

By Alameda County Environmental Health at 3:41 pm, Apr 30, 2014

Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Document Transmittal

German Autocraft, 301 East 14<sup>th</sup> Street, San Leandro, California AC LOP Case # 2783; Fuel Leak Case No. RO0000302; Global ID T0600100639

Dear Sir or Ma'am:

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

1 the ho

Sincerely,

Lee Seung

Owner, German Autocraft



October 30, 2013 Project No. 2076-0301-01

Mr. Mark Detterman, P.G., C.E.G. Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Semi-Annual Groundwater Monitoring Report – Second and Third Quarters 2013 German Autocraft, 301 East 14<sup>th</sup> Street, San Leandro, California Fuel Leak Case No. RO0000302; Global ID T0600100639

Dear Mr. Detterman:

Stratus Environmental, Inc. (Stratus) is submitting the attached report presenting a summary of work performed at the site during the second and third quarters 2013 on behalf of Mr. Seung Lee for the German Autocraft facility, located at 301 East 14<sup>th</sup> Street, San Leandro, California. Stratus representatives, whose signatures appear below, declare under penalty of perjury, that the information contained in the attached report are true and correct to the best of our knowledge.

If you have any questions regarding this project, please contact Trevor Hartwell at (530) 313-9966.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Trevor M. Hartwell, P.G.

Project Manager

Kasey Jones Senior Geologist

Attachment: Semi-Annual Groundwater Monitoring Report, Second and Third Quarters 2013

HARTWELL No. 8774

cc: Mr. Seung Lee

Ms. Cherie McCaulou, RWQCB-SF

Mr. Ramirez

## GERMAN AUTOCRAFT FACILITY SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility Address: 301 East 14<sup>th</sup> Street, San Leandro, California

Consulting Co./Contact Person: Stratus Environmental, Inc. / Trevor Hartwell

Consultant Project No: 2076-0301-01

Primary Agency/Regulatory ID No: Mr. Mark Detterman, Alameda County Environmental Health

Department (ACEHD) Fuel Leak Case No. RO0000302; Global ID

T0600100639

#### WORK PERFORMED THIS PERIOD (Second and Third Quarters 2013):

- On September 9, 2013, Stratus conducted semi-annual groundwater monitoring and sampling activities at the site. During this event, groundwater monitoring wells MW-2, MW-3, MW-8 through MW-11, MW-13, MW-14, and MW-1A were gauged for depth to water and evaluated for the presence of free product, purged, and groundwater samples were collected. All groundwater samples were forwarded to a state-certified analytical laboratory for analysis. Well construction details are summarized in Table 1. Tabulated historical groundwater elevation and analytical results are summarized in Table 2.
- ACEHD, in correspondence dated September 30, 2013, provided comments for various documents submitted by Stratus and requested a Site Conceptual Model (SCM) and a Feasibility Study Corrective Action Plan (FS/CAP) Implementation Plan be developed and submitted during the fourth quarter 2013. ACEHD also requested a Draft Fact Sheet be developed and submitted for ACEHD review, as required by the FS/CAP process.

#### WORK PROPOSED FOR NEXT PERIOD (Fourth Quarter 2013 and First Quarter 2014):

- 1. In accordance with SWRCB's Resolution No. 2009-0042, no groundwater monitoring or sampling activities are planned during the fourth quarter 2013. Stratus will conduct monitoring and sampling activities during the first quarter 2013.
- 2. During the fourth quarter, Stratus will prepare and submit the ACEHD requested reports and Draft Fact Sheet.

Current Phase of Project:	Remedial Selection / Interim Remedial Action (RS/IRA)
Frequency of Groundwater Monitoring:	All Wells = Semi-annually (1 <sup>st</sup> and 3 <sup>rd</sup> quarters)
Frequency of Groundwater Sampling:	MW-8, -9, -10, -12, -13, -14, -1A, 141 Farrelly = (1Q & 3Q) MW-2, -3, -5, -11 = (3Q)
Groundwater Sampling Date:	September 9, 2013
Is Free Product (FP) Present on Site:	No
Approximate Depth to Groundwater:	25.71 to 27.87 feet below top of well casing
Groundwater Flow Direction:	West
Groundwater Gradient:	0.003 ft/ft

#### DISCUSSION:

On September 9, 2013, Stratus conducted semi-annual groundwater monitoring and sampling activities at the site. During this event, groundwater monitoring wells MW-2, MW-3, MW-8 through MW-11, MW-13,

MW-14, and MW-1A were monitored for depth to water measurements and evaluated for the presence of free product, dissolved oxygen (DO), temperature, pH, oxygen reduction potential (ORP), conductivity, purged, and sampled. Well MW-5 was dry at the time of gauging and was unable to be sampled, and depth to water collection was inadvertently missed in well MW-12 during this event. Additionally, the owner of the 141 Farrelly domestic well was unable to be contacted, and no sample was able to be collected during the third quarter 2013 sampling event. All groundwater samples collected were analyzed at a state-certified analytical laboratory for gasoline range organics (GRO) by EPA Method SW8015B/SW8260B, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) by EPA Method SW8260B. Field data sheets, sampling procedures, and the laboratory analytical report are included as Attachments A, B, and C, respectively. Analytical results of sampled wells and depth to groundwater measurements have been uploaded to the State of California's GeoTracker database. Documentation of these data uploads is attached in Appendix D.

Eleven groundwater monitoring wells (MW-2, MW-3, MW-5, MW-8 through MW-14, and MW-1A) are installed to depths ranging from approximately 30 to 40 feet below ground surface (bgs) and monitor groundwater occurrence and quality in the uppermost water-bearing zone beneath the site. At the time of the third quarter 2013 monitoring event, groundwater elevations in all gauged wells had decreased between 2.70 and 2.95 feet since the previous monitoring event (March 5, 2013). Depth-to-water measurements were converted to feet above mean sea level (MSL) and used to construct a groundwater elevation contour map (Figure 2). The groundwater flow direction was generally to the west at an average gradient of approximately 0.003 ft/ft. Although the groundwater flow direction varies predominantly between west and southwest, there does not appear to be a seasonal trend in either direction.

Groundwater beneath the site is impacted with GRO and BTEX. During the third quarter 2013 sampling event, concentrations of GRO were reported in samples collected from wells MW-2 (7,400 micrograms per liter [ $\mu$ g/L]), MW-3 (1,100  $\mu$ g/L), MW-8 (880  $\mu$ g/L), MW-9 (4,400  $\mu$ g/L), MW-10 (4,400  $\mu$ g/L), MW-12 (1,600  $\mu$ g/L), and MW-1A (3,200  $\mu$ g/L). Low levels of benzene were reported only in wells MW-2 (5.3  $\mu$ g/L) and MW-10 (16  $\mu$ g/L) during the third quarter 2013; however the laboratory noted that reporting limits for wells MW-9 and MW-1A were increased due to high concentrations of target analytes. Samples collected from monitoring wells MW-13 and MW-14 reported no concentrations of any sampled analytes during the third quarter 2013 sampling event. An iso-concentration map illustrating GRO concentrations is included as Figure 3. A concentration map illustrating benzene concentrations is included as Figure 4.

#### **ATTACHMENTS:**

- Table 1 Well Construction Details
- Table 2 Groundwater Elevation and Analytical Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map (Third Quarter 2013)
- Figure 3 GRO Iso-concentration Contour Map (Third Quarter 2013)
- Figure 4 Benzene Concentration Map (Third Quarter 2013)
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Report and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Confirmations

#### TABLE 1 WELL CONSTRUCTION DETAILS

II.	12/17/91	5		(inches)	(feet)	Interval (feet bgs)	Size (inches)	Method	
II.									
MW-2 1	10/10/04	45	8	2	45	25-45	0.02	HSA	Environmental Const. Co.
	12/12/94	38	8	2	34	24-34	0.010	HSA	Chemist Enterprises
MW-3 1	12/12/94	38	8	2	35.5	25.5-35.5	0.010	HSA	Chemist Enterprises
MW-4* 0	08/31/95	36.5	8	2	34	24-34	0.010	HSA	Chemist Enterprises
MW-1A 0	05/21/97	35	8	2	35	20-35	0.010	HSA	ALLCAL Prop. Serv. Inc.
MW-5 0	08/28/98	31.5	8	2	30	20-30	0.020	HSA	Env. Testing & Mgmt.
MW-6 0	08/27/98	36.5	8	2	35	20-35	0.020	HSA	Env. Testing & Mgmt.
MW-8 0	08/27/98	31.5	8	2	30	20-30	0.020	HSA	Env. Testing & Mgmt.
MW-9 0	08/31/98	36.5	8	2	35	20-35	0.020	HSA	Env. Testing & Mgmt.
MW-10 0	08/28/98	41.5	8	2	40	20-40	0.020	HSA	Env. Testing & Mgmt.
MW-11 0	08/28/98	36.5	8	2	35	20-35	0.020	HSA	Env. Testing & Mgmt.
MW-12 0	01/30/01	39.5	8	2	38	23-38	0.020	HSA	Env. Testing & Mgmt.
MW-13 0	01/30/01	39.5	8	2	38	23-38	0.020	HSA	Env. Testing & Mgmt.
MW-14 0	01/31/01	31.5	8	2	30	20-30	0.020	HSA	Env. Testing & Mgmt.
141 Farrelly Pri	ior to 1949			6	65	25-65	unknown	unknown	
Soil Borings									
B-1 1	12/11/90	35	8					HSA	Environmental Const. Co.
B-2 1	12/10/90	35	8					HSA	Environmental Const. Co.
B-3 1	12/10/90	35	8					HSA	Environmental Const. Co.
CE-1 1	12/13/94	30	8					HSA	Chemist Enterprises
CE-2 1	12/13/94	24.5	8					HSA	Chemist Enterprises
ETM-1 1	11/28/95	37	1					Geoprobe	Env. Testing & Mgmt.
ETM-2 1	11/28/95	30	1					Geoprobe	Env. Testing & Mgmt.
ETM-5 11/	/28-29/95	27	1					Geoprobe	Env. Testing & Mgmt.
ETM-6 1	11/29/95	29	1					Geoprobe	Env. Testing & Mgmt.
ETM-6 1	1/29/95	28	1					Geoprobe	Env. Testing & Mgmt.
ETM-10 1	1/30/95	27.3	1.5					Pneumatic	Env. Testing & Mgmt.
	1/30/95	27.3	1.5					Pneumatic	Env. Testing & Mgmt.
1	3/25/96	30	1.5					Pneumatic	Env. Testing & Mgmt.
	3/25/96	30	1.5					Pneumatic	Env. Testing & Mgmt.
	3/26/96	24.5	1.5					Pneumatic	Env. Testing & Mgmt.
l .	3/26/96	24.5	1.5					Pneumatic	Env. Testing & Mgmt.

TABLE 1
WELL CONSTRUCTION DETAILS

German Autocraft, 301 E. 14th Street, San Leandro, California

Boring/Well I.D.	Date	Boring Depth (feet bgs)	Boring Diameter (inches)	Well Diameter (inches)	Well Depth (feet)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method	Consultant
G TIL D	,								
Soil Vapor Poil SV-1	01/06/09	30	2	0.25	6.0 13.5	5.5-6.0 13.0-13.5	 	Stratoprobe	Groundwater Cleaners, Inc.
SV-2	01/06/09	30	2	0.25	6.0 13.0	5.5-6.0 12.5-13.0		Stratoprobe	Groundwater Cleaners, Inc.
SV-3	01/08/09	30	2	0.25	5.5 13.5	5.0-5.5 13.0-13.5		Stratoprobe	Groundwater Cleaners, Inc.
SV-4	01/08/09	14.5	2	0.25	5.25 14.5	4.75-5.25 14.0-14.5		Stratoprobe	Groundwater Cleaners, Inc.
SV-5	01/07/09	24	2	0.25	5.25 14.0	4.75-5.25 13.5-14.0		Stratoprobe	Groundwater Cleaners, Inc.
SV-6	01/07/09	35	2	0.25	5.5 12.0	5.0-5.5 11.5-12.0		Stratoprobe	Groundwater Cleaners, Inc.
SV-7	01/06/08	30	2	0.25	6.0 13.0	5.5-6.0 12.5-13.0		Stratoprobe	Groundwater Cleaners, Inc.
SV-8	01/08/09	14	2	0.25	5.25 14.0	4.75-5.25 13.5-14.0		Stratoprobe	Groundwater Cleaners, Inc.

