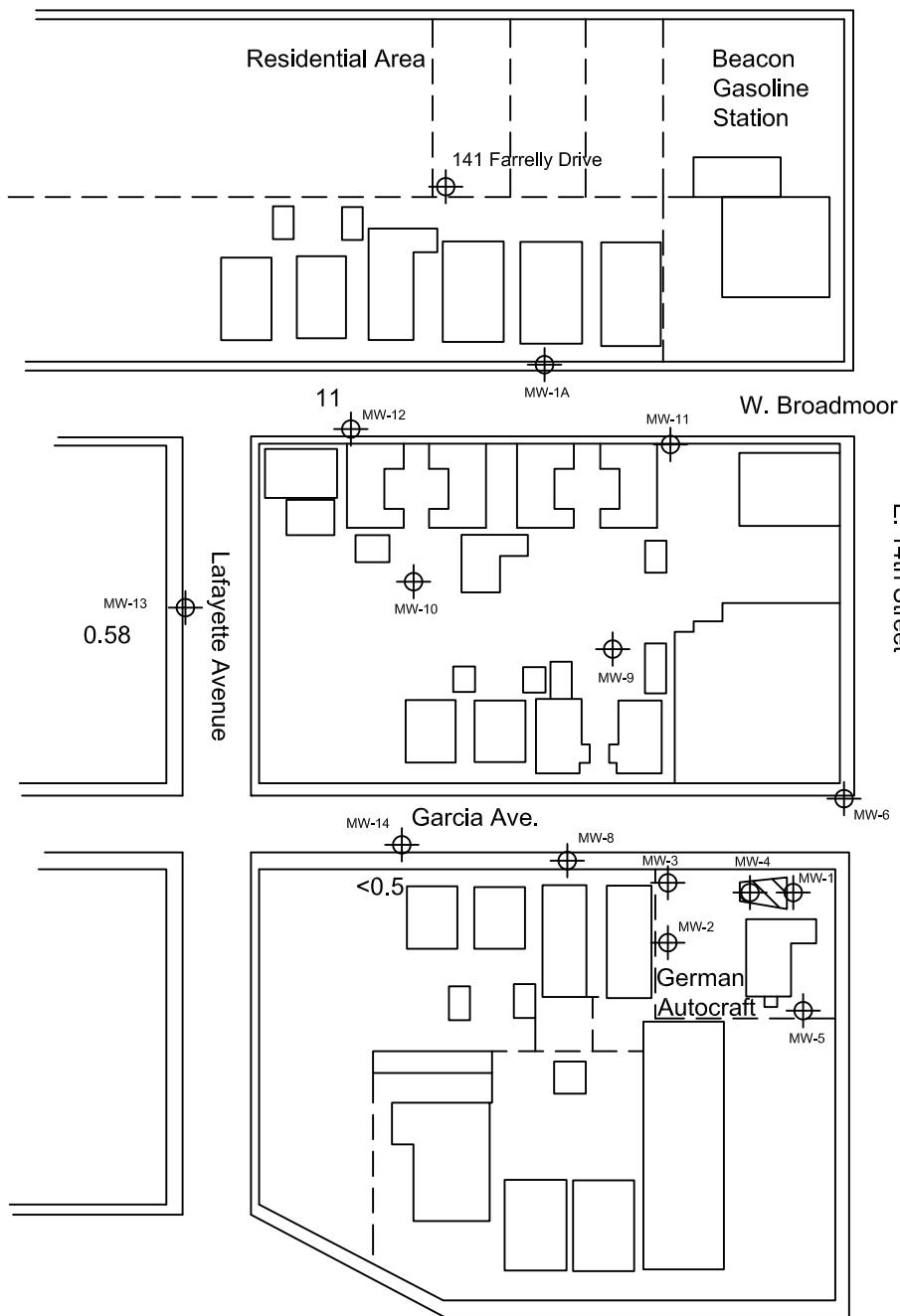
TPHg in Groundwater

Figure 4

Rev. A

06.11.08

Farrelly Drive



EXPLANATION:

0' 60' 120'



Scale: 1"=120'

— Streets/Buildings

○ Groundwater Monitoring Well

▨ Former Tank Pit Areas

□ Buildings

Concentrations in  $\mu\text{g}/\text{L}$ ; wells with no data not tested this event.



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Figure 5

Rev. A

Benzene in Groundwater ( $\mu\text{g}/\text{L}$ )

06.11.08

## Tables



**Table 1**  
**Summary of Well Construction Details**  
German Autocraft, 301 E. 14<sup>th</sup> Street, San Leandro, California

Well Number	Date Installed	Casing Diameter (inches)	Total Depth (feet)	Screened Interval (feet)	Relative Location	TOC Elevation
<b>MW-1</b>	1/6/95	2	32.10	20-40 ft	Onsite	49.40
<b>MW-2</b>	1/6/95	2	33.05	unknown	Onsite	50.02
<b>MW-3</b>	1/6/95	2	34.80	unknown	Onsite	49.32
<b>MW-4</b>	12/30/98	2	34.30	unknown	Onsite	49.61
<b>MW-5</b>	12/30/98	2	21.15	conflict	Onsite	49.57
<b>MW-6</b>	12/30/98	2	33.10	20-35 ft	Off-site	48.06
<b>MW-8</b>	12/30/98	2	34.20	20-30 ft	Off-site	49.35
<b>MW-9</b>	12/30/98	2	33.70	20-35 ft	Off-site	48.77
<b>MW-10</b>	12/30/98	2	37.50	20-40 ft	Off-site	49.93
<b>MW-11</b>	12/30/98	2	36.90	20-35 ft	Off-site	47.93
<b>MW-12</b>	3/20/01	2	38.22	23-38 ft	Off-site	unknown
<b>MW-13</b>	3/20/01	2	37.47	23-38 ft	Off-site	unknown
<b>MW-14</b>	3/20/01	2	30.43	20-30 ft	Off-site	unknown
<b>MW-1A</b>	5/30/97	2	33.88	unknown	Off-site	48.24
<b>141</b>	4/6/96	10	33.88	unknown	Off-site	48.76
<b>Farrelly</b>						

**Table 2**  
**Current Quarter Groundwater Elevations**  
German Autocraft, 301 E. 14<sup>th</sup> Street, San Leandro, California

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-1</b>	06/11/2008	24.97	49.40	24.43
<b>MW-2</b>	06/11/2008	25.71	50.02	24.31
<b>MW-3</b>	06/11/2008	24.80	49.32	24.52
<b>MW-4</b>	06/11/2008	25.19	49.61	24.42
<b>MW-6</b>	06/11/2008	23.62	48.06	24.44
<b>MW-8</b>	06/11/2008	25.23	49.35	24.12
<b>MW-9</b>	06/11/2008	24.61	48.77	24.16
<b>MW-10</b>	06/11/2008	25.98	49.93	23.95
<b>MW-11</b>	06/11/2008	23.81	47.93	24.12
<b>MW-12</b>	06/11/2008	24.60	48.76	24.16
<b>MW-13</b>	06/11/2008	26.02	unknown	Nc

<b>MW-14</b>	06/11/2008	25.69	unknown	Nc
<b>MW-1A</b>	06/11/2008	24.24	48.24	24.00
<b>141 Farrelly</b>	06/11/2008	nm	nm	nm

nc = not calculated as TOC elevation is unknown. Nm = not measured as well was unavailable for sampling.