Notes:

ft bgs = feet below ground surface

HSA = hollow stem auger

\* = monitoring wells properly destroyed on January 25, 2011

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	TAME (μg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-1	12/21/90	30.25	49.61	19.15									 			
	12/31/90		49.61		51,000	2,200	1,200	< 0.5	760				 			
	01/06/95		49.61		110,000	13,000	15,000	4,800	13,000				 			
	01/06/95		49.61		580,000	29,000	41,000	17,000	43,000				 			
	02/10/95	20.02	49.61	29.59									 			
	07/07/95	22.77	49.40	26.63	49,000	8,000	17,000	1,900	9,700				 			
	08/10/95	23.82	49.40	25.58									 			
	09/11/95	24.72	49.40	24.68									 			
	10/02/95	25.28	49.40	24.12	120,000	16,000	36,000	3,300	17,000				 			
	10/02/95		49.40		160,000	20,000	47,000	5,000	23,000				 			
	11/07/95	26.04	49.40	23.36									 			
	12/08/95	18.77	49.40	22.77									 			
	01/12/96	25.05	49.40	24.35	1,100,000	11,000	18,000	15,000	51,000	18,000 [2]			 			
	01/12/96		49.40		98,000	2,100	4,600	2,500	10,000	<5,000			 			
	02/12/96	20.36	49.40	29.04									 			
	03/12/96	17.65	49.40	31.75									 			
	04/13/96	19.97	49.40	29.43	53,000	1,300	2,900	2,100	10,000	<5,000			 			
	04/13/96		49.40		58,000	820	3,600	2,800	12,000	<5,000			 			
1	05/14/96	21.51	49.40	27.89									 			
	06/20/96	22.21	49.40	27.19									 			
	07/26/96	23.45	49.40	25.95	91,000	2,600	7,200	2,900	14,000	<5,000			 			
	07/26/96		49.40		67,000	2,300	5,500	2,500	11,000	<5,000			 			
	08/19/96	24.24	49.40	25.16									 			
	09/17/96	24.96	49.40	24.44									 			
	10/21/96	25.77	49.40	23.63	210,000	4,800	17,000	2,300	15,000				 			
	10/21/96		49.40		210,000	5,400	18,000	2,600	11,000				 			
	11/27/96	25.12	49.40	24.28									 			
	12/27/96	21.17	49.40	28.23									 			
	01/28/97	16.38	49.40	33.02	120,000	5,600	15,000	2,100	11,000				 			
	01/28/97		49.40		130,000	5,500	15,000	2,300	12,000				 			
	04/25/97	22.26	49.40	27.14	180,000	6,900	20,000	2,600	13,000				 			
	04/25/97		49.40		170,000	6,500	20,000	2,500	13,000				 			
	07/17/97	24.85	49.40	24.55	220,000	8,300	41,000	2,700	16,000				 			
	10/21/97	26.55	49.40	22.85	240,000	9,400	33,000	3,300	22,000				 			
	03/10/98	15.05	49.40	34.35	120,000	11,000	46,000	3,700	21,000				 			
	06/06/98	18.71	49.40	30.69	110,000	7,600	32,000	4,800	23,000				 			
	09/30/98	23.45	49.40	25.95	140,000	5,800	29,000	3,500	18,000				 			
	12/30/98	24.27	49.40	25.13	78,000	5,200	24,000	3,200	19,000				 			

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-1	03/13/99	19.42	49.40	29.98										 		
(con't)	03/23/99		49.40		250,000	8,000	43,000	5,200	27,000					 		
	09/29/99	25.01	49.40	24.39	140,000	6,100	35,000	5,400	27,000					 		
	12/29/99	25.65	49.40	23.75										 		
	03/18/00	17.48	49.40	31.92	120,000	5,100	33,000	4,600	24,000					 		
	07/18/00	23.19	49.40	26.21										 		
	09/26/00	24.39	49.40	25.01										 		
	12/28/00	24.77	49.40	24.63										 		
	03/20/01		49.40		100,000	3,600	41,000	4,700	25,000	<1,250				 		
	03/30/01	21.93	49.40	27.47										 		
	10/05/01	25.58	49.40	23.82										 		
	03/28/02	20.74	49.40	28.66	100,000	2,800	24,000	5,400	28,900					 		
	03/31/03	22.72	49.40	26.68	100,000	2,200	19,000	4,900	21,000					 		
	06/19/03	23.17	49.40	26.23										 		
	09/30/03	25.35	49.40	24.05										 		
	02/10/04	22.44	49.40	26.96										 		
	03/31/04		49.40		100,000	2,100	21,000	6,200	36,000					 		
	06/30/04	24.67	49.40	24.73		, 								 		
	09/14/04	27.89	49.40	21.51	160,000	1,800	16,000	5,500	30,000					 		
	03/29/06	18.84	49.40	30.56	69,000	1,400	16,000	4,900	28,000					 		
	06/24/06	20.57	49.40	28.83			,		,					 		
	09/30/06	23.53	49.40	25.87	120,000	1,400	13,000	5,200	29,000	<500				 		
	12/11/06	22.78	49.40	26.29			,							 		
	03/16/07		49.40											 		
	06/10/07	24.36	49.40	25.04										 		
	09/14/07	25.92	49.40	23.48	92,000	1,000	9,400	4,300	23,000	<250				 		
	12/14/07	26.22	49.40	23.18										 		
	03/12/08	22.4	49.40	27										 		
	06/11/08	24.97	49.40	24.43										 		
	09/05/08	26.44	49.40	22.96	110,000	1,000	11,000	4,200	21,000	<250				 		
	12/13/08	27.16	49.40	22.24										 		
	03/14/09	21.82	49.40	27.58	110,000	1,000	14,000	3,700	21,000	<1,000				 		
	12/07/09	26.42	49.40	22.98	49,000	540	5,500	2,000	9,400	<100				 		
	03/15/10	21.21	49.40	28.19				2,000						 		
	09/13/10	25.25	49.40	24.15	75,000	670	9,400	3,700	19,000	<50[5]				 <100[5]	<200[5]	89
	03/01/11	<i>L2,L3</i>	77.70	27.13	, 3,000	070	2,400		Destroyed	-50[5]				100[0]	200[0]	0)

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-2	01/06/95				980,000	9,400	5,600	19,000	42,000					 		
	02/10/95	20.52	50.14	29.62										 		
	07/07/95	23.55	50.02	26.47	71,000	5,300	1,800	6,100	9,000					 		
	08/10/95	24.62	50.02	25.4										 		
	09/11/95	25.53	50.02	24.49										 		
	10/02/95	26.08	50.02	23.94	40,000	2,900	200	2,800	3,600					 		
	11/07/95	26.89	50.02	23.13										 		
	12/08/95	27.47	50.02	22.55										 		
	01/12/96	25.82	50.02	24.2	260,000	2,600	2,200	6,300	7,800	<12,500				 		
	02/12/96	20.99	50.02	29.03										 		
	03/12/96	18.42	50.02	31.6										 		
	04/13/96	20.77	50.02	29.25	30,000	1,900	370	2,300	2,400	520 [2]				 		
	04/29/96		50.02			930	<25	1,200	1,400					 		
	05/14/96	22.34	50.02	27.68										 		
	06/20/96	23.05	50.02	26.97										 		
	07/26/96	24.28	50.02	25.74	180,000	1,400	640	2,100	5,000	<5,000				 		
	08/19/96	25.05	50.02	24.97										 		
	09/17/96	25.8	50.02	24.22										 		
	10/21/96	26.59	50.02	23.43	62,000	2,100	< 0.5	2,100	2,700					 		
	11/27/96	25.93	50.02	24.09										 		
	12/27/96	21.99	50.02	28.03										 		
	01/28/97	17.31	50.02	32.71	46,000	1,500	94	1,800	2,000					 		
	04/25/97	23.14	50.02	26.88	23,000	790	26	820	730					 		
	07/17/97	25.71	50.02	24.31	95,000	2,200	< 0.5	3,100	4,300					 		
	10/21/97	27.33	50.02	22.69	31,000	2,000	< 0.5	2,100	1,900					 		
	03/10/98	15.82	50.02	34.2	19,000	730	44	820	1,000					 		
	06/06/98	19.61	50.02	30.41	16,000	670	1,100	510	1,200					 		
	09/30/98	24.34	50.02	25.68	24,000	600	77	680	580					 		
	12/30/98	25.09	50.02	24.93	9,300	510	96	450	480					 		
	03/13/99	20.22	50.02	29.8										 		
	03/23/99		50.02		5,700	580	9.4	400	280					 		
	09/29/99	25.9	50.02	24.12	17,000	880	240	830	1,000					 		
	12/29/99	26.5	50.02	23.52	11,000	800	11	860	780					 		
	03/18/00	18.15	50.02	31.87	11,000	790	14	520	450					 		
	07/18/00	24.01	50.02	26.01	10,000	560	27	630	530					 		
	09/26/00	25.33	50.02	24.69	6,800	450	7.4	290	200					 		
	12/28/00	25.63	50.02	24.39	12,000	540	30	420	330					 		
	03/30/01	22.71	50.02	27.31	3,500	230	<10	<10	<10	<100				 		

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-2	10/05/01	26.38	50.02	23.64													
(con't)	03/28/02	21.59	50.02	28.43	7,000	570	16	170	71								
	09/30/02	25.84	50.02	24.18													
	03/31/03	23.63	50.02	26.39	5,000	620	<12.5	71	<25								
	06/19/03	23.98	50.02	26.04													
	09/30/03	26.19	50.02	23.83													
	02/10/04	23.27	50.02	26.75													
	03/31/04		50.02		8,200	500	<12.5	65	<25								
	06/30/04	25.45	50.02	24.57													
	09/14/04	26.7	50.02	23.32	9,000	560	<13	57	<25								
	03/29/06	19.61	50.02	30.41	5,200	1,400	<20	52	<20								
	06/24/06	21.41	50.02	28.61													
	09/30/06	24.37	50.02	25.65	4,800	900	64	22	110	<50							
	12/11/06	23.92	50.02	26.1													
	03/16/07	22.78	50.02	27.24													
	06/10/07	25.12	50.02	24.9													
	09/14/07	26.63	50.02	23.39	11,000	2,200	53	72	150	<50							
	12/14/07	26.58	50.02	23.44													
	03/12/08	23.1	50.02	26.92													
	06/11/08	25.71	50.02	24.31													
	09/05/08	27.14	50.02	22.88	10,000	1,000	49	120	120	<100							
	12/13/08	27.83	50.02	22.19													
	03/14/09	22.38	50.02	27.64	9,800	270	28	210	110	<110							
	06/03/09	25.27	50.02	24.75													
	12/07/09	27.11	50.02	22.91	9,000	150	48	170	110	<50							
	03/15/10	21.98	50.02	28.04													
	09/13/10	26.11	50.02	23.91	9,900	93	<5.0[5]	100	13[5]	<5.0[5]					<10[5]	<20[5]	18
	03/01/11	21.55	50.02	28.47													
	09/08/11	24.98	50.02	25.04	7,500	680	13	17	7.4[5]								
	03/06/12	26.11	50.02	23.91													
	07/11/12	24.86	50.02	25.16	6,100	31	2.2	33	3.0								
	03/05/13	24.69	50.02	25.33													
	09/09/13	27.64	50.02	22.38	7,400	5.3	<4.0[5]	84	11								

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (μg/L)	Lead (Pb) (µg/L)
MW-3	01/06/95		49.32		740,000	11,000	2,300	8,300	28,000				 			
	02/10/95	19.75	49.32	29.57									 			
	07/07/95	22.82	49.32	26.5	86,000	12,000	8,600	4,900	19,000				 			
	08/10/95	23.88	49.32	25.44									 			
	09/11/95	24.78	49.32	24.54									 			
	10/02/95	25.32	49.32	24	100,000	15,000	11,000	6,000	20,000				 			
	11/07/95	26.11	49.32	23.21									 			
	12/08/95	26.7	49.32	22.62									 			
	01/12/96	25.07	49.32	24.25	84,000	6,500	4,100	3,200	12,000	<5,.000			 			
	02/12/96	20.32	49.32	29									 			
	03/12/96	17.65	49.32	31.67									 			
	04/13/96	20.06	49.32	29.26	48,000	7,600	3,600	2,800	9,400	<2,500			 			
	05/14/96	21.61	49.32	27.71									 			
	06/20/96	22.32	49.32	27									 			
	07/26/96	23.65	49.32	25.67	62,000	6,400	3,100	3,000	11,000	<2,500			 			
	08/19/96	24.31	49.32	25.01									 			
	09/17/96	25.05	49.32	24.27									 			
	10/21/96	25.84	49.32	23.48	110,000	5,400	2,400	2,500	9,800				 			
	11/27/96	25.19	49.32	24.13									 			
	12/27/96	21.21	49.32	28.11									 			
	01/28/97	16.54	49.32	32.78	130,000	5,500	15,000	2,300	12,000				 			
	04/25/97	22.38	49.32	26.94	180,000	6,900	20,000	2,600	13,000				 			
	07/17/97	24.95	49.32	24.37	69,000	5,100	1,100	1,800	8,600				 			
	10/21/97	26.59	49.32	22.73	58,000	4,300	1,300	2,100	8,000				 			
	03/10/98	15.19	49.32	34.13	25,000	3,000	1,300	1,100	3,700				 			
	06/06/98	18.85	49.32	30.47	52,000	4,400	1,900	2,300	6,900				 			
	09/30/98	23.57	49.32	25.75	42,000	4,300	1,400	1,800	6,600				 			
	12/30/98	24.33	49.32	24.99	34,000	4,200	770	2,300	9,000				 			
	03/13/99	19.49	49.32	29.83	44,000	3,500	1,000	1,700	5,200				 			
	09/29/99	25.12	49.32	24.2	39,000	6,000	840	2,400	8,100				 			
	12/29/99	25.72	49.32	23.6	39,000	4,600	790	2,400	8,100				 			
	03/18/00	17.5	49.32	31.82	21,000	3,100	550	1,400	4,100				 			
	07/18/00	23.28	49.32	26.04	30,000	5,000	950	2,000	5,700				 			
	09/26/00	24.52	49.32	24.8	36,000	5,300	640	2,400	9,900				 			
	12/28/00	24.32	49.32	24.45	33,000	4,700	450	2,400	6,400				 <u></u>			
	03/20/01	24.07	49.32	24.43 	21,000	2,000	260	2,100 570	3,000	<500			 			
	03/20/01		49.32				200			<b>\300</b>			 			
	10/05/01	21.93 25.62	49.32	27.39 23.7				<del></del>					 			

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)		1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-3	03/28/02	20.83	49.32	28.49									 			
(con't)	09/30/02	25.2	49.32	24.12									 			
	03/31/03	22.82	49.32	26.5	25,000	3,200	280	1,600	4,200				 			
	06/19/03	23.29	49.32	26.03									 			
	09/30/03	25.5	49.32	23.82									 			
	02/10/04	22.53	49.32	26.79									 			
	03/31/04		49.32		11,000	1,000	940	550	1,900				 			
	06/30/04	24.73	49.32	24.59									 			
	09/14/04	27.93	49.32	21.39	42,000	3,600	190	2,200	4,800				 			
	03/29/06	18.87	49.32	30.45	7,200	180	17	460	680				 			
	06/24/06	22.65	49.32	26.67									 			
<u> </u>	09/30/06	24.49	49.32	24.83	7,100	130	94	500	820	<50			 			
	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	6,700	16	44	200	400	<10			 			
	12/14/07	25.96	49.32	23.36									 			
	03/12/08	22.31	49.32	27.01									 			
	06/11/08	24.8	49.32	24.52									 			
	09/05/08	26.23	49.32	23.09	6,300	7.6	82	92	290	<5.0			 			
	12/13/08	26.93	49.32	22.39									 			
	03/14/09	21.65	49.32	27.67	3,300	13	17	56	140	<50			 			
	12/07/09	26.2	49.32	23.12	2,800	13	43	74	150	<50			 			
	03/15/10	21.15	49.32	28.17									 			
	09/13/10	25.20	49.32	24.12	1,400	< 0.50	< 0.50	5.3	2.9	< 0.50			 	<1.0	<2.0	22
	03/01/11	20.66	49.32	28.66									 			
	09/08/11	24.19	49.32	25.13	1,000	29	2.1	29	6.7				 			
	03/06/12	25.22	49.32	24.10									 			
	07/11/12	24.06	49.32	25.26	460	< 0.50	< 0.50	< 0.50	< 0.50				 			
	03/05/13	23.84	49.32	25.48									 			
	09/09/13	26.62	49.32	22.70	1,100	<0.50	<0.50	0.98	<0.50				 			