**Table 3**  
**Cumulative Summary of Groundwater Elevations**  
German Autocraft, 301 E. 14<sup>th</sup> Street, San Leandro, California

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-1</b>	12/21/90	30.25	49.40	19.15
	2/10/95	19.81	49.40	29.59
	7/7/95	22.77	49.40	26.63
	8/10/95	23.82	49.40	25.58
	9/11/95	24.72	49.40	24.68
	10/2/95	25.28	49.40	24.12
	11/7/95	26.04	49.40	23.36
	12/8/95	18.77	49.40	22.77
	1/12/96	25.05	49.40	24.35
	2/12/96	20.36	49.40	29.04
	3/12/96	17.65	49.40	31.75
	4/13/96	19.97	49.40	29.43
	5/14/96	21.51	49.40	27.89
	6/20/96	22.21	49.40	27.19
	7/26/96	23.45	49.40	25.95
	8/19/96	24.24	49.40	25.16
	9/17/96	24.96	49.40	24.44
	10/21/96	25.77	49.40	23.63
	11/27/96	25.12	49.40	24.28
	12/27/96	21.17	49.40	28.23
	1/28/97	16.38	49.40	33.02
	4/25/97	22.26	49.40	27.14
	7/17/97	24.85	49.40	24.55
	10/21/97	26.55	49.40	22.85
	3/10/98	15.05	49.40	34.35
	6/6/98	18.71	49.40	30.69

	9/30/98	23.45	49.40	25.95
	12/30/98	24.27	49.40	25.13
	3/13/99	19.42	49.40	29.98
	9/29/99	25.01	49.40	24.39
	12/29/99	25.65	49.40	23.75
	3/18/00	17.48	49.40	31.92
	7/18/00	23.19	49.40	26.21
	9/26/00	24.39	49.40	25.01
	12/28/00	24.77	49.40	24.63
	3/30/01	21.93	49.40	27.47
	10/5/01	25.58	49.40	23.82
	3/28/02	20.74	49.40	28.66
	3/31/03	22.72	49.40	26.68
	6/19/03	23.17	49.40	26.23
	9/30/03	25.35	49.40	24.05
	2/10/04	22.44	49.40	26.96
	6/30/04	24.67	49.40	24.73
	9/14/04	27.89	49.40	21.51
	3/29/06	18.84	49.40	30.56
	6/24/06	20.57	49.40	28.83
	9/30/06	23.53	49.40	25.87
	12/11/06	22.78	49.40	26.29
	03/16/07	nm	49.40	nm
	06/10/07	24.36	49.40	25.04
	09/14/07	25.92	49.40	23.48
	12/14/07	26.22	49.40	23.18
	03/12/08	22.40	49.40	27.00
	06/11/08	24.97	49.40	24.43

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-2</b>	2/10/95	---	50.02	29.62
	7/7/95	---	50.02	26.47
	8/10/95	---	50.02	25.40
	9/11/95	---	50.02	24.49
	10/2/95	---	50.02	23.94
	11/7/95	---	50.02	23.13
	12/8/95	---	50.02	22.55
	1/12/96	---	50.02	24.20
	2/12/96	---	50.02	29.03
	3/12/96	---	50.02	31.60
	4/13/96	---	50.02	29.25
	5/14/96	---	50.02	27.68
	6/20/96	---	50.02	26.97

	7/26/96	---	50.02	25.74
	8/19/96	---	50.02	24.97
	9/17/96	---	50.02	24.22
	10/21/96	---	50.02	23.43
	11/27/96	---	50.02	24.09
	12/27/96	---	50.02	28.03
	1/28/97	---	50.02	32.71
	4/25/97	---	50.02	26.88
	7/17/97	---	50.02	24.31
	10/21/97	---	50.02	22.69
	3/10/98	---	50.02	34.20
	6/6/98	---	50.02	30.41
	9/30/98	---	50.02	25.68
	12/30/98	---	50.02	24.93
	3/13/99	---	50.02	29.80
	9/29/99	---	50.02	24.12
	12/29/99	---	50.02	23.52
	3/18/00	---	50.02	31.87
	7/18/00	---	50.02	26.01
	9/26/00	---	50.02	24.69
	12/28/00	---	50.02	24.39
	3/30/01	---	50.02	27.31
	10/5/01	---	50.02	23.64
	3/28/02	---	50.02	28.43
	9/30/02	---	50.02	24.18
	3/31/03	---	50.02	26.39
	6/19/03	---	50.02	26.04
	9/30/03	---	50.02	23.83
	2/10/04	---	50.02	26.75
	6/30/04	---	50.02	24.57
	9/14/04	---	50.02	23.32
	3/29/06	19.61	50.02	30.41
	6/24/06	21.41	50.02	28.61
	9/30/06	24.37	50.02	25.65
	12/11/06	23.92	50.02	26.10
	03/16/07	22.78	50.02	27.24
	06/10/07	25.12	50.02	24.90
	09/14/07	26.63	50.02	23.39
	12/14/07	26.58	50.02	23.44
	03/12/08	23.10	50.02	26.92
	06/11/08	25.71	50.02	24.31

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-3</b>	2/10/95	---	49.32	29.57
	7/7/95	---	49.32	26.50
	8/10/95	---	49.32	25.44
	9/11/95	---	49.32	24.54
	10/2/95	---	49.32	24.00
	11/7/95	---	49.32	23.21
	12/8/95	---	49.32	22.62
	1/12/96	---	49.32	24.25
	2/12/96	---	49.32	29.00
	3/12/96	---	49.32	31.67
	4/13/96	---	49.32	29.26
	5/14/96	---	49.32	27.71
	6/20/96	---	49.32	27.00
	7/26/96	---	49.32	25.67
	8/19/96	---	49.32	25.01
	9/17/96	---	49.32	24.27
	10/21/96	---	49.32	23.48
	11/27/96	---	49.32	24.13
	12/27/96	---	49.32	28.11
	1/28/97	---	49.32	32.78
	4/25/97	---	49.32	26.94
	7/17/97	---	49.32	24.37
	10/21/97	---	49.32	22.73
	3/10/98	---	49.32	34.13
	6/6/98	---	49.32	30.47
	9/30/98	---	49.32	25.75
	12/30/98	---	49.32	24.99
	3/13/99	---	49.32	29.83
	9/29/99	---	49.32	24.20
	12/29/99	---	49.32	23.60
	3/18/00	---	49.32	31.82
	7/18/00	---	49.32	26.04
	9/26/00	---	49.32	24.80
	12/28/00	---	49.32	24.45
	3/30/01	---	49.32	27.39
	10/5/01	---	49.32	23.70
	3/28/02	---	49.32	28.49
	9/30/02	---	49.32	24.12
	3/31/03	---	49.32	26.50
	6/19/03	---	49.32	26.03
	9/30/03	---	49.32	23.82
	2/10/04	---	49.32	26.79

	6/30/04	---	49.32	24.59
	9/14/04	---	49.32	21.39
	3/29/06	18.87	49.32	30.45
	6/24/06	22.65	49.32	26.67
	9/30/06	24.49	49.32	24.83
	12/11/06	23.03	49.32	26.29
	03/16/07	21.97	49.32	27.35
	06/10/07	24.28	49.32	25.04
	09/14/07	25.75	49.32	23.57
	12/14/07	25.96	49.32	23.36
	03/12/08	22.31	49.32	27.01
	06/11/08	24.80	49.32	24.52

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-4</b>	12/30/98	---	49.61	25.05
	3/13/99	---	49.61	29.89
	9/29/99	---	49.61	24.27
	12/29/99	---	49.61	23.64
	3/18/00	---	49.61	31.85
	12/28/00	---	49.61	24.52
	3/30/01	---	49.61	27.40
	10/5/01	---	49.61	23.77
	3/28/02	---	49.61	28.58
	9/30/02	---	49.61	24.32
	3/31/03	---	49.61	26.59
	6/19/03	---	49.61	26.16
	9/30/03	---	49.61	23.96
	9/14/04	---	49.61	21.45
	3/29/06	19.87	49.61	29.74
	6/24/06	22.86	49.61	26.75
	9/30/06	23.94	49.61	25.67
	12/11/06	23.36	49.61	26.25
	03/16/07	22.26	49.61	27.35
	06/10/07	24.60	49.61	25.01
	09/14/07	26.11	49.61	23.50
	12/14/07	26.39	49.61	23.22
	03/12/08	22.62	49.61	26.99
	06/11/08	25.19	49.61	24.42

<b>Well Number</b>	<b>Date Recorded</b>	<b>Depth to Groundwater (feet)</b>	<b>TOC Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
<b>MW-5</b>	12/30/98	---	49.57	25.06
	3/13/99	---	49.57	29.93
	9/29/99	---	49.57	24.26
	3/18/00	---	49.57	23.64
	3/28/02	---	49.57	31.94
	09/14/07	Dry	49.57	n/a
	12/14/07	Dry	49.57	n/a
	06/11/08	Dry	49.57	n/a

<b>Well Number</b>	<b>Date Recorded</b>	<b>Depth to Groundwater (feet)</b>	<b>TOC Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
<b>MW-6</b>	12/30/98	---	48.06	25.14
	3/13/99	---	48.06	29.97
	9/29/99	---	48.06	24.38
	12/29/99	---	48.06	23.75
	3/18/00	---	48.06	31.86
	7/18/00	---	48.06	26.22
	9/26/00	---	48.06	24.95
	12/28/00	---	48.06	24.61
	3/30/01	---	48.06	27.41
	10/5/01	---	48.06	23.82
	3/28/02	---	48.06	28.65
	9/30/02	---	48.06	24.41
	9/30/06	22.33	48.06	25.73
	09/14/07	24.58	48.06	23.48
	12/14/07	24.88	48.06	23.18
	03/12/08	21.03	48.06	27.03
	06/11/08	23.62	48.06	24.44

<b>Well Number</b>	<b>Date Recorded</b>	<b>Depth to Groundwater (feet)</b>	<b>TOC Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
<b>MW-8</b>	12/30/98	---	49.35	25.14
	3/13/99	---	49.35	---
	9/29/99	---	49.35	---
	12/29/99	---	49.35	---

	3/18/00	---	49.35	---
	7/18/00	---	49.35	---
	9/26/00	---	49.35	---
	12/28/00	---	49.35	---
	3/30/01	---	49.35	---
	10/5/01	---	49.35	---
	3/28/02	---	49.35	---
	9/30/06	24.07	49.35	25.28
	09/14/07	26.12	49.35	23.23
	12/14/07	26.35	49.35	23.00
	03/12/08	22.65	49.35	26.70
	06/11/08	25.23	49.35	24.12

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-9</b>	12/30/98	---	48.77	24.79
	3/13/99	---	48.77	29.58
	9/29/99	---	48.77	24.05
	12/29/99	---	48.77	23.45
	3/18/00	---	48.77	31.46
	7/18/00	---	48.77	25.83
	9/26/00	---	48.77	24.61
	12/28/00	---	48.77	24.29
	3/30/01	---	48.77	27.12
	10/5/01	---	48.77	23.54
	3/28/02	---	48.77	28.32
	9/30/02	---	48.77	24.11
	3/31/03	---	48.77	26.33
	6/19/03	---	48.77	25.90
	9/30/03	---	48.77	23.77
	2/10/04	---	48.77	26.64
	6/30/04	---	48.77	24.22
	9/14/04	---	48.77	23.08
	3/29/06	16.74	48.77	32.03
	6/24/06	22.43	48.77	26.34
	9/30/06	23.40	48.77	25.37
	12/11/06	22.78	48.77	25.99
	03/16/07	21.76	48.77	27.01
	09/14/07	25.50	48.77	23.27
	12/14/07	25.83	48.77	22.94
	03/12/08	22.08	48.77	26.69
	06/11/08	24.61	48.77	24.16

<b>Well Number</b>	<b>Date Recorded</b>	<b>Depth to Groundwater (feet)</b>	<b>TOC Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
<b>MW-10</b>	12/30/98	---	49.93	24.78
	3/13/99	---	49.93	29.31
	9/29/99	---	49.93	23.80
	12/29/99	---	49.93	23.23
	3/18/00	---	49.93	31.26
	7/18/00	---	49.93	25.55
	9/26/00	---	49.93	24.34
	12/28/00	---	49.93	24.03
	3/30/01	---	49.93	26.79
	10/5/01	---	49.93	23.33
	3/28/02	---	49.93	28.06
	9/30/02	---	49.93	23.88
	3/31/03	---	49.93	26.06
	6/19/03	---	49.93	25.65
	9/30/03	---	49.93	23.56
	2/10/04	---	49.93	26.39
	6/30/04	---	49.93	24.22
	9/14/04	---	49.93	23.08
	3/29/06	20.18	49.93	29.75
	6/24/06	23.87	49.93	26.06
	9/30/06	24.80	49.93	25.13
	03/16/07	23.09	49.93	26.84
	09/14/07	26.87	49.93	23.06
	12/14/07	27.14	49.93	22.79
	03/12/08	23.48	49.93	26.45
	06/11/08	25.98	49.93	23.95

<b>Well Number</b>	<b>Date Recorded</b>	<b>Depth to Groundwater (feet)</b>	<b>TOC Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
<b>MW-11</b>	12/30/98	---	47.93	24.78
	3/13/99	---	47.93	29.56
	9/29/99	---	47.93	24.03
	12/29/99	---	47.93	23.43
	3/18/00	---	47.93	31.38
	7/18/00	---	47.93	25.81
	9/26/00	---	47.93	24.58
	12/28/00	---	47.93	24.26
	3/30/01	---	47.93	27.03
	10/5/01	---	47.93	23.52
	3/28/02	---	47.93	28.31
	9/30/02	---	47.93	24.09

	9/30/06	22.58	47.93	25.35
	09/14/07	24.72	47.93	25.21
	12/14/07	25.00	47.93	22.93
	06/11/08	23.81	47.93	24.12

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-12</b>	12/30/98	---	48.76	24.78
	3/13/99	---	48.76	29.56
	9/29/99	---	48.76	24.03
	12/29/99	---	48.76	23.43
	3/18/00	---	48.76	31.38
	7/18/00	---	48.76	25.81
	9/26/00	---	48.76	24.58
	12/28/00	---	48.76	24.26
	3/30/01	---	48.76	27.03
	10/5/01	---	48.76	23.52
	3/28/02	---	48.76	28.31
	9/30/02	---	48.76	24.09
	9/30/06	22.58	48.76	26.18
	12/11/06	23.88	48.76	24.88
	03/16/07	21.77	48.76	26.99
	06/10/07	24.06	48.76	24.70
	09/14/07	Not available	48.76	nc
	12/14/07	25.77	48.76	22.99
	03/12/08	Not available		
	06/11/08	24.60	48.76	24.16

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-13</b>	12/30/98	---	unknown	24.78
	3/13/99	---	---	29.56
	9/29/99	---	---	24.03
	12/29/99	---	---	23.43
	3/18/00	---	---	31.38
	7/18/00	---	---	25.81
	9/26/00	---	---	24.58
	12/28/00	---	---	24.26
	3/30/01	---	---	27.03
	10/5/01	---	---	23.52
	3/28/02	---	---	28.31
	9/30/02	---	---	24.09

	9/30/06	22.58	---	---
	12/11/06	25.33	---	---
	03/16/07	23.00	---	---
	06/10/07	25.50	---	---
	09/14/07	26.85	nm	nc
	12/14/07	27.11	unknown	nc
	03/12/08	23.50	nm	nc
	06/11/08	26.02	nm	nc