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-4	12/30/98	24.56	49.61	25.05	12,000	1,200	1,100	290	1,400					 		
	03/13/99	19.72	49.61	29.89										 		
	03/23/99		49.61		89,000	5,900	8,700	2,000	9,200					 		
	09/29/99	25.34	49.61	24.27	48,000	5,300	6,800	1,700	7,700					 		
	12/29/99	25.97	49.61	23.64										 		
	03/18/00	17.76	49.61	31.85	44,000	4,500	7,500	2,200	11,000					 		
	12/28/00	25.09	49.61	24.52										 		
	03/30/01	22.21	49.61	27.4	10,000	700	620	<10	1,900	<100				 		
	10/05/01	25.84	49.61	23.77										 		
	03/28/02	21.03	49.61	28.58	30,000	3,700	3,100	1,100	4,100					 		
	09/30/02	25.29	49.61	24.32										 		
	03/31/03	23.02	49.61	26.59	25,000	2,000	2,100	820	2,900					 		
	06/19/03	23.45	49.61	26.16										 		
	09/30/03	25.65	49.61	23.96										 		
	03/31/04		49.61		24,000	2,500	200	1,400	2,800					 		
	09/14/04	28.16	49.61	21.45	14,000	760	550	430	1,600					 		
	03/29/06	19.87	49.61	29.74	17,000	2,000	1,200	910	2,400					 		
	06/24/06	22.86	49.61	26.75										 		
	09/30/06	23.94	49.61	25.67	4,000	440	120	240	360	<50				 		
	12/11/06	23.36	49.61	26.25										 		
	03/16/07	22.26	49.61	27.35										 		
	06/10/07	24.6	49.61	25.01										 		
	09/14/07	26.11	49.61	23.5	10,000	1,300	96	440	560	<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										 		
	09/05/08	26.64	49.61	22.97	12,000	1,400	110	960	840	<300				 		
	12/13/08	27.36	49.61	22.25										 		
	03/14/09	21.96	49.61	27.65	44,000	1,700	1,000	2,600	6,700	<250				 		
	12/07/09	26.6	49.61	23.01	26,000	920	160	2,100	3,200	<250				 		
	03/15/10	21.59	49.61	28.02										 		
	09/13/10	25.70	49.61	23.91	9,900	660	56	550	465	<2.5[5]				 <5.0[5]	<10[5]	<5.0[5]
	03/01/11							Well D	estroyed	= =						

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)		TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-5	12/30/98	24.51	49.57	25.06	170	1.1	<0.5	<0.5	4.8			 				
	03/13/99	19.64	49.57	29.93								 				
	03/22/99		49.57		470	3.8	0.51	2	< 0.5			 				
	09/29/99	25.31	49.57	24.26	1,200	13	4.2	2.7	4.2			 				
	03/18/00	25.93	49.57	23.64	660	5.5	0.62	1.6	1.7			 				
	03/28/02	17.63	49.57	31.94								 				
1	03/29/06		49.57		190	< 0.5	< 0.5	< 0.5	< 0.5			 				
	09/30/06	Dry	49.57	n/a								 				
	09/14/07	Dry	49.57	n/a								 				
	12/14/07	Dry	49.57	n/a								 				
	06/11/08	Dry	49.57	n/a								 				
	09/05/08	Dry	49.57	n/a								 				
	12/13/08	Dry	49.57	n/a								 				
	03/14/09	Dry	49.57	n/a								 				
	12/07/09	Dry	49.57	n/a								 				
	03/15/10	21.46	49.57	28.11								 				
	09/13/10	25.62	49.57	23.95	260	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		 		<1.0	<2.0	18
	03/01/11	21.05	49.57	28.52								 				
	09/08/11	24.46	49.57	25.11	210	< 0.50	< 0.50	< 0.50	< 0.50			 				
	03/06/12	25.64	49.57	23.93								 				
	07/11/12	24.38	49.57	25.19	170	< 0.50	< 0.50	< 0.50	< 0.50			 				
	03/05/13	24.20	49.57	25.37								 				
	09/09/13		49.57									 				

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)		1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-6	12/30/98	22.92	48.06	25.14	400	1	<0.5	<0.5	4.8			 	 		
ļ	03/13/99	18.09	48.06	29.97								 	 		
	03/22/99		48.06		390	< 0.5	< 0.5	< 0.5	< 0.5			 	 		
	09/29/99	23.68	48.06	24.38	330	1.8	1.4	1.5	< 0.5			 	 		
	12/29/99	24.31	48.06	23.75								 	 		
	03/18/00	16.2	48.06	31.86	200	1.3	< 0.5	< 0.5	< 0.5			 	 		
	07/18/00	21.84	48.06	26.22								 	 		
	09/26/00	23.11	48.06	24.95	240	1.5	< 0.5	< 0.5	< 0.5			 	 		
	12/28/00	23.45	48.06	24.61								 	 		
	03/20/01		48.06		160	< 0.5	< 0.5	< 0.5	< 0.5	<5.0		 	 		
	03/30/01	20.65	48.06	27.41								 	 		
	10/05/01	24.24	48.06	23.82								 	 		
	03/28/02	19.41	48.06	28.65	88	0.89	< 0.5	< 0.5	< 0.5			 	 		
	09/30/02	23.65	48.06	24.41								 	 		
	03/29/06		48.06									 	 		
	09/30/06	22.33	48.06	25.73	280	5.5	24	14	69	< 5.0		 	 		
	09/14/07	24.58	48.06	23.48	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0		 	 		
	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								 	 		
	09/05/08	25.1	48.06	22.96	84	0.92	0.76	1.7	3.5	< 5.0		 	 		
	12/13/08	25.81	48.06	22.25								 	 		
	06/03/09	23.2	48.06	24.86								 	 		
	03/15/10	19.87	48.06	28.19								 	 		
	09/13/10	23.92	48.06	24.14	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		 	 <1.0	< 2.0	30
	03/01/11		48.06									 	 		
	09/08/11		48.06									 	 		
	03/06/12							Well I	Destroyed						

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)		1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-8	12/30/98	24.21	49.35	25.14	2,200	70	0.94	26	15					 		
	03/13/99		49.35											 		
	03/23/99		49.35		2,300	34	1.1	15	13					 		
	09/29/99		49.35		8,800	140	< 50	53	<50					 		
	12/29/99		49.35		1,900	64	1	22	23					 		
	03/18/00		49.35		1,400	36	< 0.5	12	9.3					 		
	07/18/00		49.35		3,000	67	9.8	38	38					 		
	09/26/00		49.35		1,200	24	3	24	15					 		
	12/28/00		49.35		1,200	47	3.7	17	18					 		
	03/20/01		49.35		1,300	7.8	<2.5	<2.5	14	<25				 		
	03/30/01		49.35											 		
	10/05/01		49.35		1,800	28	<2.5	20	23					 		
	03/28/02		49.35		1,100	12	1.7	11	10.8					 		
	09/30/02		49.35		1,400	15	24	32	22					 		
	09/30/06	24.07	49.35	25.28	760	4.9	31	13	64	< 5.0				 		
	03/16/07		49.35		370	< 0.5	8.1	0.52	0.94	< 5.0				 		
	09/14/07	26.12	49.35	23.23	1,300	1.3	20	3	1.6	<5.0				 		
	12/14/07	26.35	49.35	23										 		
	03/12/08	22.65	49.35	26.7	520	1.4	11	3.9	5.6	<5.0				 		
	06/11/08	25.23	49.35	24.12										 		
	09/05/08	26.62	49.35	22.73	1,800	1.9	30	5	4	<25				 		
	12/13/08	27.3	49.35	22.05									`	 		
	03/14/09	21.8	49.35	27.55	950	3.1	42	36	180	< 5.0				 		
	06/03/09	24.83	49.35	24.52										 		
	12/07/09	26.58	49.35	22.77	2,200	2.2	42	10	19	< 5.0				 		
	03/15/10	21.48	49.35	27.87	90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50				 		
	09/13/10	25.58	49.35	23.77	550	< 0.50	< 0.50	1.7	< 0.50					 <1.0	<2.0	< 5.0
	03/01/11	21.12	49.35	28.23	120	< 0.50	< 0.50	< 0.50	< 0.50					 		
	09/08/11	24.58	49.35	24.77	150	< 0.50	< 0.50	< 0.50	< 0.50					 		
	03/06/12	25.65	49.35	23.70	410	< 0.50	< 0.50	1.0	< 0.50					 		
	07/11/12	24.47	49.35	24.88	130	< 0.50	< 0.50	< 0.50	< 0.50					 		
	03/05/13	24.28	49.35	25.07	160	< 0.50	< 0.50	< 0.50	< 0.50					 		
	09/09/13	27.11	49.35	22.24	880	<0.50	<0.50	1.7	<0.50					 		

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	TAME (μg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-9	12/30/98	23.98	48.77	24.79	25,000	23	<10	180	620				 			
	03/13/99	19.19	48.77	29.58									 			
	03/23/99		48.77		27,000	35	<20	600	920				 			
	09/29/99	24.72	48.77	24.05	42,000	140	130	1,000	1,700				 			
	12/29/99	25.32	48.77	23.45	1,100,000	1,200	1,300	4,300	8,700				 			
	03/18/00	17.31	48.77	31.46	17,000	89	46	10	600				 			
	07/18/00	22.94	48.77	25.83	12,000	39	8.2	540	760				 			
	09/26/00	24.16	48.77	24.61	11,000	19	<5	470	610				 			
	12/28/00	24.48	48.77	24.29	22,000	100	<100	610	770				 			
	03/20/01		48.77		8,200	40	<10	14	210	<100			 			
	03/30/01	21.65	48.77	27.12									 			
	10/05/01	25.23	48.77	23.54	77,000	<100	110	780	850				 			
	03/28/02	20.45	48.77	28.32	11,000	34	6.1	220	180				 			
	09/30/02	24.66	48.77	24.11	34,000	<125	140	240	370				 			
	03/31/03	22.44	48.77	26.33	6,200	<12.5	<12.5	130	87				 			
	06/19/03	22.87	48.77	25.9									 			
	09/30/03	25	48.77	23.77	9,700	52	<25	160	87				 			
	02/10/04	22.13	48.77	26.64									 			
	06/30/04	24.55	48.77	24.22									 			
	09/14/04	25.69	48.77	23.08	9,500	48	<25	93	< 50				 			
	03/29/06	16.74	48.77	32.03	6,200	<0.5	< 0.5	57	11				 			
	06/24/06	22.43	48.77	26.34									 			
	09/30/06	23.4	48.77	25.37	2,200	3.7	31	37	40	<17			 			
	12/11/06	22.78	48.77	25.99									 			
	03/16/07	21.76	48.77	27.01	3,200	2.2	37	18	2.9				 			
	09/14/07	25.5	48.77	23.27	2,600	1.4	28	13	3.2	< 5.0			 			
	12/14/07	25.83	48.77	22.94	2,000								 			
	03/12/08	22.08	48.77	26.69	2,800	2.3	32	12	5.3	<5.0			 			
	05/12/08	24.61	48.77	24.16	2,000	<i>2.3</i>			J.J 				 			
	09/05/08	26.04	48.77	22.73	3,800	2.5	40	6.1	2.8	<100			 			
	12/13/08	26.74	48.77	22.73	3,600	2.3			2.0				 			
	03/14/09	21.46	48.77	27.31	7,100	11	63	50	120	<50			 			
	06/03/09	24.21	48.77	24.56	7,100								 			
							34	18	22	< 5.0			 			
	12/07/09	26.03	48.77	22.74	3,600	4		18	<1.0	<1.0			 			
	03/15/10	20.91	48.77	27.86	2,900	1.1	<1.0						 	<4.0[5]	<8.0[5]	9.3
	09/13/10	24.93	48.77	23.84	4,500	<2.0[5]	<2.0[5]	15	<2.0[5]						~6.0[3]	<i>9.3</i>
	03/01/11	20.40	48.77	28.37	4,100	<1.0[5]	<1.0[5]	10	<1.0[5]				 			
	09/08/11	23.90	48.77	24.87	3,800	<1.0[5]	<1.0[5]	7.7	<1.0[5]				 			
	03/06/12	25.02	48.77	23.75	3,800	<1.5[5]	<1.5[5]	6.6	<1.5[5]				 			
	07/11/12	23.81	48.77	24.96	5,800	<2.0[5]	<2.0[5]	6.2	<2.0[5]				 			
	03/05/13	23.64	48.77	25.13	2,100	<2.0[5]	<2.0[5]	4.2	<2.0[5]				 			
	09/09/13	26.52	48.77	22.25	4,400	<1.5[5]	<1.5[5]	4.1	<1.5[5]				 			