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-14</b>	12/30/98	---	unknown	24.78
	3/13/99	---	---	29.56
	9/29/99	---	----	24.03
	12/29/99	---	---	23.43
	3/18/00	---	---	31.38
	7/18/00	---	---	25.81
	9/26/00	---	---	24.58
	12/28/00	---	---	24.26
	3/30/01	---	---	27.03
	10/5/01	---	---	23.52
	3/28/02	---	--	28.31
	9/30/02	---	---	24.09
	9/30/06	22.58	---	---
	12/11/06	24.90	---	---
	03/16/07	22.67	---	---
	06/10/07	25.11	---	---
	09/14/07	26.56	nm	nc
	12/14/07	26.80	unknown	nc
	03/1/08	23.03	nm	nc
	06/11/08	25.69	nm	nc

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>MW-1A</b>	12/30/98	---	48.24	24.64
	3/13/99	---	48.24	29.39
	9/29/99	---	48.24	23.89
	12/29/99	---	48.24	23.29
	3/18/00	---	48.24	31.25
	7/18/00	---	48.24	25.64
	9/26/00	---	48.24	24.48

	12/28/00	---	48.24	24.13
	3/30/01	---	48.24	27.02
	10/5/01	---	48.24	23.38
	3/28/02	---	48.24	28.14
	9/30/02	---	48.24	23.96
	9/30/06	23.03	48.24	25.21
	09/14/07	25.13	48.24	23.11
	12/14/07	25.43	48.24	22.81
	03/12/08	21.75	48.24	26.49
	06/11/08	24.24	48.24	24.00

Well Number	Date Recorded	Depth to Groundwater (feet)	TOC Elevation (feet)	Groundwater Elevation (feet)
<b>141 Farrelly</b>	03/18/00	17.90	48.76	30.86
	09/26/00	24.66	48.76	24.10
	03/30/01	22.25	48.76	26.51
	09/30/02	25.34	48.76	23.42
	12/21/02	20.07	48.76	28.69
	06/19/03	23.55	48.76	25.21
	09/14/04	26.12	48.76	22.64
	03/16/07	22.28	48.76	26.48
	09/14/07	25.98	48.76	22.78
	3/12/08	Not available	48.76	Nm
	06/11/08	Not Available	48.76	nm

**Table 4**  
**Current Quarter Groundwater Analytical Data**  
**June 11, 2008**

Well Number	Date Sampled	TPHg ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethyl-Benzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )	MtBE ( $\mu\text{g/l}$ )
MW-12	6/11/08	6,200	11	21	26	8.1	<50
MW-13	6/11/08	120	0.58	0.97	1.1	2.0	<5
MW-14	6/11/08	52	<0.5	0.68	<0.5	1.0	<5

Table 5  
Cumulative Summary of Groundwater Analytical Data

<b>Well Number</b>	<b>Date Sampled</b>	<b>TPHg (µg/l)</b>	<b>Benzene (µg/l)</b>	<b>Toluene (µg/l)</b>	<b>Ethyl-Benzene (µg/l)</b>	<b>Total Xylenes (µg/l)</b>
<b>MW-1</b>	12/31/90	51,000	2,200	1,200	<0.5	760
	1/6/95	110,000	13,000	15,000	4,800	13,000
	1/6/95	580,000	29,000	41,000	17,000	43,000
	7/6/95	49,000	8,000	17,000	1,900	9,700
	10/2/95	120,000	16,000	36,000	3,300	17,000
	10/2/95	160,000	20,000	47,000	5,000	23,000
	1/12/96	1,100,000	11,000	18,000	15,000	51,000
	1/12/96	98,000	2,100	4,600	2,500	10,000
	4/13/96	53,000	1,300	2,900	2,100	10,000
	4/13/96	58,000	820	3,600	2,800	12,000
	7/26/96	91,000	2,600	7,200	2,900	14,000
	7/26/96	67,000	2,300	5,500	2,500	11,000
	10/21/96	210,000	4,800	17,000	2,300	15,000
	10/21/96	210,000	5,400	18,000	2,600	11,000
	1/28/97	120,000	5,600	15,000	2,100	11,000
	1/28/97	130,000	5,500	15,000	2,300	12,000
	4/25/97	180,000	6,900	20,000	2,600	13,000
	4/25/97	170,000	6,500	20,000	2,500	13,000
	7/17/97	220,000	8,300	41,000	2,700	16,000
	10/21/97	240,000	9,400	33,000	3,300	22,000
	3/10/98	120,000	11,000	46,000	3,700	21,000
	6/6/98	110,000	7,600	32,000	4,800	23,000
	9/30/98	140,000	5,800	29,000	3,500	18,000
	12/30/98	78,000	5,200	24,000	3,200	19,000
	3/23/99	250,000	8,000	43,000	5,200	27,000
	9/29/99	140,000	6,100	35,000	5,400	27,000
	3/18/00	120,000	5,100	33,000	4,600	24,000
	3/20/01	100,000	3,600	41,000	4,700	25,000
	3/28/02	100,000	2,800	24,000	5,400	28,900
	3/31/03	100,000	2,200	19,000	4,900	21,000
	3/31/04	100,000	2,100	21,000	6,200	36,000
	9/14/04	160,000	1,800	16,000	5,500	30,000
	3/29/06	69,000	1,400	16,000	4,900	28,000
	09/30/06	120,000	1,400	13,000	5,200	29,000
	09/14/07	92,000	1,000	9,400	4,300	23,000

<b>Well Number</b>	<b>Date Sampled</b>	<b>TPHg (µg/l)</b>	<b>Benzene (µg/l)</b>	<b>Toluene (µg/l)</b>	<b>Ethyl-Benzene (µg/l)</b>	<b>Total Xylenes (µg/l)</b>
<b>MW-2</b>	1/6/95	980,000	9,400	5,600	19,000	42,000
	7/6/95	71,000	5,300	1,800	6,100	9,000
	10/2/95	40,000	2,900	200	2,800	3,600
	1/12/96	260,000	2,600	2,200	6,300	7,800
	4/13/96	30,000	1,900	370	2,300	2,400
	7/26/96	180,000	1,400	640	2,100	5,000
	10/21/96	62,000	2,100	<0.5	2,100	2,700
	1/28/97	46,000	1,500	94	1,800	2,000
	4/25/97	23,000	790	26	820	730
	7/17/97	95,000	2,200	<0.5	3,100	4,300
	10/21/97	31,000	2,000	<0.5	2,100	1,900
	3/10/98	19,000	730	44	820	1,000
	6/6/98	16,000	670	1,100	510	1,200
	9/30/98	24,000	600	77	680	580
	12/30/98	9,300	510	96	450	480
	3/23/99	5,700	580	9.4	400	280
	9/29/99	17,000	880	240	830	1,000
	12/29/99	11,000	800	11	860	780
	3/18/00	11,000	790	14	520	450
	7/18/00	10,000	560	27	630	530
	9/26/00	6,800	450	7.4	290	200
	12/28/00	12,000	540	30	420	330
	3/20/01	3,500	230	<10	<10	<10
	3/28/02	7,000	570	16	170	71
	3/31/03	5,000	620	<12.5	71	<25
	3/31/04	8,200	500	<12.5	65	<25
	9/14/04	9,000	560	<13	57	<25
	3/29/06	5,200	1,400	<20	52	<20
	9/30/06	4,800	900	64	22	110
	09/14/07	11,000	2,200	53	72	150

<b>Well Number</b>	<b>Date Sampled</b>	<b>TPHg (µg/l)</b>	<b>Benzene (µg/l)</b>	<b>Toluene (µg/l)</b>	<b>Ethyl-Benzene (µg/l)</b>	<b>Total Xylenes (µg/l)</b>
<b>MW-3</b>	1/6/95	740,000	11,000	2,300	8,300	28,000
	7/6/95	86,000	12,000	8,600	4,900	19,000
	10/2/95	100,000	15,000	11,000	6,000	20,000