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	1,2-DCA (μg/L)	EDB (μg/L)	Lead (Pb) (µg/L)
MW-10	12/30/98	25.15	49.93	24.78	6,900	130	19	140	210					 		
	03/13/99	20.62	49.93	29.31										 		
	03/23/99		49.93		6,600	150	33	240	170					 		
	09/29/99	26.13	49.93	23.8	9,300	60	38	280	150					 		
	12/29/99	26.7	49.93	23.23	5,800	87	10	420	180					 		
	03/18/00	18.67	49.93	31.26	3,800	180	11	220	120					 		
	07/18/00	24.38	49.93	25.55	9,100	120	33	210	130					 		
	09/26/00	25.59	49.93	24.34	4,500	22	8.8	1.3	18					 		
	12/28/00	25.9	49.93	24.03	3,900	55	13	98	38					 		
	03/30/01	23.14	49.93	26.79	4,500	48	6	<5	23	81 / <5.0				 		
	10/05/01	26.6	49.93	23.33	5,200	70	28	41	30					 		
	03/28/02	21.87	49.93	28.06	7,400	45	20	210	66					 		
	09/30/02	26.05	49.93	23.88	670	54	5.9	76	23					 		
	03/31/03	23.87	49.93	26.06	5,700	31	38	67	27					 		
	06/19/03	24.28	49.93	25.65										 		
	09/30/03	26.37	49.93	23.56	7,400	61	<50	< 50	<100					 		
	02/10/04	23.54	49.93	26.39										 		
	06/30/04	25.71	49.93	24.22										 		
	09/14/04	26.85	49.93	23.08	9,100	47	<25	51	<50					 		
	03/29/06	20.18	49.93	29.75	6,800	140	18	270	160					 		
	06/24/06	23.87	49.93	26.06										 		
	09/30/06	24.8	49.93	25.13	5,700	61	30	78	120	<100				 		
	03/16/07	23.09	49.93	26.84	10,000	71	15	46	25	<50				 		
	09/14/07	26.87	49.93	23.06	5,800	55	18	22	15	<10				 		
	12/14/07	27.14	49.93	22.79										 		
	03/12/08	23.48	49.93	26.45	9,300	240	23	48	37	<50				 		
	06/11/08	25.98	49.93	23.95										 		
	09/05/08	27.38	49.93	22.55	8,400	120	12	18	16	<250				 		
	12/13/08	28.04	49.93	21.89										 		
	03/14/09	22.73	49.93	27.2	8,100	300	25	36	72	<250				 		
	12/07/09	27.33	49.93	22.6	8,400	160	26	32	34	<100				 		
	03/15/10	22.27	49.93	27.66	5,200	110	4.1	29	16	<2.0				 		
	09/13/10	26.88	49.93	23.05	6,800	43	2.5	31	13[5]					 <4.0[5]	<8.0[5]	<5.0
	03/01/11	21.77	49.93	28.16	8,100	32	3.2	53	11[5]					 		
	09/08/11	25.27	49.93	24.66	7,700	13	<2.5[5]	30	9.0[5]					 		
	03/06/12	26.37	49.93	23.56	5,300	9.8	2.5	25	7.0					 		
	07/11/12	25.19	49.93	24.74	7,400	13	3.1	34	7.1					 		
	03/05/13	25.03	49.93	24.90	6,200	41	5.8	27	8.3					 		
	09/09/13	27.84	49.93	22.09	4,400	16	<4.0[5]	14	5.8					 		

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	TAME (μg/L)	1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (μg/L)
MW-11	12/30/98	23.15	47.93	24.78	80	<0.5	<0.5	0.93	1.6				 			
	03/13/99	18.37	47.93	29.56									 			
	03/23/99		47.93		<50	< 0.5	< 0.5	< 0.5	< 0.5				 			
	09/29/99	23.9	47.93	24.03	94	< 0.5	< 0.5	< 0.5	< 0.5				 			
	12/29/99	24.5	47.93	23.43									 			
	03/18/00	16.55	47.93	31.38	< 50	< 0.5	< 0.5	< 0.5	< 0.5				 			
	07/18/00	22.12	47.93	25.81									 			
	09/26/00	23.35	47.93	24.58	< 50	< 0.5	< 0.5	< 0.5	< 0.5				 			
	12/28/00	23.67	47.93	24.26									 			
	03/20/01		47.93		<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0			 			
	03/30/01	20.9	47.93	27.03									 			
	10/05/01	24.41	47.93	23.52									 			
	03/28/02	19.62	47.93	28.31	<50	< 0.5	< 0.5	< 0.5	<1.5				 			
	09/30/02	23.84	47.93	24.09									 			
	09/30/06	22.58	47.93	25.35	160	1.8	12	7.6	40	<5.0			 			
	09/14/07	24.72	47.93	25.21	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0			 			
	12/14/07	25	47.93	22.93									 			
	06/11/08	23.81	47.93	24.12									 			
	09/05/08	25.23	47.93	22.7	150	0.93	0.6	1.6	2.5	<5.0			 			
	12/13/08	25.93	47.93	22									 			
	03/15/10	20.10	47.93	27.83									 			
	09/13/10	24.11	47.93	23.82	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			 	<1.0	<2.0	22
	03/01/11	19.57	47.93	28.36									 			
	09/08/11	23.08	47.93	24.85	< 50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	03/06/12	24.18	47.93	23.75									 			
	07/11/12	23.00	47.93	24.93	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	03/05/13	22.82	47.93	25.11									 			
	09/09/13	25.71	47.93	22.22	< 50	< 0.50	< 0.50	< 0.50	< 0.50				 			

12/30/98 03/13/99 09/29/99 12/29/99 03/18/00 07/18/00 09/26/00 12/28/00 03/20/01	23.68 18.9 24.43 25.03 17.08 22.65 23.88 24.2	48.46 48.46 48.46 48.46 48.46 48.46	24.78 29.56 24.03 23.43 31.38 25.81		 					 				
09/29/99 12/29/99 03/18/00 07/18/00 09/26/00 12/28/00	24.43 25.03 17.08 22.65 23.88	48.46 48.46 48.46 48.46	24.03 23.43 31.38							 	 			
12/29/99 03/18/00 07/18/00 09/26/00 12/28/00	25.03 17.08 22.65 23.88	48.46 48.46 48.46	23.43 31.38							 	 			
03/18/00 07/18/00 09/26/00 12/28/00	17.08 22.65 23.88	48.46 48.46	31.38							 	 			
07/18/00 09/26/00 12/28/00	22.65 23.88	48.46								 	 			
09/26/00 12/28/00	23.88		25.81							 	 			
12/28/00		48.46								 	 			
	24.2		24.58							 	 			
03/20/01		48.46	24.26							 	 			
		48.46		4,100	28	6.2	<5	16	90 / < 5.0	 	 			
03/30/01	21.43	48.46	27.03							 	 			
06/29/01		48.46		4,200	26	25	19	29		 	 			
10/05/01	24.94	48.46	23.52							 	 			
12/21/01		48.46		5,300	9.7	<2.5	41	14		 	 			
03/28/02	20.15	48.46	28.31	4,900	20	<2.5	69	23		 	 			
06/28/02		48.46		2,600	29	<12.5	30	<25		 	 			
09/30/02	24.37	48.46	24.09	700	16	4.9	19	9.8		 	 			
09/30/06	22.58	48.46	26.18	2,100	6.2	15	16	38	<10	 	 			
12/11/06	23.88	48.46	24.88	5,500	13	24	16	23	<17	 	 			
03/16/07	21.77	48.46	26.99	4,900	11	24	16	8.5	<50	 	 			
06/10/07	24.06	48.46	24.7	2,600	<2.5	<2.5	13	9.5	<25	 	 			
09/14/07		48.46		_,000						 	 			
12/14/07	25.77	48.46	22.99							 	 			
03/12/08		48.46								 	 			
06/11/08	24.6	48.46	23.86	6,200	11	21	26	8.1	<50	 	 			
09/05/08	25.97	48.46	22.49	5,000	7.3	15	12	5.9	<25	 	 			
12/13/08	26.66	48.46	21.8	4,400	7.6	19	12	9.4	<25	 	 			
03/14/09	21.36	48.46	27.1	6,800	16	19	20	60	<50	 	 			
06/03/09	24.2	48.46	24.26	6,400	6.5	24	25	6.1	<50	 	 			
12/07/09		48.46								 	 			
03/15/10	20.89	48.46	27.57	5,100	5.0	<2.0	15	4.3	<2.0	 	 			
09/13/10	24.91	48.46	23.55	5,400	<2.0[5]	<2.0[5]	10	3.5		 	 	<4.0[5]	<8.0[5]	14
03/01/11	20.40	48.46	28.06	5,900	<2.0[5]	<2.0[5]	18	3.9[5]		 	 			
09/08/11	20.40	48.46	20.00	J,500 	~2.0[J] 	~2.0[J] 		J.7[J] 		 	 			
03/06/11	25.01	48.46	23.45	4,100	<1.5[5]	<1.5[5]	6.9	2.5		 	 			
07/11/12	23.85	48.46	24.61	3,500	<1.0[5]	<1.0[5]	7.4	1.8		 	 			
03/05/13		48.46					7. <del>4</del> 	1.0		 	 			
09/09/13		48.46 48.46		1,600	<0.50	< 0.50	0.70	0.69		 	 			

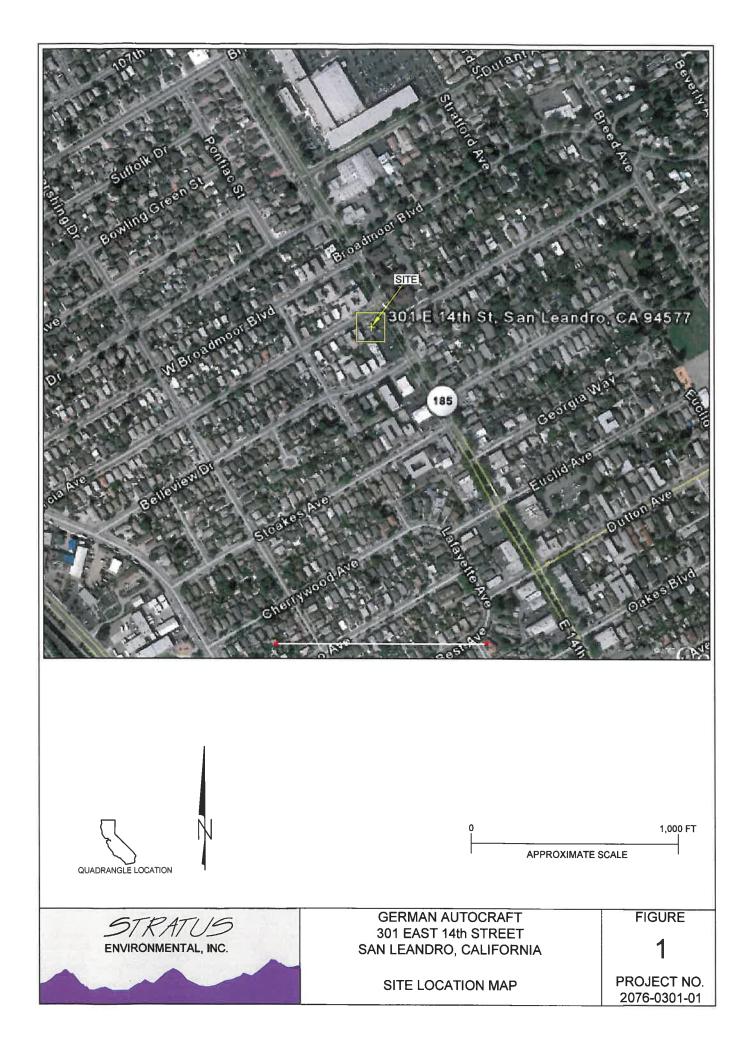
Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	TAME (µg/L)	1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-13	12/30/98	24.73	49.51	24.78									 			
	03/13/99	19.95	49.51	29.56									 			
	09/29/99	25.48	49.51	24.03									 			
	12/29/99	26.08	49.51	23.43									 			
	03/18/00	18.13	49.51	31.38									 			
	07/18/00	23.7	49.51	25.81									 			
	09/26/00	24.93	49.51	24.58		25-							 			
	12/28/00	25.25	49.51	24.26									 			
	03/20/01		49.51		<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0			 			
	03/30/01	22.48	49.51	27.03									 			
	06/29/01		49.51		< 50	< 0.5	< 0.5	< 0.5	< 0.5				 			
	10/05/01	25.99	49.51	23.52	<50	< 0.5	< 0.5	< 0.5	< 0.5				 			
	12/21/01		49.51		< 50	< 0.5	< 0.5	< 0.5	< 0.5				 			
	03/28/02	21.2	49.51	28.31	< 50	< 0.5	< 0.5	< 0.5	<1.5				 			
	06/28/02		49.51		< 50	< 0.5	< 0.5	< 0.5	<1.0				 			
	09/30/02	25.42	49.51	24.09	<50	< 0.5	< 0.5	< 0.5	<1.0				 			
	12/21/02		49.51		< 50	< 0.5	< 0.5	< 0.5	<1.0				 			
	09/30/06	22.58	49.51	26.93	170	2.1	13	8.1	43	< 5.0			 			
	12/11/06	25.33	49.51	24.18	110	4.6	6.5	4.6	17	< 5.0			 			
	03/16/07	23	49.51	26.51	<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0			 			
	06/10/07	25.5	49.51	24.01	54	0.8	0.84	1.3	5.4	< 5.0			 			
	09/14/07	26.85	49.51	22.66	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0			 			
	12/14/07	27.11	49.51	22.4	<50	0.76	< 0.5	2.3	2.6	< 5.0			 			
	03/12/08	23.5	49.51	26.01	< 50	< 0.5	< 0.5	0.66	2.2	<5.0			 			
	06/11/08	26.02	49.51	23.49	120	0.58	0.97	1.1	2	<5.0			 			
	09/05/08	27.29	49.51	22.22	78	< 0.5	0.6	0.98	2.1	< 5.0			 			
	12/13/08	27.96	49.51	21.55	59	0.93	< 0.5	2.5	3.8	<5.0			 			
	03/14/09	22.48	49.51	27.03	260	1.1	8.8	10	46	< 5.0			 			
	06/03/09	25.61	49.51	23.9	< 50	< 0.5	< 0.5	0.65	0.69	<5.0			 			
	12/07/09	27.40	49.51	22.11	190	1.2	1.6	5.8	13	< 5.0			 			
	03/15/10	22.26	49.51	27.25	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			 			
	09/13/10	26.40	49.51	23.11	<50	< 0.50	< 0.50	< 0.50	< 0.50				 	<1.0	<2.0	8.0
	03/01/11	21.82	49.51	27.69	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	09/08/11	25.38	49.51	24.13	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	03/06/12	26.49	49.51	23.02	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	07/11/12	25.31	49.51	24.20	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	03/05/13	25.17	49.51	24.34	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			
	09/09/13	27.87	49.51	21.64	<50	< 0.50	< 0.50	< 0.50	< 0.50				 			

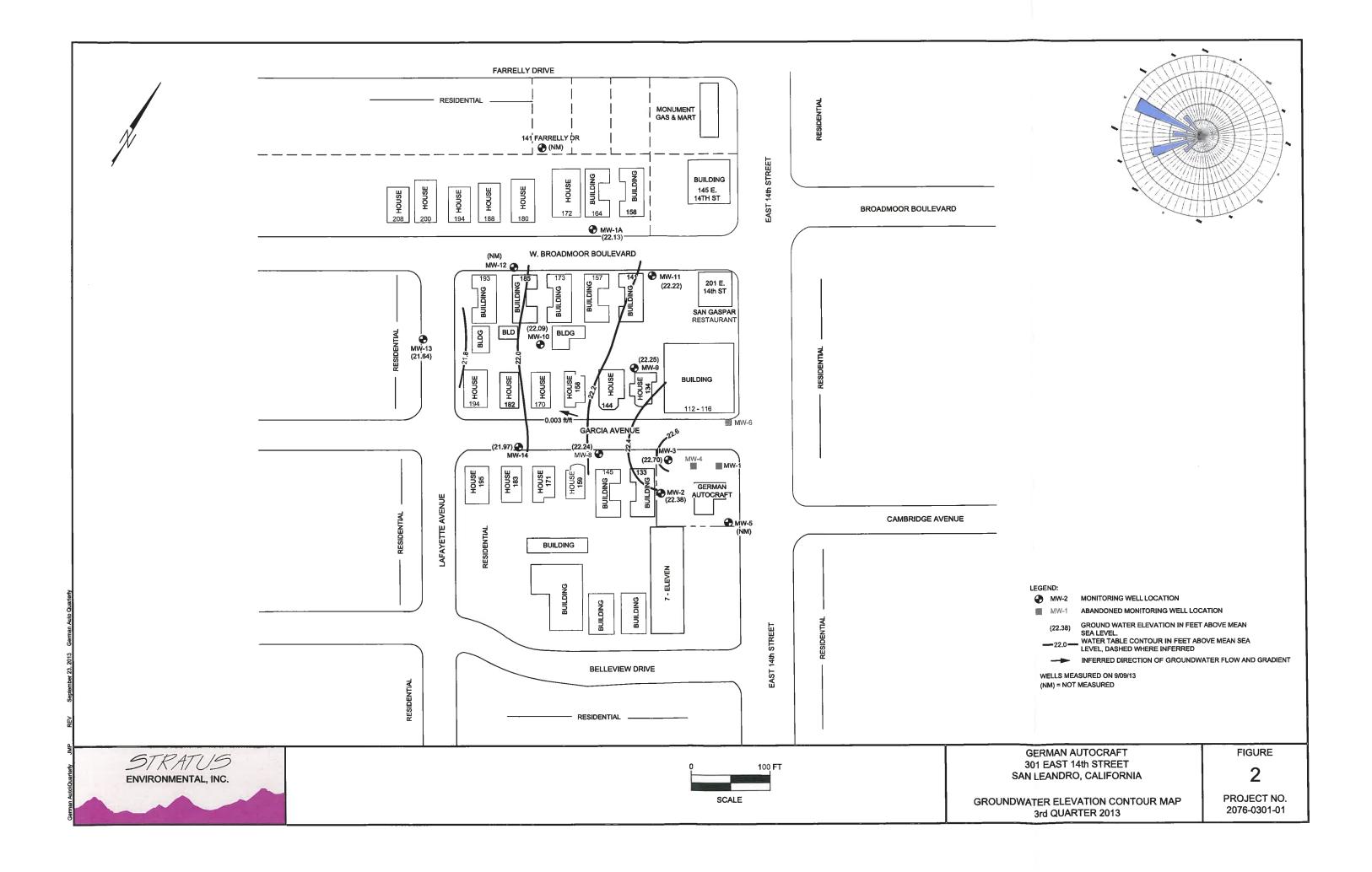
Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-14	12/30/98	24.76	49.54	24.78									-	 		
	03/13/99	19.98	49.54	29.56										 		
	09/29/99	25.51	49.54	24.03										 		
	12/29/99	26.11	49.54	23.43										 		
	03/18/00	18.16	49.54	31.38										 		
	07/18/00	23.73	49.54	25.81										 		
	09/26/00	24.96	49.54	24.58										 		
	12/28/00	25.28	49.54	24.26										 		
	03/20/01		49.54		200	< 0.5	< 0.5	< 0.5	< 0.5	<5.0				 		
	03/30/01	22.51	49.54	27.03										 		
	06/29/01		49.54		660	< 0.5	< 0.5	< 0.5	4.6					 		
	10/05/01	26.02	49.54	23.52	770	1.7	1.5	0.91	8.3					 		
	12/21/01		49.54		1,500	3.1	13	1.9	22					 		
	03/28/02	21.23	49.54	28.31	390	1.7	< 0.5	< 0.5	0.74					 		
	06/28/02		49.54		120	< 0.5	< 0.5	< 0.5	<1					 		
	09/30/02	25.45	49.54	24.09	210	< 0.5	1.7	< 0.5	1.1					 		
	12/21/02		49.54		53	< 0.5	< 0.5	< 0.5	<1.0					 		
	09/30/06	22.58	49.54	26.96	210	2.5	15	9.1	48	<5.0				 		
	12/11/06	24.9	49.54	24.64	190	6.7	9.9	5.4	19	<5.0				 		
	03/16/07	22.67	49.54	26.87	< 50	< 0.5	1.1	< 0.5	< 0.5	< 5.0				 		
	06/10/07	25.11	49.54	24.43	73	1.1	1.3	1.8	7.2	< 5.0				 		
	09/14/07	26.56	49.54	22.98	<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0			,	 		
	12/14/07	26.8	49.54	22.74	69	1.1	0.57	3.5	4.5	< 5.0				 		
	03/01/08	23.03	49.54	26.51										 		
	03/12/08		49.54		110	0.61	1.2	1.2	3.6	< 5.0				 		
	06/11/08	25.69	49.54	23.85	52	< 0.5	0.68	< 0.5	1	<5.0				 		
	09/05/08	27.04	49.54	22.5	95	< 0.5	1.3	0.61	2.3	<5.0				 		
	12/13/08	27.72	49.54	21.82	220	1.5	4.3	3.2	5.1	<5.0				 		
	03/14/09	22.22	49.54	27.32	360	1.4	12	13	61	< 5.0				 		
	06/03/09	25.3	49.54	24.24	68	< 0.5	1.9	0.81	1.1	< 5.0				 		
	12/07/09	27.1	49.54	22.44	220	1.3	2.7	6.9	15	<5.0				 		
	03/15/10	21.94	49.54	27.60	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50				 		
	09/13/10	26.05	49.54	23.49	<50	< 0.50	< 0.50	< 0.50	< 0.50					 <1.0	< 2.0	11
	03/01/11	21.50	49.54	28.04	<50	< 0.50	< 0.50	< 0.50	< 0.50					 		
	09/08/11	25.02	49.54	24.52	<50	< 0.50	< 0.50	< 0.50	< 0.50					 		
	03/06/12	26.13	49.54	23.41	<50	< 0.50	< 0.50	< 0.50	< 0.50					 		
	07/11/12	24.92	49.54	24.62	<50	< 0.50	< 0.50	< 0.50	< 0.50					 		
	03/05/13	24.75	49.54	24.79	<50	< 0.50	< 0.50	< 0.50	< 0.50					 		
	09/09/13	27.57	49.54	21.97	<50	< 0.50	< 0.50	< 0.50	< 0.50					 		

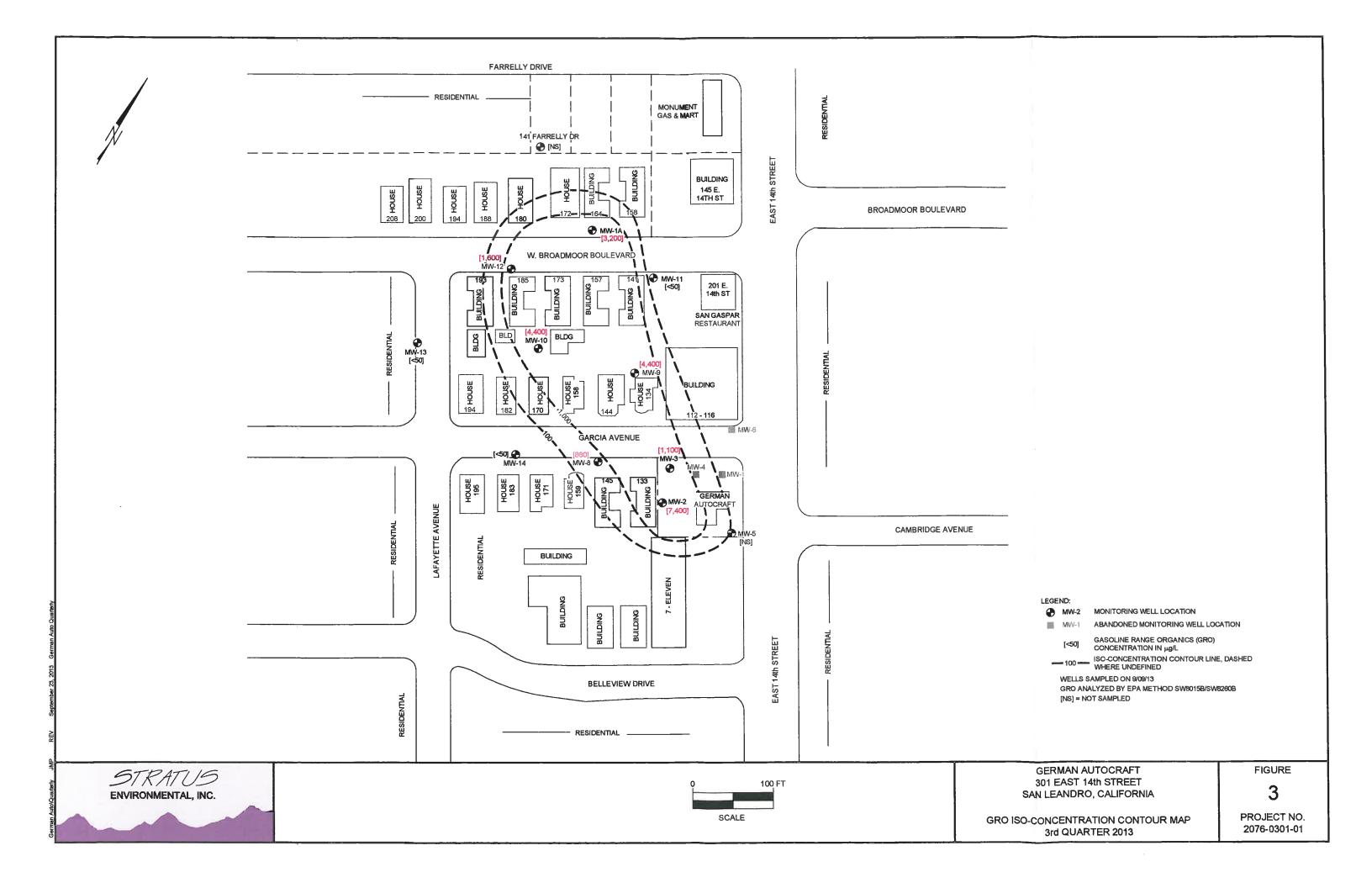
Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
MW-1A	05/30/97		48.24		12,000	18	8.7	90	540					 		
1	12/30/98	23.6	48.24	24.64	51	< 0.5	< 0.5	< 0.5	< 0.5					 		
•	03/13/99	18.85	48.24	29.39										 		
1	03/23/99		48.24		1,800	4	< 0.5	3	7.5					 		
	03/23/99		48.24		2,200	10	0.52	3.1	7.1					 		
	09/29/99	24.35	48.24	23.89	13,000	63	26	30	72					 		
I	12/29/99	24.95	48.24	23.29										 		
<b>I</b>	03/08/00		48.24		6,100	36	<5	9.7	45					 		
İ	03/18/00	16.99	48.24	31.25										 		
	07/18/00	22.6	48.24	25.64										 		
l	09/26/00	23.76	48.24	24.48	11,000	14	<5	65	150					 		
ŀ	12/28/00	24.11	48.24	24.13										 		
	03/30/01	21.22	48.24	27.02	4,800	30	6	<5	7	51 / < 5.0				 		
1	10/05/01	24.86	48.24	23.38	15,000	76	41	36	140					 		
1	03/28/02	20.1	48.24	28.14	9,300	35	<12.5	17	32					 		
1	09/30/02	24.28	48.24	23.96	23,000	<50	63	77	230					 		
	09/30/06	23.03	48.24	25.21	2,500	4.1	25	22	49	<5.0				 		
	03/16/07		48.24		1,800	1.8	17	6.4	4.4	< 5.0				 		
	09/14/07	25.13	48.24	23.11	1,500	1.1	15	2.8	1.8	<5.0				 		
	12/14/07	25.43	48.24	22.81										 		
	03/12/08	21.75	48.24	26.49	1,200	2.1	12	5	3.6	<5.0				 		
	06/11/08	24.24	48.24	24										 		
	09/05/08	25.62	48.24	22.62	1,900	2.4	14	10	5.4	<5.0				 		
l	12/13/08	26.33	48.24	21.91										 		
ji	03/14/09	21.07	48.24	27.17	1,700	2.5	13	11	32	<5.0				 		
	03/15/10	20.52	48.24	27.72	2,400	< 0.50	< 0.50	5.5	2.3	< 0.50				 		
	09/13/10	24.55	48.24	23.69	2,800	< 0.50	< 0.50	7.6	2.4					 <1.0	< 2.0	6.9
	03/01/11	20.02	48.24	28.22	2,600	< 0.50	< 0.50	6.2	2.3					 		
	09/08/11	23.52	48.24	24.72	2,200	<1.0[5]	<1.0[5]	7.4	2.3					 		
	03/06/12	24.60	48.24	23.64	2,100	<1.0[5]	<1.0[5]	9.0	2.2					 		
	07/11/12	23.45	48.24	24.79	4,200	<2.0[5]	<2.0[5]	6.4	2.6					 		
	03/05/13	23.28	48.24	24.96	1,200	<1.0[5]	<1.0[5]	4.8	<1.0[5]					 		
	09/09/13	26.11	48.24	22.13	3,200	<1.0[5]	<1.0[5]	9.7	2.2					 		