	1/12/96	84,000	6,500	4,100	3,200	12,000
	4/13/96	48,000	7,600	3,600	2,800	9,400
	7/26/96	62,000	6,400	3,100	3,000	11,000
	10/21/96	110,000	5,400	2,400	2,500	9,800
	1/28/97	130,000	5,500	15,000	2,300	12,000
	4/25/97	180,000	6,900	20,000	2,600	13,000
	7/17/97	69,000	5,100	1,100	1,800	8,600
	10/21/97	58,000	4,300	1,300	2,100	8,000
	3/10/98	25,000	3,000	1,300	1,100	3,700
	6/6/98	52,000	4,400	1,900	2,300	6,900
	9/30/98	42,000	4,300	1,400	1,800	6,600
	12/30/98	34,000	4,200	770	2,300	9,000
	3/23/99	44,000	3,500	1,000	1,700	5,200
	9/29/99	39,000	6,000	840	2,400	8,100
	12/29/99	39,000	4,600	790	2,400	8,100
	3/18/00	21,000	3,100	550	1,400	4,100
	7/18/00	30,000	5,000	950	2,000	5,700
	9/26/00	36,000	5,300	640	2,400	9,900
	12/28/00	33,000	4,700	450	2,100	6,400
	3/20/01	21,000	2,000	260	570	3,000
	3/31/03	25,000	3,200	280	1,600	4,200
	3/31/04	11,000	1,000	940	550	1,900
	9/14/04	42,000	3,600	190	2,200	4,800
	3/29/06	7,200	180	17	460	680
	9/30/06	7,100	130	94	500	820
	09/14/07	6,700	16	44	200	400

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>MW-4</b>	12/30/98	12,000	1,200	1,100	290	1,400
	3/23/99	89,000	5,900	8,700	2,000	9,200
	9/29/99	48,000	5,300	6,800	1,700	7,700
	3/18/00	44,000	4,500	7,500	2,200	11,000
	3/20/01	10,000	700	620	<10	1,900
	3/28/02	30,000	3,700	3,100	1,100	4,100
	3/31/03	25,000	2,000	2,100	820	2,900
	3/31/04	24,000	2,500	200	1,400	2,800
	9/14/04	14,000	760	550	430	1,600
	3/29/06	17,000	2,000	1,200	910	2,400
	9/30/06	4,000	440	120	240	360
	9/14/07	10,000	1,300	96	440	560

<b>Well Number</b>	<b>Date Sampled</b>	<b>TPHg (µg/l)</b>	<b>Benzene (µg/l)</b>	<b>Toluene (µg/l)</b>	<b>Ethyl-Benzene (µg/l)</b>	<b>Total Xylenes (µg/l)</b>
<b>MW-5</b>	12/30/98	170	1.1	<0.5	<0.5	4.8
	3/22/99	470	3.8	0.51	2.0	<0.5
	9/29/99	1,200	13	4.2	2.7	4.2
	3/18/00	660	5.5	0.62	1.6	1.7
	3/29/06	190	<0.5	<0.5	<0.5	<0.5
	9/30/06	Dry	---	---	---	---
	9/14/07	Dry	---	---	---	---

<b>Well Number</b>	<b>Date Sampled</b>	<b>TPHg (µg/l)</b>	<b>Benzene (µg/l)</b>	<b>Toluene (µg/l)</b>	<b>Ethyl-Benzene (µg/l)</b>	<b>Total Xylenes (µg/l)</b>
<b>MW-6</b>	12/30/98	400	1.0	<0.5	<0.5	4.8
	3/22/99	390	<0.5	<0.5	<0.5	<0.5
	9/30/99	330	1.8	1.4	1.5	<0.5
	3/18/00	200	1.3	<0.5	<0.5	<0.5
	9/26/00	240	1.5	<0.5	<0.5	<0.5
	3/20/01	160	<0.5	<0.5	<0.5	<0.5
	3/28/02	88	.89	<0.5	<0.5	<0.5
	3/29/06	NS	NS	NS	NS	NS
	9/30/06	280	5.5	24	14	69
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5

<b>Well Number</b>	<b>Date Sampled</b>	<b>TPHg (µg/l)</b>	<b>Benzene (µg/l)</b>	<b>Toluene (µg/l)</b>	<b>Ethyl-Benzene (µg/l)</b>	<b>Total Xylenes (µg/l)</b>
<b>MW-8</b>	12/30/98	2,200	70	0.94	26	15
	3/23/99	2,300	34	1.1	15	13
	9/30/99	8,800	140	<50	53	<50
	12/29/99	1,900	64	1.0	22	23
	3/18/00	1,400	36	<0.5	12	9.3
	7/18/00	3,000	67	9.8	38	38
	9/26/00	1,200	24	3.0	24	15
	12/28/00	1,200	47	3.7	17	18
	3/20/01	1,300	7.8	<2.5	<2.5	14
	10/5/01	1,800	28	<2.5	20	23
	3/28/02	1,100	12	1.7	11	10.8
	9/30/02	1,400	15	24	32	22

	9/30/06	760	4.9	31	13	64
	03/16/07	370	<0.5	8.1	0.52	0.94
	09/14/07	1,300	1.3	20	3.0	1.6
	03/12/08	520	1.4	11	3.9	5.6

Well Number	Date Sampled	TPHg ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethyl-Benzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )
<b>MW-9</b>	12/30/98	25,000	23	<10	180	620
	3/23/99	27,000	35	<20	600	920
	9/30/99	42,000	140	130	1,000	1,700
	12/29/99	1,100,000	1,200	1,300	4,300	8,700
	3/18/00	17,000	89	46	10	600
	7/18/00	12,000	39	8.2	540	760
	9/26/00	11,000	19	<5	470	610
	12/28/00	22,000	100	<100	610	770
	3/20/01	8,200	40	<10	14	210
	10/5/01	77,000	<100	110	780	850
	3/28/02	11,000	34	6.1	220	180
	9/30/02	34,000	<125	140	240	370
	3/31/03	6,200	<12.5	<12.5	130	87
	9/30/03	9,700	52	<25	160	87
	9/14/04	9,500	48	<25	93	<50
	3/29/06	6,200	<0.5	<0.5	57	11
	9/30/06	2,200	3.7	31	37	40
	3/16/07	3,200	2.2	37	18	2.9
	9/14/07	2,600	1.4	28	13	3.2
	03/12/08	2,800	2.3	32	12	5.3

Well Number	Date Sampled	TPHg ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethyl-Benzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )
<b>MW-10</b>	12/30/98	6,900	130	19	140	210
	3/23/99	6,600	150	33	240	170
	9/30/99	9,300	60	38	280	150
	12/29/99	5,800	87	10	420	180
	3/18/00	3,800	180	11	220	120
	7/18/00	9,100	120	33	210	130
	9/26/00	4,500	22	8.8	1.3	18
	12/28/00	3,900	55	13	98	38
	3/20/01	4,500	48	6.0	<5	23
	10/5/01	5,200	70	28	41	30

	3/28/02	7,400	45	20	210	66
	9/30/02	670	54	5.9	76	23
	3/31/03	5,700	31	38	67	27
	9/30/03	7,400	61	<50	<50	<100
	9/14/04	9,100	47	<25	51	<50
	3/29/06	6,800	140	18	270	160
	9/30/06	5,700	61	30	78	120
	3/16/07	10,000	71	15	46	25
	9/14/07	5,800	55	18	22	15
	03/12/08	9,300	240	23	48	37