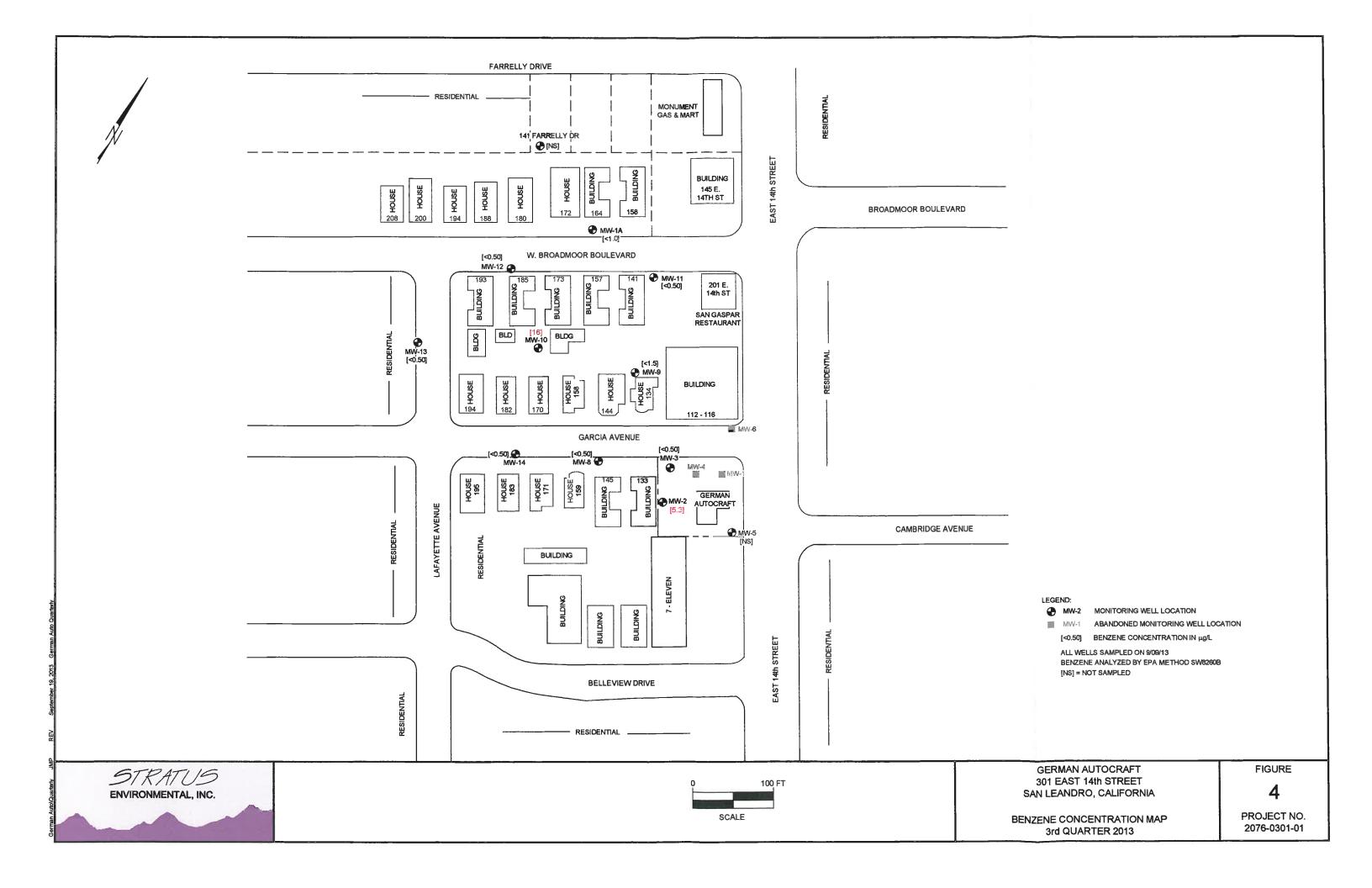
Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (μg/L)	DIPE (µg/L)			1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
141	04/06/96		48.76		<50	< 0.5	<0.5	<0.5	< 0.5								
Farrelly	10/02/99		48.76		<50	< 0.5	< 0.5	< 0.5	< 0.5								
	03/18/00	17.9	48.76	30.86	<50	< 0.5	< 0.5	< 0.5	< 0.5								
	07/13/00		48.76		<50	< 0.5	< 0.5	< 0.5	< 0.5								
	09/26/00	24.66	48.76	24.1	<50	< 0.5	< 0.5	< 0.5	< 0.5								
	12/29/00		48.76		<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0 [3]	<20	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
	03/20/01		48.76							<5.0 [3]	<20	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0
	03/30/01	22.25	48.76	26.51													
	12/21/01		48.76		< 50	< 0.5	< 0.5	< 0.5	< 0.5								
	09/30/02	25.34	48.76	23.42	< 50	< 0.5	< 0.5	< 0.5	<1.0								
	12/21/02	20.07	48.76	28.69	< 50	< 0.5	< 0.5	< 0.5	<1.0								
	06/19/03	23.55	48.76	25.21	< 50	< 0.5	< 0.5	< 0.5	<1.0								
	09/14/04	26.12	48.76	22.64	<50	< 0.5	< 0.5	< 0.5	<1.0								
	03/16/07	22.28	48.76	26.48	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0							
	09/14/07	25.98	48.76	22.78	<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0							
	03/12/08		48.76														
	06/11/08		48.76														
	09/05/08	26.48	48.76	22.28	<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0							
`	12/13/08	27.2	48.76	21.56	<50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0							
	03/14/09		48.76														
	06/03/09	25.83	48.76	22.93	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<5.0							
	12/07/09		48.76														
	03/15/10		48.76		<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50							
	09/13/10		48.76		< 50	< 0.50	< 0.50	< 0.50	< 0.50						<1.0	< 2.0	<5.0
	03/01/11		48.76														
	09/08/11	24.50	48.76	24.26	< 50	< 0.50	< 0.50	< 0.50	< 0.50								
	03/06/12	25.57	48.76	23.19	< 50	< 0.50	< 0.50	< 0.50	< 0.50								
	07/11/12		48.76		< 50	< 0.50	< 0.50	< 0.50	< 0.50								
	03/05/13		48.76		<50	< 0.50	< 0.50	< 0.50	< 0.50								
	09/09/13		48.76														

Well Number	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	GRO[1] (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE [3,4] (μg/L)	TBA (µg/L)	DIPE (μg/L)			1,2-DCA (μg/L)	EDB (µg/L)	Lead (Pb) (µg/L)
Legend/Key:					Analytical M	ethods:											
	ine Range Orga	nics C4-C13					EPA Method 80	015B									
	hyl tertiary buty				-				0/8021B prior	to 2010							
II .	ry butyl alcohol					-	-		d TAME analy:		Aethod 826	0B					
DIPE = Di-iso						,	,, -	,, ···		,							
	l tertiary butyl e	her			Laboratory (	oualifiers/Flag	s/Notes:										
11	iary amyl methy							carbons as Gas	soline (TPHg) p	prior to 2010							
ll .	2-Dichloroethar				•						datad A		06 by Eng	ienemental '	Facting & M	anagement	casts doubt
		16			on the validity			uarter 1990 Ei	wironmental A	cnvines керо	rt, dated A	ugust 8, 19	90 by Eliv	nomicinai	resumg & M	anagement	Casis dodoi
EDB = 1,2-D			1.1.1.		•		•	in her EDA 900	0/8021 and sec	and is confirm	nation by R'	260 If onl	v one recui	t by 8260			
И	red, not analyze		lable											ii, by 5200			
II .	bove mean sea l	evel				-	_	_	l by [3] and du		vent when a	analyzed by	y 8200				
μg/L = micro									ons of target an								
Analytical data	a present here p	rior to first qu	arter 2010 prov	ided by Groundw	ater Cleaners,	inc. Stratus ha	not reviewed	laboratory repo	rts and makes r	no representat	ions regardi	ing accurac	y of these	data.			









# APPENDIX A FIELD DATA SHEETS



Site Address	301 East 14th Street	
City	San Leandro	
Sampled by:	Carl Schulze	
Signature	( P Sh)	

Site Number	German Autocraft	
Project Number	2076-0301-01	
Project PM _	Kasey Jones	
DATE	09/09/13	
	- 0 1/0 1/10	

Water Level Data				Purge Volume Calculations				Purge Method			Sample Record			Field Data			
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Pailes	Pump		DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
19M-5	1140		27.64	34.15	6.51	۲.	0.5	3.26	3.5		×			27.82	MW-2	1222	4.39
MV-I	1177		26.62	35.41	8.79	7"	0.5	4.40	4.5		25			26.68	MW-3	1202	4.45
MU-5	1129		dry	8 825											MW-S		
MU -8	1046		27.11	29.50	2.39	24	0.5	1.20	1.5		γ			27.46	ML - 8	1100	4.96
MW-9	6714		26.52	32.94	6.42	2*	0.5	3.21	3.5		¥			26.53	MW-9	6735	5.32
MW-10	०६५७		27.84	38.22	10.38	z"	۵،5	8.19	5.5		Y			27.86	MW-10	<b>0907</b>	5.28
MU-11	0751		28.71	33.41	7.70	2"	0.5	3.85	ч		٧			25.72	MW-11	1180	6.86
MW-12		N	A	37.91		S.,	ک. ه		Ь			٧		26. 47	MW-12	0945	5.08
MW-13	o958		27.87	37.28	9.41	Z"	0.5	4.72	5		٧			27,90	MW-13	1016	5.22
MW-14	1024		27.57	30.28	2.71	7"	6,5	1.36	1.5		×			27.58	MW-14	1041	5.64
AU-IA	9180		11.65	33.26	7.15	2*	0.5	358	۲		х			26.13	mw-IA	6280	5.17
141 Forely															14) Facely	sampled	
																. 1	
		_															
													Î				
							1										
					Î												

Multiplier 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4 Please refer to groundwater sampling field procedures pH/Conductivity/temperature Meter - Oakton Model PC-10 DO Meter - Oakton 300 Series (DO is always measured before purge)

C	ALIBRATION DATE	
рН	08/23/13	
Conductivity		
DO _	Ψ	



Site Address 301 East 14th St
City San Leandro
Sampled By: Cor Shulze

Sampled By: Corl Schulze
Signature

Well ID AW-9					Well I	D MW-1			<u>=</u>	•	
Purge start time			Odor	Ø N	Purge						
	Temp C pH		cond	gallons	dige	- Start tille	76		Odor	Y 60	
time 0720	18.4	7.83			-		Temp C	pН	cond	gallons	
time 0725	-		342	6	time	0755	17.8	7.33	500,	0	
time 0735	18.4	7.67	410	1.5	time	0800	0.81932	242	5॥	2	
time	18.7	7.43	422	3.5	time	0811	17.9	7.34	514	4	
					time						
purge stop time	20:	S.32	ORP g			stop time	DO: 6.56		ORP 55		
Well-ID AW- 1	1				Well I	D MW-1	b				
Purge start time	T		Odor	Y Ø	Purge	start time			Odor	Y (1)	
	Temp C	рН	cond	gallons			Temp C	рН	cond	gallons	
time 0824	18.9	7.30	454	0	time	<b>७</b> १५९	18.2	7.16	487	٥	
time 0828	18.7	7.15	493	2	time	0853	18.2	7.07	487	Z	
time 0836	18.9	7.14	492	ዛ	time	0858	18.7	7.03	486	4	
time					time	0907	18.3	7.03	482	5,5	
purge stop time	5.17	ORP	- 54	purge stop time 00.5.28			ORP -	13			
Well ID AW-1	2				Well ID Mw-13						
Purge start time			Odor	Ø N	Purge start time				Odor	Y 🚳	
	Temp C	рН	cond	gallons			Temp C	рН	cond	gallons	
time 0927	19.2	7. 26	478	0	time	1007	19.4	7.02	550	0	
time 0931	18.5	7.18	465	2	time	1005	18.9	6.38	560	Z	
time 0937	18.4	7.10	466	4	time	1008	18.7	6 85	562	4	
time 0945	18.5	7.15	463	6	time	1016	19.3	6.83	560	5	
purge stop time	DO: 5	.08	ORP -	14	purge	stop time	00:	5.22	ORP 2	3	
Well ID MV-1	4				Well ID 8 - V.M. OI IIeW						
Purge start time			Odor	Y (P)	Purge start time				Odor	Y 05	
	Temp C	рН	cond	gallons			Temp C	pН	cond	gallons	
time 1028	19.3	7.14	335	٥	lime	650	19.3	7.07			
time 1041	19.8	7.12	333	1.5	time	1100	19.4	7.05	358	0	
time					time	-	7.77		338	1.5	
lime					time						
purge stop time	00:5.	<b>6</b> 'Y	ORP Z	4	purge	stop time	00: 4.9	6	ORP - (	4	
								•	OINF 2 (	7	



Site Address	:30:1	E1	4th	St
City	Sar	Lea	andro	
Sampled By:	_C.	<u>برا .</u>	Sch	y/ze
Signature	_(_	رکو	$\leq \mathcal{I}$	又
			<u> </u>	$\sigma$

 Site Number
 German Auto

 Project Number
 2076-0301-01

 Project PM
 K. Jones

 DATE
 09/09/13

Well ID MW -	3				Well ID MU-7				•
Purge start time			Odor	Ø N	Purge start time	Odor 🖱 N			
	Temp C	рН	cond	gallons		Temp C	рН	cond	gallons
time 1147	20.7	7.34	148.2	0	time 120°q	20.2	6.93	278	O
time 1153	19.7	7. 24	125.7	2 <b>2/6</b>	time 1213	19.3	6.91	294	1.5
time 1202	20.0	7.25	121.3	4.5	time 1272	20.1	6.88	306	3.5
time					time			3.6	3.3
purge stop time 00.4.45			ORP -	40	purge stop time	90: 1.3	c <sub>i</sub>	ORP	- 8
Well ID				<u> </u>	Well ID				0
Purge start time			Odor	YN	Purge start time			Odor	YN
	Temp C	рΗ	cond	gallons		Temp C	pН	cond	gallons
time					time				3
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time	ORP			
Well ID					Well ID	<del></del>			
Purge start time			Odor	YN	Purge start time	Odor	YN		
	Temp C	рΗ	cond	gallons		Temp C	рН	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP	ORP purge stop time				ORP	
Well ID					Well ID				
Purge start time			Odor	Y N	Purge start time			Odor	YN
	Temp C	рН	cond	gallons		Temp C	рН	cond	gallons
time					time				
time					time				
time					time				
time					lime				
purge stop time			ORP		purge stop time	ORP			

# APPENDIX B SAMPLING AND ANALYSES PROCEDURES

#### SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

#### Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typical a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

#### **Subjective Analysis of Ground Water**

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

#### **Monitoring Well Purging and Sampling**

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of accruing to regulatory accepted method pertaining to the site.