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>MW-11</b>	12/30/98	80	<0.5	<0.5	0.93	1.6
	3/23/99	<50	<0.5	<0.5	<0.5	<0.5
	9/30/99	94	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5
	9/26/00	<50	<0.5	<0.5	<0.5	<0.5
	3/20/01	<50	<0.5	<0.5	<0.5	<0.5
	3/28/02	<50	<0.5	<0.5	<0.5	<1.5
	9/30/06	160	1.8	12	7.6	40
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>MW-12</b>	3/20/01	4,100	28	6.2	<5	16
	6/29/01	4,200	26	25	19	29
	12/21/01	5,300	9.7	<2.5	41	14
	3/28/02	4,900	20	<2.5	69	23
	6/28/02	2,600	29	<12.5	30	<25
	9/30/02	700	16	4.9	19	9.8
	09/30/06	2,100	6.2	15	16	38
	12/11/06	5,500	13	24	16	23
	3/16/07	4,900	11	24	16	8.5
	6/10/07	2,600	<2.5	<2.5	13	9.5
	9/14/07	not available				

	03/12/08	not available			
	06/11/08	6,200	11	21	26

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>MW-13</b>	3/20/01	<50	<0.5	<0.5	<0.5	<0.5
	6/29/01	<50	<0.5	<0.5	<0.5	<0.5
	10/5/01	<50	<0.5	<0.5	<0.5	<0.5
	12/21/01	<50	<0.5	<0.5	<0.5	<0.5
	3/28/02	<50	<0.5	<0.5	<0.5	<1.5
	6/28/02	<50	<0.5	<0.5	<0.5	<1.0
	9/30/02	<50	<0.5	<0.5	<0.5	<1.0
	12/21/02	<50	<0.5	<0.5	<0.5	<1.0
	09/30/06	170	2.1	13	8.1	43
	12/11/06	110	4.6	6.5	4.6	17
	3/16/07	<50	<0.5	<0.5	<0.5	<0.5
	6/10/07	54	0.80	0.84	1.3	5.4
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/14/07	ND<50	0.76	ND<0.5	2.3	2.6
	03/12/08	ND<50	ND<0.5	ND<0.5	0.66	2.2
	06/11/08	120	0.58	0.97	1.1	2.0

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>MW-14</b>	3/20/01	200	<0.5	<0.5	<0.5	<0.5
	6/29/01	660	<0.5	<0.5	<0.5	4.6
	10/5/01	770	1.7	1.5	0.91	8.3
	12/21/01	1,500	3.1	13	1.9	22
	3/28/02	390	1.7	<0.5	<0.5	0.74
	6/28/02	120	<0.5	<0.5	<0.5	<1
	9/30/02	210	<0.5	1.7	<0.5	1.1
	12/21/02	53	<0.5	<0.5	<0.5	<1.0
	09/30/06	210	2.5	15	9.1	48
	12/11/06	190	6.7	9.9	5.4	19
	3/16/07	<50	<0.5	1.1	<0.5	<0.5
	6/10/07	73	1.1	1.3	1.8	7.2
	9/14/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	12/14/07	69	1.1	0.57	3.5	4.5
	03/12/08	110	0.61	1.2	1.2	3.6
	06/11/08	52	<0.5	0.68	<0.5	1.0

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>MW-1A</b>	5/30/97	12,000	18	8.7	90	540
	12/30/98	51	<0.5	<0.5	<0.5	<0.5
	3/23/99	1,800	4.0	<0.5	3.0	7.5
	3/23/99	2,200	10	0.52	3.1	7.1
	9/30/99	13,000	63	26	30	72
	3/8/00	6,100	36	<5	9.7	45
	9/26/00	11,000	14	<5	65	150
	3/20/01	4,800	30	6.0	<5	7.0
	10/5/01	15,000	76	41	36	140
	3/28/02	9,300	35	<12.5	17	32
	9/30/02	23,000	<50	63	77	230
	9/30/06	2,500	4.1	25	22	49
	3/16/07	1,800	1.8	17	6.4	4.4
	9/14/07	1,500	1.1	15	2.8	1.8
	03/12/08	1,200	2.1	12	5.0	3.6

Well Number	Date Sampled	TPHg (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-Benzene (µg/l)	Total Xylenes (µg/l)
<b>141 Farrelly</b>	4/6/96	<50	<0.5	<0.5	<0.5	<0.5
	10/2/99	<50	<0.5	<0.5	<0.5	<0.5
	3/18/00	<50	<0.5	<0.5	<0.5	<0.5
	7/13/00	<50	<0.5	<0.5	<0.5	<0.5
	9/26/00	<50	<0.5	<0.5	<0.5	<0.5
	12/29/00	<50	<0.5	<0.5	<0.5	<0.5
	12/21/01	<50	<0.5	<0.5	<0.5	<0.5
	9/30/02	<50	<0.5	<0.5	<0.5	<1.0
	12/21/02	<50	<0.5	<0.5	<0.5	<1.0
	6/19/03	<50	<0.5	<0.5	<0.5	<1.0
	9/14/04	<50	<0.5	<0.5	<0.5	<1.0
	3/16/07	<50	<0.5	<0.5	<0.5	<0.5
	9/14/07	<50	<0.5	<0.5	<0.5	<0.5

## **Well Sampling Reports**



### Well Sampling Data (06/11/08)

301 E. 14th Street

San Leandro, CA

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**WELL: MW-1**

Well Purge Method: Submersible Pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 26.24

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	32.44	ft btoc
Depth to Water:	24.97	ft btoc
Height of Water:	7.47	ft
Three Well Volumes:	3.81	gal

**Notes: No obvious odor, DTW only, no sample**

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
06/11/08	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	%	Depth [ft]
		Pre-Purge	nm	nm	nm	nm	nm	24.97		na
		Purging	nm	nm	6.89	nm	57.2	nm		na
		Purging	nm	nm	6.84	nm	56.6	nm		na
		Purging	nm	nm	6.82	nm	56.6	nm		na
		Collect Sample	nm	nm	nm	nm	nm	26.24	99.69%	na

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**WELL: MW-2**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 25.71

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.25	ft btoc
Depth to Water:	25.71	ft btoc
Height of Water:	7.54	ft
Three Well Volumes:	3.85	gal

**Notes: Strong petroleum odor. No sample, DTW only**

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
06/11/08	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	%	Depth [ft]
		Pre-Purge	nm	nm	nm	nm	nm	25.71		na
		Purging	nm	nm	6.84	nm	50.0	nm		na
		Purging	nm	nm	6.84	nm	50.7	nm		na
		Purging	nm	nm	6.84	nm	51.0	nm		na
		Collect Sample	nm	nm	nm	nm	nm	25.71	100.00%	na

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**WELL: MW-3**

Well Purge Method: Disposable Bailer  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 24.80

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	34.94	ft btoc
Depth to Water:	24.80	ft btoc
Height of Water:	10.14	ft
Three Well Volumes:	5.17	gal

**Note: Strong TPH odor present**

No sample, DTW only

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
06/11/08	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	%	Depth [ft]
		Pre-Purge	nm	nm	nm	nm	nm	24.80		na
		Purging	nm	nm	6.92	nm	55.5	nm		na
		Purging	nm	nm	6.89	nm	55.2	nm		na
		Purging	nm	nm	6.90	nm	55.4	nm		na
		Collect Sample	nm	nm	nm	nm	nm	24.80	100.00%	na

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# Well Sampling Data (06/11/08)

301 E. 14th Street

San Leandro, CA

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**WELL: MW-4**

Well Purge Method: Disposable Bailer  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 26.42

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	34.53	ft btoc
Depth to Water:	25.19	ft btoc
Height of Water:	9.34	ft
Three Well Volumes:	4.76	gal

Notes: Slight petroleum odor. No sample, DTW only

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
6/11/2008	0- Static	Pre-Purge	nm	nm	nm	nm	nm	25.19		na
		Purging	nm	nm	6.94	nm	55.7	nm		na
		Purging	nm	nm	6.91	nm	55.2	nm		na
		Purging	nm	nm	6.91	nm	55.4	nm		na
		Collect Sample	nm	nm	nm	nm	nm	26.42	100.12%	na

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**WELL: MW-5**

Well Purge Method: Disposable Bailer  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 0.00

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	21.62	ft btoc
Depth to Water:	Dry	ft btoc
Height of Water:	n/a	ft
Three Well Volumes:	0.00	gal

Dry

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	C	BTOC [ft]	Sample Depth	Depth [ft]
6/11/2008	0- Static	Pre-Purge	nm	nm	nm	nm	nm	Dry		na
		Purging	nm	nm	nm	nm	nm	nm		na
		Purging	nm	nm	nm	nm	nm	nm		na
		Purging	nm	nm	nm	nm	nm	nm		na
	nm	Collect Sample	nm	nm	nm	nm	nm		Dry	na

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**WELL: MW-6**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 24.90

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	31.29	ft btoc
Depth to Water:	23.62	ft btoc
Height of Water:	7.67	ft
Three Well Volumes:	3.91	gal

Notes: No obvious odor. No sample, DTW only

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
06/11/08		nm	nm	nm	nm		nm	24.58		
		nm	nm	nm	7.43	nm	61.5	nm		
		nm	nm	nm	7.26	nm	61.1	nm		
		nm	nm	nm	6.96	nm	60.8	nm		
		nm	nm	nm	nm	nm	nm	24.90	99.70%	

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### Well Sampling Data (06/11/08)

301 E. 14th Street

San Leandro, CA

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**WELL: MW-8**

Well Purge Method: Submersible Pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 22.65

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	29.69	ft btoc
Depth to Water:	25.23	ft btoc
Height of Water:	7.04	ft
Three Well Volumes:	3.59	gal

**DTW Only, no sample**

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
06/11/08	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0	nm	nm	nm	nm	nm	nm	26.12	25	na
	1		nm	nm	7.34	nm	53.4	nm		na
	2		nm	nm	6.90	nm	65.5	nm		na
	4		nm	nm	6.77	nm	65.9	nm		na
	Total 4.0		nm	nm	nm	nm	nm	22.65	99.44%	na

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**WELL: MW-9**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 22.08

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	32.97	ft btoc
Depth to Water:	24.61	ft btoc
Height of Water:	8.36	ft
Three Well Volumes:	4.26	gal

**DTW Only, No Sample**

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
06/11/08	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0	nm	nm	nm	nm	nm	nm	25.58		
	2	nm	nm	nm	6.88	nm	64.0	nm		
	4	nm	nm	nm	6.95	nm	65.6	nm		
	6	nm	nm	nm	6.98	nm	66.0	nm		
	Total 6.0 gal		nm	nm	nm	nm	nm	22.08	99.69%	

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**WELL: MW-10**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 23.48

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	37.87	ft btoc
Depth to Water:	25.98	ft btoc
Height of Water:	11.89	ft
Three Well Volumes:	6.06	gal

**DTW Only, No sample**

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
06/11/08	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
	0- Static	Pre-Purge	nm	nm	nm	nm	nm	25.98		na
	2	Purging	nm	nm	6.66	nm	64.2	nm		na
	4	Purging	nm	nm	6.70	nm	64.9	nm		na
	6	Purging	nm	nm	6.73	nm	65.1	nm		na
	Total 7.0	Collect Sample	nm	nm	nm	nm	nm	23.48	99.91%	na

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# Well Sampling Data (06/11/08)

301 E. 14th Street

San Leandro, CA

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**WELL: MW-11**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 24.72

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.70	ft btoc
Depth to Water:	23.81	ft btoc
Height of Water:	9.89	ft
Three Well Volumes:	5.04	gal

**Note: Well not scheduled for sampling**  
**DTW Only**

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
6/11/2008	0- Static	Pre-Purge	nm	nm	nm	nm	nm	23.81		na
		Purging	nm	nm	6.92	nm	58.8	nm		na
		Purging	nm	nm	6.92	nm	58.8	nm		na
		Purging	nm	nm	6.92	nm	58.8	nm		na
		Collect Sample	nm	nm	nm	nm	nm	24.72	100.00%	na

---

**WELL: MW-12**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: na

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	38.10	ft btoc
Depth to Water:	24.60	ft btoc
Height of Water:	13.50	ft
Three Well Volumes:	6.89	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
6/11/2008	0- Static	Pre-Purge	nm	nm	nm	nm	nm	24.60		na
		Purging	nm	nm	6.68	nm	67.2	nm		na
		Purging	nm	nm	6.66	nm	67.0	nm		na
		Purging	nm	nm	6.64	nm	66.9	nm		na
		Collect Sample	nm	nm	nm	nm	nm	24.62	100.00%	na

---

**WELL: 141 Farrelly Dr.**

Well Purge Method: Submersible pump  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 25.98

**Note: Well not accessible for sampling**

Well Screen Interval:	-	ft bgs
Casing Diameter:	10	inches
Total Depth of Well:	33.88	ft btoc
Depth to Water:		ft btoc
Height of Water:		ft
Three Well Volumes:		gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
06/11/08	0		nm	nm	nm	nm	nm	21.37		na
			nm	nm	6.89	nm	55.9			na
			nm	nm	6.89	nm	55.9			na
			nm	nm	6.89	nm	55.9			na
		Collect Sample	nm	nm	nm	nm	nm	25.98	100.00%	na

---

### Well Sampling Data (06/11/08)

301 E. 14th Street

San Leandro, CA

---

**WELL: MW-13**

**Well Purge Method:** Submersible pump  
**Sample Collection Method:** Disposable Bailer  
**Sample Collection Depth:** 26.08

**Notes:** No petroleum odor present.

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	37.47	ft btoc
Depth to Water:	26.02	ft btoc
Height of Water:	11.45	ft
Three Well Volumes:	5.84	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
6/11/2008	0- Static	Pre-Purge	nm	nm	nm	nm	nm	26.02		na
	2	Purging	nm	nm	6.68	nm	67.2	nm		na
	4	Purging	nm	nm	6.64	nm	67.4	nm		na
	6	Purging	nm	nm	6.63	nm	67.3	nm		na
	Total 6.0	Collect Sample	nm	nm	nm	nm	nm	26.08	99.45%	na

---

**WELL: MW-14**

**Well Purge Method:** Submersible pump  
**Sample Collection Method:** Disposable Bailer  
**Sample Collection Depth:** 25.69

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	30.43	ft btoc
Depth to Water:	25.69	ft btoc
Height of Water:	4.74	ft
Three Well Volumes:	2.42	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
6/11/2008	0- Static	Pre-Purge	nm	nm	nm	nm	nm	25.69		na
	1	Purging	nm	nm	6.72	nm	69.0	nm		na
	2	Purging	nm	nm	6.66	nm	66.9	nm		na
	3	Purging	nm	nm	6.61	nm	66.5	nm		na
	Total 3.0	Collect Sample	nm	nm	nm	nm	nm	25.69	100.00%	na

---

**WELL: MW-1A**

**Well Purge Method:** Submersible pump  
**Sample Collection Method:** Disposable Bailer  
**Sample Collection Depth:** 21.75

**Petroleum odor noted**  
**DTW only, no sample**

Well Screen Interval:	-	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	33.88	ft btoc
Depth to Water:	24.24	ft btoc
Height of Water:	9.64	ft
Three Well Volumes:	4.92	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump
	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	Sample Depth	Depth [ft]
06/11/08	0		nm	nm	nm	nm	nm	21.37		na
	2		nm	nm	6.91	nm	65.4			na
	4		nm	nm	6.88	nm	65.9			na
	5		nm	nm	6.83	nm	66.0			na
	Total 5.0		nm	nm	nm	nm	nm	21.75	99.88%	na

---

## **Analytical Reports**





## McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: [www.mccampbell.com](http://www.mccampbell.com) E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: 877-252-9262 Fax: 925-252-9269

Groundwater Cleaners  347 Frederick Street  San Francisco, CA 94117	Client Project ID: #301; German Autocraft	Date Sampled: 06/11/08
		Date Received: 06/11/08
	Client Contact: Glenn Reierstad	Date Reported: 06/17/08
	Client P.O.:	Date Completed: 06/13/08

**WorkOrder: 0806295**

June 17, 2008

Dear Glenn:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: **#301; German Autocraft**,
- 2) A QC report for the above samples,
- 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  
McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McCampbell Analytical, Inc.