#### **QUALITY ASSURANCE PLAN**

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconforments, defective material, services, and/or equipment, can be promptly identified and corrected.

#### **General Sample Collection and Handling Procedures**

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

#### Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc<sup>®</sup> type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

#### Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and

noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

#### **Equipment Cleaning**

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

#### **Internal Quality Assurance Checks**

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

#### - Laboratory Quality Assurance

- Documentation of instrument performance checks
- Documentation of instrument calibration
- Documentation of the traceability of instrument standards, samples, and data
- Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

#### - Field Quality Assurance

- Documentation of sample preservation and transportation
- Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

#### **Types of Quality Control Checks**

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples a known amount of spike solution containing selected
  constituents is added to the sample at concentrations at which the accuracy of the
  analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples when spiked sample analysis indicates atypical
  instrument performance, a quality check sample, which is prepared independently
  of the calibration standards and contains the constituents of interest, is analyzed to
  confirm that measurements were performed accurately.

 Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks reagent water samples are prepared before field work, transported
  and stored with the samples and analyzed to assess the impact of sample transport
  and storage for data quality. In the event that any analyte is detected in the field
  blank, a trip blank will be included in the subsequent groundwater sampling
  event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

### **APPENDIX C**

# LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



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### **ANALYTICAL REPORT**

Stratus Environmental 3330 Cameron Park Drive Cameron Park, CA 956828861 Attn: Kasey Jones Phone: (530) 676-6004

Fax: (530) 676-6005 Date Received: 09/11/13

Job: 2076-0301-01/German Autocraft

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter		Concentra	tion	Reporting Limit	Date Extracted	Date Analyzed
Client ID:	MW-2	,	•				
Lab ID:	STR13091145-01A	TPH-P (GRO)	7,400		800 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 12:22	Benzene	5.3		4.0 μg/L	09/16/13	09/16/13
		Toluene	ND	V	4.0 μg/L	09/16/13	09/16/13
		Ethylbenzene	84		4.0 μg/L	09/16/13	09/16/13
		m,p-Xylene	П		4.0 μg/L	09/16/13	09/16/13
		o-Xylene	ND	V	4.0 μg/L	09/16/13	09/16/13
Client ID:	MW-3						
Lab ID:	STR13091145-02A	TPH-P (GRO)	1,100		50 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 12:02	Benzene	ND		0.50 μg/L	09/16/13	09/16/13
		Toluene	ND		0.50 μg/L	09/16/13	09/16/13
		Ethylbenzene	0.98		0.50 μg/L	09/16/13	09/16/13
		m,p-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
		o-Xyiene	ND		0.50 μg/L	09/16/13	09/16/13
Client ID:	MW-8						
Lab ID :	STR13091145-03A	TPH-P (GRO)	880		50 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 11:00	Benzene	ND		0.50 μg/L	09/16/13	09/16/13
		Toluene	ND		0.50 μg/L	09/16/13	09/16/13
		Ethylbenzene	1.7		0.50 μg/L	09/16/13	09/16/13
		m,p-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
		o-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
Client ID:	MW-9						
Lab ID :	STR13091145-04A	TPH-P (GRO)	4,400		300 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 07:35	Benzene	ND	V	1.5 μg/L	09/16/13	09/16/13
		Toluene	ND	V	1.5 μ <b>g/</b> L	09/16/13	09/16/13
		Ethylbenzene	4.1 .		1.5 μg/L	09/16/13	09/16/13
		m,p-Xylene	ND	V	1.5 μg/L	09/16/13	09/16/13
		o-Xylene	ND	v	1.5 μg/L	09/16/13	09/16/13
Client ID:	MW-10						
Lab ID :	STR13091145-05A	TPH-P (GRO)	4,400		800 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 09:07	Benzene	16		4.0 μg/L	09/16/13	09/16/13
		Toluene	ND	v	4.0 μg/L	09/16/13	09/16/13
		Ethylbenzene	14		4.0 μg/L	09/16/13	09/16/13
		m,p-Xylene	5.8		4.0 μg/L	09/16/13	09/16/13
		o-Xylene	ND	v	4.0 μg/L	09/16/13	09/16/13



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Client ID:	MW-11						
Lab ID:	STR13091145-06A	TPH-P (GRO)	ND		50 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 08:11	Benzene	ND		0.50 μg/L	09/16/13	09/16/13
		Toluene	ND		0.50 μg/L	09/16/13	09/16/13
		Ethylbenzene	ND		0.50 μg/L	09/16/13	09/16/13
		m,p-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
		o-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
Client ID:	MW-12						
Lab ID:	STR13091145-07A	TPH-P (GRO)	1,600		100 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 09:45	Benzene	ND		0.50 μg/L	09/16/13	09/16/13
		Toluene	ND		0.50 μg/L	09/16/13	09/16/13
		Ethylbenzene	0.70		0.50 μg/L	09/16/13	09/16/13
		m,p-Xylene	0.69		0.50 μg/L	09/16/13	09/16/13
		o-Xylene	ND		$0.50  \mu g/L$	09/16/13	09/16/13
Client ID:	MW-13						
Lab ID:	STR13091145-08A	TPH-P (GRO)	ND		50 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 10:16	Benzene	ND		$0.50~\mu g/L$	09/16/13	09/16/13
		Toluene	ND		0.50 μg/L	09/16/13	09/16/13
		Ethylbenzene	ND		0.50 μg/L	09/16/13	09/16/13
	·	m,p-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
		o-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
Client ID:	MW-14						
Lab ID:	STR13091145-09A	TPH-P (GRO)	ND		50 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 10:41	Benzene	ND		0.50 μg/L	09/16/13	09/16/13
		Toluene	ND		0.50 μg/L	09/16/13	09/16/13
		Ethylbenzene	ND		$0.50 \mu g/L$	09/16/13	09/16/13
		m,p-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
		o-Xylene	ND		0.50 μg/L	09/16/13	09/16/13
Client ID:	MW-1A						
Lab ID:	STR13091145-10A	TPH-P (GRO)	3,200		200 μg/L	09/16/13	09/16/13
Date Sampled	09/09/13 08:28	Benzene	ND	V	1.0 µg/L	09/16/13	09/16/13
		Toluene	ND	V	1.0 μg/L	09/16/13	09/16/13
		Ethylbenzene	9.7		1.0 µg/L	09/16/13	09/16/13
		m,p-Xylene	2.2		1.0 µg/L	09/16/13	09/16/13
		o-Xylene	ND	V	1.0 µg/L	09/16/13	09/16/13

Gasoline Range Organics (GRO) C4-C13

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger L. Scholl, Ph.D., Laharatory Director • Randy Gardner, Laboratory Manager • • Wester Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authoriticity: Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported sample

9/18/13

Report Date



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### **VOC Sample Preservation Report**

Work Order: STR13091145

Job:

2076-0301-01/German Autocraft

Alpha's Sample ID	Client's Sample ID	Matrix	рН	
13091145-01A	MW-2	Aqueous	2	
13091145-02A	MW-3	Aqueous	2	
13091145-03A	MW-8	Aqueous	2	
13091145-04A	MW-9	Aqueous	2	
13091145-05A	MW-10	Aqueous	2	
13091145-06A	MW-11	Aqueous	2	
13091145-07A	MW-12	Aqueous	2	
13091145-08A	MW-13	Aqueous	2	
13091145-09A	MW-14	Aqueous	2	
13091 145-10A	MW-IA	Aqueous	2	



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Date: 18-Sep-13	(	Work Order: 13091145								
Method Blank File ID: 13091604.D									09/16/2013 10:40	-1-21
Sample ID: MBLK M\$09W0916B	Units : µg/L		SD_09_1309			Prep D		09/16/2013 10:40		
Analyte	Result	PQL	SpkVal	SpkRefVal 1	%REC	LCL(ME)	UCL(ME) F	RPDReft	/al %RPD(Limit)	Qua
TPH-P (GRO)	ND	50				,				
Surr. 1,2-Dichloroethane-d4	11.3		10		113	70	130			
Surr: Toluene-d8 Surr: 4-Bromofluorobenzene	10.8		10		108	70	130			
Suit. 4-Bromonuoropenzene	9.79		10		98	70	130			
Laboratory Control Spike										
File ID: 13091603.D		s Date:	: <b>09/16/2013 10:07</b>							
Sample ID: GLCS MS09W0916B	Units: µg/L		Run ID: M	BD_09_1309	16A		Prep D	ate:	09/16/2013 10:07	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME) F	PDReft	/al %RPD(Limit)	Qua
TPH-P (GRO)	382	50			95	70	130			
Surr: 1,2-Dichloroethane-d4	10.9		10		109	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.65		10		97	70	130			
Sample Matrix Spike		Type M	IS TO	est Code: EP	A Met	hod SW80	15B/C / SV	/8260B		
File ID: 13091617,D			Ba	etch ID: MS0	9W091	16B	Analysi	s Date:	09/16/2013 16:09	
Sample ID: 13091145-06AGS	Units : µg/L		Run ID: M	BD 09 1309	16A		Prep D		09/16/2013 16:09	
Analyte	Result	PQL				LCL(ME)	•		/al %RPD(Limit)	Qua
TPH-P (GRO)	1880	250		0	94	54	143			
Surr: 1,2-Dichloroethane-d4	54		50	•	108	70	130			
Surr: Toluene-d8	50.7		50		101	70	130			
Surr: 4-Bromofluorobenzene	49		50		98	70	130			
Sample Matrix Spike Duplicate		Туре М	SD To	est Code: EP	A Met	hod SW80	15B/C / SV	/8260B		
File ID: 13091618.D		s Date:	09/16/2013 16:33							
Sample ID: 13091145-06AGSD	Units : µg/L								09/16/2013 16:33	
Analyte	Result	PQL.				LCL(ME)			/al %RPD(Limit)	Qua
TPH-P (GRO)	1810	250		0	90	54	143	1884		
Surr. 1,2-Dichloroethane-d4	52.4		50	Ū	105	70	130	1004	4.1(23)	
Surr: Toluene-d8	52		50		104	70	130			
Surr: 4-Bromofluorobenzene	50.3		50		101	70	130			

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.