0806295

## McCAMPBELL ANALYTICAL, INC.

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560Website: [www.mccampbell.com](http://www.mccampbell.com) Email: main@mccampbell.com  
Telephone: (925) 798-1620 Fax: (925) 798-1622

## CHAIN OF CUSTODY RECORD

## TURN AROUND TIME

 RUSH     24 HR     48 HR     72 HR     5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Glenn Reierstad Bill To: Same

Company: Groundwater Cleaners

347 Frederick Street

San Francisco, CA 94117 E-Mail: reierstad@msn.com

Tele: (415) 665-6181 Fax: (415) 566-3556

Project #: 301 Project Name: German Autocrat

Project Location: 301 F, 14th Street, San Leandro, CA

Sampler Signature: Reierstad

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX			METHOD PRESERVED	Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air				
MW-12		6/11	8:00	2	V X			X X	X	MTBE / BTX & TPH as Gas (602 / 8021 + 8015)		Filter Samples for Metals analysis: Yes / No
MW-13			9:00	3	{ }			{ }		MTBE / BTX ONLY (EPA 602 / 8021)		
MW-14			10:00	3	{ }			{ }		TPH as Diesel / Motor Oil (8015)		
										Total Petroleum Oil & Grease (1664 / 5520 E/B&F)		
										Total Petroleum Hydrocarbons (418.1)		
										EPA 502.2 / 601 / 8010 / 8021 (HVOCS)		
										EPA 505 / 608 / 8081 (CI Pesticides)		
										EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners		
										EPA 507 / 8141 (NP Pesticides)		
										EPA 515 / 8151 (Aroclite CI Herbicides)		
										EPA 524.2 / 624 / 8260 (VOCs)		
										EPA 525.2 / 625 / 8270 (SVOCs)		
										EPA 8270 SIM / 8310 (PAHs / PNAs)		
										CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)		
										LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)		
										Lead (200.7 / 200.8 / 6010 / 6020)		

Relinquished By: Received By: Date: 6/11 Time: 10:00

Relinquished By: Received By: Date: 6/11 Time: 10:00

Relinquished By: Received By: Date: 6/11 Time: 10:00

ICE/T# 32  
GOOD CONDITION /  
HEAD SPACE ABSENT /  
DECHLORINATED IN LAB /  
APPROPRIATE CONTAINERS /  
PRESERVED IN LAB /

COMMENTS:

VOAS	O&G	METALS	OTHER
PRESERVATION	PH<2		

Do you need this report emailed?  
Yes \_\_\_\_\_ No \_\_\_\_\_

# McCampbell Analytical, Inc.

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

## CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0806295

ClientCode: GCF

WriteOn  EDF  Excel  Fax  Email  HardCopy  ThirdParty  J-flag

Report to:

Glenn Reierstad  
Groundwater Cleaners  
347 Frederick Street  
San Francisco, CA 94117  
415-577-9383 FAX 415-566-3556

Email: reierstad@msn.com  
cc:  
PO:  
ProjectNo: #301; German Autocraft

Bill to:

Glenn Reirstad  
Groundwater Cleaners  
347 Frederick Street  
San Francisco, CA 94117

Requested TAT: 5 days

Date Received: 06/11/2008

Date Printed: 06/12/2008

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
0806295-001	MW-12	Water	6/11/2008 8:00	<input type="checkbox"/>	A	A										
0806295-002	MW-13	Water	6/11/2008 9:10	<input type="checkbox"/>	A											
0806295-003	MW-14	Water	6/11/2008 10:15	<input type="checkbox"/>	A											

Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Maria 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.

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## Sample Receipt Checklist

Client Name: **Groundwater Cleaners**Date and Time Received: **06/11/08 3:54:12 PM**Project Name: **#307; German Autocraft**Checklist completed and reviewed by: **Maria Venegas**WorkOrder N°: **0806295** Matrix WaterCarrier: Rob Pringle (MAI Courier)

### Chain of Custody (COC) Information

- |   |   |                             |
|---|---|-----------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

### Sample Receipt Information

- |  |   |                             |  |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |

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

- |   |   |                             |   |
|---|---|-----------------------------|---|
| All samples received within holding time?           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Container/Temp Blank temperature                    | Cooler Temp:                            | 3.2°C                       | NA <input type="checkbox"/>                     |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Sample labels checked for correct preservation?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| TTLC Metal - pH acceptable upon receipt (pH<2)?     | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |

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

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

Groundwater Cleaners 347 Frederick Street San Francisco, CA 94117	Client Project ID: #301; German Autocraft	Date Sampled: 06/11/08
		Date Received: 06/11/08
	Client Contact: Glenn Reierstad	Date Extracted: 06/13/08
	Client P.O.:	Date Analyzed 06/13/08

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

Extraction method SW5030B

#### Analytical methods SW8021B/8015Cm

Work Order: 0806295

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

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

# cluttered chromatogram: sample peak coelutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation.

d1) weakly modified or unmodified gasoline is significant

d2) heavier gasoline range compounds are significant (aged gasoline?)



## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0806295

EPA Method SW8021B/8015Cm		Extraction SW5030B				BatchID: 36215				Spiked Sample ID: 0806281-001A			
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	
TPH(btex) <sup>f</sup>	ND	60	96.1	93.6	2.63	89.2	83.7	6.35	70 - 130	20	70 - 130	20	
MTBE	ND	10	97.8	111	12.4	101	109	7.59	70 - 130	20	70 - 130	20	
Benzene	ND	10	94.6	96.1	1.60	96.5	96	0.477	70 - 130	20	70 - 130	20	
Toluene	ND	10	105	106	1.42	107	103	3.60	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	10	104	104	0	104	96.9	7.12	70 - 130	20	70 - 130	20	
Xylenes	ND	30	115	114	0.506	115	94	1.5 - FAILE	70 - 130	20	70 - 130	20	
%SS:		87	10	95	94	0.768	97	93	4.29	70 - 130	20	70 - 130	20

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

NONE

### BATCH 36215 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0806295-001A	06/11/08 8:00 AM	06/13/08	06/13/08 7:34 AM	0806295-002A	06/11/08 9:10 AM	06/13/08	06/13/08 5:03 AM

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

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

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

<sup>f</sup> TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.



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 Telephone: 877-252-9262 Fax: 925-252-9269

## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0806295

EPA Method SW8021B/8015Cm		Extraction SW5030B				BatchID: 36236				Spiked Sample ID: 0806298-001A			
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	
TPH(btex) <sup>f</sup>	ND	60	92.6	105	13.0	85.3	92.1	7.62	70 - 130	20	70 - 130	20	
MTBE	ND	10	109	112	2.52	105	107	1.93	70 - 130	20	70 - 130	20	
Benzene	ND	10	92.4	88.1	4.74	87.2	94.7	8.27	70 - 130	20	70 - 130	20	
Toluene	ND	10	82.8	83.7	1.15	78.5	85.2	8.20	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	10	92.2	87.5	5.28	86.7	93.9	8.04	70 - 130	20	70 - 130	20	
Xylenes	ND	30	90.7	86.5	4.81	85.7	92	7.04	70 - 130	20	70 - 130	20	
%SS:	98	10	99	101	2.80	95	97	2.21	70 - 130	20	70 - 130	20	

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

NONE

### BATCH 36236 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0806295-003A	06/11/08 10:15 AM	06/13/08	06/13/08 5:33 AM				

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

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

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

<sup>f</sup> TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.