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Method Blank   Type MBLK   Test Code: EPA Method \$W8260B   Batch ID: MS09W0916A   Analysis Date: 09/16/2013 10:4	Qual
Result   PQL   SpkVal   SpkRefVal %REC   LCL(ME)   UCL(ME)   RPDRefVal %RPD(Limit)	Qual
Result   PQL   SpkVal   SpkRefVal   %REC   LCL(ME)   UCL(ME)   RPDRefVal   %RPD(Limit)	
Benzene	
Toluene	
Ethylbenzene MD 0.5 mp. Xylene ND 0.5 with the control of the cont	
MD   ND   0.5   ND	
c-Xylene         ND         0.5           Surr. 1,2-Dichloroethane-d8         11.3         10         113         70         130           Surr. Totuene-d8         10.8         10         108         70         130           Surr. 4-Bromofituorobenzene         9.79         10         98         70         130           Laboratory Control Spike         Type LCS         Test Code: EPA Method 8W8260B           File ID: 13091602.D         Run ID: MSD9W0916A         Analysis Date: 09/16/2013 09:3           Analyte         Result         PQL         SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)           Benzene         8.75         0.5         10         88         70         130           Toluene         8.95         0.5         10         90         80         120           Ethylbenzene         8.6         0.5         10         96         65         139           Ethylbenzene         9.56         0.5         10         96         65         139           Surr: 1,2-Dichloroethane-d4         12.1         10         121         70         130           Surr: 2,-Dichloroethane-d8         9.87         10 <th></th>	
Surr: Totuene-d8 Surr: 4-Bromofluorobenzene         10.8 9.79         10 98 70 130         130 130           Laboratory Control Spike         Type LCS         Test Code: EPA Method 8W8260B           File ID: 13091602.D         Batch ID: MS09W0916A         Analysis Date: 09/16/2013 09:3           Sample ID: LCS MS09W0916A         Units : μg/L         Run ID: MSD_09_130916A         Prep Date: 09/16/2013 09:3           Analyte         Result         PQL         SpkVel SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)           Benzene         8.75         0.5         10         88 70         130           Toluene         8.95         0.5         10         85 80         120           Ethylbenzene         8.6         0.5         10         85 80         120           Ethylbenzene         8.93         0.5         10         96 65         139           O-Xylene         9.56         0.5         10         96 65         139           Surr: 1.2-Dichloroethane-d4         12.1         10         121 70         130           Surr: Toluene-d8         9.87         10         99 70         130           Surr: Toluene-d8         9.87         10         99 70         130           Surr: 4-Bromofluorobenzene         9.0	
Surr: 4-Bromofluorobenzene   9.79   10   98   70   130	
Type LCS	
File ID: 13091602.D  Sample ID: LCS MS09W0916A  Analyse  Result  PQL  SpkVal  SpkRefVal  SpkRefVal  Result  PQL  SpkVal  SpkRefVal  Result  PQL  SpkVal  SpkRefVal  Result  PQL  SpkVal  SpkRefVal  Result  Result  PQL  SpkVal  SpkRefVal  Result  PQL  SpkVal  SpkRefVal  Result  PQL  SpkRefVal  Result  Result  PQL  SpkRefVal  Result  PROL  SpkRefVal  Result  Prep Date: 09/16/2013 09:3  09/16/2013 09:3  09/16/2013 09:3  Run ID: MS09W0916A  Prep Date: 09/16/2013 15:  Prep Date: 09/	
Sample   D:   LCS MS09W0916A   Units :   µg/L   Run   D: MSD_09_130916A   Prep Date:   09/16/2013 09:	
Analyte         Result         PQL         SpkVal         SpkRefVal         %REC         LCL(ME)         UCL(ME)         RPDRefVal         %RPD(Limit)           Benzene         8.75         0.5         10         88         70         130           Toluene         8.95         0.5         10         90         80         120           Ethylbenzene         8.5         0.5         10         85         80         120           m,p-Xylene         9.56         0.5         10         96         65         139           o-Xylene         8.93         0.5         10         89         70         130           Surr: 1,2-Dichloroethane-d4         12.1         10         121         70         130           Surr: Toluene-d8         9.87         10         99         70         130           Surr: 4-Bromofluorobenzene         9.02         10         90         70         130           Sample Matrix Spike         Type MS         Test Code: EPA Method SW8260B           File ID: 13091615.D         Batch ID: MS09W9916A         Analysis Date: 09/16/2013 15:           Sample ID:         13091145-06AMS         Units: μg/L         Run ID: M	9
Result   PQL   SpkVal   SpkRefVal %REC   LCL(ME)   UCL(ME)   RPDRefVal %RPD(Limit)	
Toluene 8.95 0.5 10 90 80 120  Ethylbenzene 8.5 0.5 10 85 80 120  m,p-Xylene 9.56 0.5 10 96 65 139  o-Xylene 8.93 0.5 10 89 70 130  Surr. 1,2-Dichloroethane-d4 12.1 10 121 70 130  Surr. Toluene-d8 9.87 10 99 70 130  Surr. 4-Bromofluorobenzene 9.02 10 90 70 130  Sample Matrix Spike Type MS Test Code: EPA Method SW8260B  File ID: 13091615.D Batch ID: MS09W9916A Analysis Date: 09/16/2013 15:  Sample ID: 13091145-06AMS Units: µg/L Run ID: MSD_09_130916A Prep Date: 09/16/2013 15:	Qual
Toluene 8.95 0.5 10 90 80 120  Ethylbenzene 8.5 0.5 10 85 80 120  m,p-Xylene 9.56 0.5 10 96 65 139  c-Xylene 8.93 0.5 10 89 70 130  Surr. 1,2-Dichloroethane-d4 12.1 10 121 70 130  Surr. Toluene-d8 9.87 10 99 70 130  Surr. 4-Bromofluorobenzene 9.02 10 90 70 130  Sample Matrix Spike Type MS Test Code: EPA Method SW8260B  File ID: 13091615.D Batch ID: MS09W9916A Analysis Date: 09/16/2013 15:  Sample ID: 13091145-06AMS Units: µg/L Run ID: MSD_09_130916A Prep Date: 09/16/2013 15:	
m,p-Xylene 9.56 0.5 10 96 65 139   c-Xylene 8.93 0.5 10 89 70 130   Surr. 1,2-Dichloroethane-d4 12.1 10 121 70 130   Surr. Toluene-d8 9.87 10 99 70 130   Surr. 4-Bromofluorobenzene 9.02 10 90 70 130   Sample Matrix Spike Type MS Test Code: EPA Method SW8260B   File ID: 13091615.D   Sample ID: 13091145-06AMS Units: µg/L Run ID: MSD_09_130916A Prep Date: 09/16/2013 15:	
o-Xylene       8.93       0.5       10       89       70       130         Surr. 1,2-Dichloroethane-d4       12.1       10       121       70       130         Surr. Toluene-d8       9.87       10       99       70       130         Surr. 4-Bromofluorobenzene       9.02       10       90       70       130         Sample Matrix Spike       Type MS       Test Code: EPA Method: SW8260B         File ID: 13091615.D       Batch ID: MS09W0916A       Analysis Date: 09/16/2013 15:         Sample ID: 13091145-06AMS       Units: µg/L       Run ID: MSD_09_130916A       Prep Date: 09/16/2013 15:	
Surr: 1,2-Dichloroethane-d4       12.1       10       121       70       130         Surr: Toluene-d8       9.87       10       99       70       130         Surr: 4-Bromofluorobenzene       9.02       10       90       70       130         Sample Matrix Spike       Type MS       Test Code: EPA Method: SW8260B         File ID: 13091615.D       Batch ID: MS09W0916A       Analysis Date: 09/16/2013 15:         Sample ID: 13091145-06AMS       Units: µg/L       Run ID: MSD_09_130916A       Prep Date: 09/16/2013 15:	
Surr: Toluene-d8       9.87       10       99       70       130         Surr: 4-Bromofluorobenzene       9.02       10       90       70       130         Sample Matrix Spike       Type MS       Test Code: EPA Method SW8260B         File ID: 13091616.D       Batch ID: M S09W0916A       Analysis Date: 09/16/2013 15:         Sample ID: 13091145-06AMS       Units: µg/L       Run ID: M SD_09_130916A       Prep Date: 09/16/2013 15:	
Sum: 4-Bromofluorobenzene         9.02         10         90         70         130           Sample Matrix Spike         Type MS         Test Code: EPA Method SW8260B           File ID: 13091616.D         Betch ID: MS09W0916A         Analysis Date: 09/16/2013 15:           Sample ID: 13091145-06AMS         Units: µg/L         Run ID: MSD_09_130916A         Prep Date: 09/16/2013 15:	
Sample Matrix Spike         Type MS         Test Code: EPA Method SW8260B           File ID: 13091615.D         Batch ID: MS09W0916A         Analysis Date: 09/16/2013 15:           Sample ID: 13091145-06AMS         Units: µg/L         Run ID: MSD_09_130916A         Prep Date: 09/16/2013 15:	
File ID: 13091616.D Batch ID: MS09W0916A Analysis Date: 09/16/2013 15: Sample ID: 13091145-06AMS Units: µg/L Run ID: MSD_09_130916A Prep Date: 09/16/2013 15:	
Sample ID: 13091145-06AMS Units: µg/L Run ID: MSD_09_130916A Prep Date: 09/16/2013 15:	
annihitation to the continue of the continue o	
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit,	
	Qual
Benzene 42 1.3 50 0 84 67 134	
Toluene 45.9 1.3 50 0 92 38 130	
Ethylbenzene 44.5 1.3 50 0 89 70 130 m.p-Xvlene 50.1 1.3 50 0 100 65 139	
The state of the s	
o-Xylene 48.6 1.3 50 0 97 69 130 Surr: 1,2-Dichloroethane-d4 55.8 50 112 70 130	
Surr. Toluene-d8 48.8 50 98 70 130	
Surr: 4-Bromofluorobenzene 43.8 50 88 70 130	
Sample Matrix Spike Duplicate Type MSD Test Code: EPA Nethod SW8260B	
File ID: 13091616.D Batch ID: MS09W0916A Analysis Date: 09/16/2013 15:	44
Sample ID: 13091145-06AMSD Units: µg/L Run ID: MSD_09_130916A Prep Date: 09/16/2013 15:	44
Analyte Result PQL SpkVai SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit	<del></del>
Benzene 48.6 1.3 50 0 97 67 134 41.99 14.7(21)	
Toluene 53.1 1.3 50 0 106 38 130 45.9 14.5(20)	
Ethylbenzene 51 1.3 50 0 102 70 130 44.45 13.8(20)	
m,p-Xylene 57.1 1.3 50 0 114 65 139 50.14 13.0(20)	
o-Xylene 55.1 1.3 50 0 110 69 130 48.55 12.7(20)	
Surr: 1,2-Dichloroethane-d4 56.2 50 112 70 130	
Surr: Toluene-d8 49.2 50 98 70 130	
Surr: 4-Bromofluorobenzene         44.5         50         89         70         130	



255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778 (775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:	
18_Sep_1	,

QC Summary Report

Work Order: 13091145

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing information:

Suite 550

### CHAIN-OF-CUSTODY RECORD

### Alpha Analytical, Inc. WorkOrder: STR13091145

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406 **EMail Address** Report Attention Phone Number kaseyjones@stratusinc.net (530) 676-6004 x

**EDD Required: Yes** 

Cooler Temp

3°C

Sampled by: Carl Schulze

Samples Received

PO:

Client:

Client's COC #: 13686

Cameron Park, CA 95682-8861

Stratus Environmental

3330 Cameron Park Drive

Kasey Jones

Job: 2076-0301-01/German Autocraft

11-Sep-13

Report Due By: 5:00 PM On: 18-Sep-13

**Date Printed** 11-Sep-13

Page: 1 of 1

QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Requested Tests Collection No. of Botties VOC W Alpha Client TPH/P\_W Sample Remarks Matrix Date Alpha Sub TAT Sample ID Sample ID BTXE\_C GAS-C STR13091145-01A MW-2 AQ 09/09/13 3 0 5 12:22 GAS-C BTXE\_C AQ 09/09/13 3 0 5 MW-3 STR13091145-02A 12:02 BTXE C GAS-C AQ 09/09/13 3 0 5 STR13091145-03A MW-8 11:00 BTXE C GAS-C AQ 09/09/13 3 0 5 STR13091145-04A MW-9 07:35 BTXE\_C GAS-C 09/09/13 STR13091145-05A MW-10 AQ 3 0 5 09:07 BTXE\_C AQ 09/09/13 3 0 5 GAS-C STR13091145-06A MW-11 08:11 BIXE C GAS-C AQ 09/09/13 3 0 5 STR13091145-07A MW-12 09:45 BTXE\_C AQ 09/09/13 3 0 5 GAS-C STR13091145-08A MW-13 10:16 BTXE C GAS-C STR13091145-09A AQ 09/09/13 3 0 5 MW-14 10:41 GAS-C BTXE C AQ 09/09/13 3 0 5 STR13091145-10A MW-1A 08:28

Comments:

Security seals intact, Frozen ice.:

Date/Time Company Print Name Signature 11/12 WZZ Alpha Analytical, Inc. Logged in by:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)

Company:  Attn:  Address:  CRy, State, Zip:  Phone Number:  Silling Information:  Environmenta  Address:  Cameron Park Dr. Sule SSO  Cameron Park CA 9568 Z  Fax:					Analytical to the state of the	Na S	Alpha Analytical, Inc.  Main Laboratory: 255 Glendale Ave, Suite 21 Sperks, NV 88431  Satellite Service Centers:  Northern CA: 9891 Horn Road, Suite C, Rencho Cordova, CA 96827  Southern NV: 8256 McLeod Ave, Suite 24, Las Vegas, NV 89120  Southern CA: 1007 E. Dominguez St., Bulle O, Carson, CA 90748									775-355-1044 775-355-0406 916-368-9089 702-281-4846 714-388-2901		13686			
Company: Address: City, State, Zip:	Consu 30 Sc		tocraft th Street CA	Job # Job Name: P.O. #:	Job and Purchase Ord 2076 - C	er info:	0\	- -	Finance: Email Add Phone #: Cell #:		Itention/Pr	oject Manu				Global ID	quired? Ye				1V
Time Samples Collect Samples	Mairtir ed (See Ke) D) Below)	Leb io Number	For Leb User Only)		a Description	Sha	C Field Flared?	Containers* (Bar Key Ballow)	K GRO	× 616 ×			Analysis Rec	usested						Remark	DB .
ADDITIONAL INI  I (field eampler) Sampled By: Relinquished by: Relinquished by:	Signature/A	validity and author School P	aticity of this eample	Date: Of Of 13 Date:	Time: Time:	ally cololat	Received Received	by: (Signal	A CA	ion): IOM ion):		n is consider		i may be g	rounds fo	r logal act	Date:	445.0636 ( 0913 11/13	c) ( <b>2</b> ).	Time: 00°	

\* Key: AQ - Aqueous WA - Waste OT - Other \*\*: L - Lifer V - VQA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense

The report for the analysis of the above samples is applicable only to those samples.

received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

### **APPENDIX D**

# GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

### STATE WATER RESOURCES CONTROL BOARD

# **GEOTRACKER ESI**

**UPLOADING A GEO\_WELL FILE** 

### **SUCCESS**

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type:

GEO\_WELL

**Report Title:** 

3Q13 QMR Geowell 9-9-13

Facility Global ID:

T0600100639

**Facility Name:** 

**GERMAN AUTOCRAFT** 

File Name:

GEO\_WELL.zip

**Organization Name:** 

Stratus Environmental, Inc.

<u>Username:</u>

**STRATUS NOCAL** 

**IP Address:** 

50.192.223.97

Submittal Date/Time:

9/25/2013 2:45:23 PM

**Confirmation Number:** 

6324052929

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### STATE WATER RESOURCES CONTROL BOARD

# **GEOTRACKER ESI**

**UPLOADING A EDF FILE** 

### **SUCCESS**

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: EDF

Report Title: 3Q13 Analytical 9-9-13

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600100639

Facility Name: GERMAN AUTOCRAFT
File Name: 13091145 EDF.zip

Organization Name: Stratus Environmental, Inc.

<u>Username:</u> STRATUS NOCAL <u>IP Address:</u> 50.192.223.97

Submittal Date/Time: 10/7/2013 9:05:22 AM

Confirmation Number: 7124840915

**VIEW QC REPORT** 

**VIEW DETECTIONS REPORT** 

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