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By dehloptoxic at 9:01 am, Aug 10, 2006

August 8, 2006

Rita and Tony Sullins
Don Sul Inc.
187 North L Street
Livermore, CA 94550

Re: Transmittal Letter
Site Location: Arrow Rentals
187 North L Street, Livermore, CA 94550

Dear Mr. Wickham:

On behalf of Rita and Tony Sullins, Don Sul Inc., Geological Technics Inc. (GTI) prepared the Semiannual Groundwater Monitoring, July 2006 that was sent to your office via electronic delivery per Alameda County's guidelines on August 9, 2006.

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

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Rita Sullins".

Rita Sullins
Property Owner
Don Sul Inc.
187 North L Street
Livermore, CA 94550

Geological Technics Inc. _____

REPORT

**Semiannual Groundwater Monitoring
July 2006**

**Arrow Rentals Service
187 North L St.
Livermore, CA 94550**

**Project No. 1262.2
August 8, 2006**

**Prepared for:
Tony & Rita Sullins
Arrow Rentals Service
187 North L St.
Livermore, CA 94550**

**Prepared by:
Geological Technics Inc.
1101 7th Street
Modesto, California 95354
(209) 522-4119**

Geological Technics Inc.

1101 7th Street
Modesto, California 95354
(209) 522-4119/Fax (209) 522-4227

August 8, 2006

Project No.: 1262.2
Project Name: Sullins (L St.)

Tony & Rita Sullins
Arrow Rentals Service
187 North L Street
Livermore, CA 94550

RE: Report: Semiannual Groundwater Monitoring, July 2006
Location: 187 North L Street, Livermore, CA 94550.
(ACEH Fuel Leak Case No. RO0000394)

Dear Mr. & Ms. Sullins:

Geological Technics Inc. has prepared the following Report for the 2nd Quarter 2006 groundwater monitoring event performed on July 7, 2006, at the 187 North L Street property in Livermore. The groundwater data for the event indicate that the plume continues to display a trend of declining concentrations. However, an elevated core of gasoline contamination persists in the location of the former USTs/piping.

Five additional monitoring well sets have been approved for installation and this will allow a clearer understanding of the subsurface lithology. The borings will be installed pending UST Cleanup Fund Program cost pre-approval. Based on the results of this field effort an updated Site Conceptual Model (SCM) report will be developed utilizing the data from the borings.

If you have any questions, please do not hesitate to call me at (209) 522-4119.

Respectfully submitted,

Raynold I. Kablanow II, Ph.D.
Vice President

cc: Jerry Wickham - ACEH
USTCUF
Chris Davidson - City of Livermore

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Geological Technics Inc.

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Modesto, California 95354
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REPORT

Semiannual Groundwater Monitoring July 2006

**Arrow Rentals Services
187 North L St.
Livermore, CA**

Project No. 1262.2
August 8, 2006

EXECUTIVE SUMMARY

This report summarizes the results of the 2nd Quarter 2006 groundwater monitoring and sampling event that took place on July 7, 2006. The average groundwater elevation at the site was 448.37 feet above mean sea level (msl) and the groundwater flow was N76°W at 0.019 ft/ft for this event.

The analytical results of groundwater samples show that detectable concentrations of gasoline range hydrocarbons were present in all four of the site's groundwater monitoring wells for this event. The contamination in the wells continues to display a declining trend with a persistent core remaining in the vicinity of well W-1s (23,000 ug/l TPH-G). The fuel oxygenate compound MTBE was detected in off site down gradient well W-Es, but at an insignificant level (2.4 ug/l) when compared to the TPH-G plume located on site.

Geological Technics Inc. (GTI) submitted our May 26, 2006 "Additional Site Characterization" work plan addendum for five new multi-chambered tubing well sets. The ACEH issued approval of the work plan in their June 9, 2006 letter. The completion of this work will assist in completing the site conceptual model for the site. GTI recommends that the task be scheduled and implemented as soon as cost pre-approval is received from the UST Cleanup Fund.

1.0 GROUNDWATER MONITORING

1.1 Hydrogeology of Site

The average groundwater elevation was 448.37 feet above mean sea level (msl) on July 7, 2006. This corresponds to approximately 29 feet below grade surface (bgs). In order to calculate a groundwater gradient for this event GTI utilized the well casing elevations presented in Environmental Sampling Services May 27, 2004 "*Semiannual Groundwater Monitoring Event, April 2004*" report for the subject site. These elevations were referenced to a City of Livermore datum. The groundwater gradient calculated for this monitoring event was 0.019 ft/ft flowing N76°W.

The gradient direction for the July 2006 monitoring event is shown in Figure 2: Groundwater Gradient Map Water Table Wells. The groundwater elevation data are summarized in Table 1, Appendix A.

1.2 Groundwater Sampling Procedure

On July 7, 2006, Geological Technics Inc. (GTI) staff mobilized to the site to conduct groundwater monitoring of four of the site's monitoring wells. Before sampling was attempted, the wells were sounded for depth to water and then a clear disposable bailer was used to determine if floating product was present. No free product was noted for this event. The wells were purged of at least three well volumes of stagnant water using a dedicated Waterra check-ball assembly and ½ inch tubing or centrifugal pump. Purging continued until the temperature, conductivity, and pH of the groundwater stabilized (<10% variation in three consecutive readings), indicating that formation water representative of aquifer conditions was entering the wells. The multifunction monitoring equipment malfunctioned after the first well (W-Es) was purged and the remaining three wells (W-3s, W-Bs and W-1s) were subsequently purged of three well volumes without field measurements for pH, temperature or conductivity.

Once purging was complete, a water sample was collected from the Waterra tube. Care was taken to minimize sample agitation. Once the sample container was filled and capped, the bottle was inverted, tapped and checked for headspace bubbles. The sample container was identified and labeled with a unique designation, inserted into a foam holder and placed into an ice chest cooled to 4°C for transport to the laboratory. Disposable gloves were used by the technician to collect all samples and were changed with each sample collection.

A chain of custody document, listing all samples collected, accompanied the samples from field to laboratory, thereby providing a means to track the movement of and insure the integrity of the samples.

All well purge water was placed in a 55 gallon DOT approved container. These drums were properly labeled and will be stored on site until their proper disposition can be arranged.

Groundwater monitoring field logs are included in Appendix C.

1.3 Laboratory Analyses

The groundwater samples collected on July 7, 2006, were delivered to Entech Analytical Labs, Inc. of Santa Clara, California (Certification No. 2346) for analysis.

The groundwater samples were analyzed for:

- Benzene, Toluene, Ethyl Benzene and Xylene (BTEX) by EPA method 8260B
- Total Petroleum Hydrocarbons as Gasoline (TPH-G) by GC/MS
- Total Petroleum Hydrocarbons as Diesel (TPH-D) by EPA method 8015B
- Oxygenated Fuel Compounds (MTBE, DIPE, ETBE, TAME & TBA) by EPA method 8260B
- EDB and 1,2 DCA by EPA method 8260B

The results and detection limits for the above analyses are listed in Table 2 of Appendix A while the lab analytical results are presented in Appendix B.

As required under AB2886, the depth to groundwater and laboratory data were submitted electronically to GeoTracker on August 8, 2006 - confirmation numbers 5156036198 & 6181100308.

2.0 FINDINGS AND DISCUSSION

The results of the groundwater sample analyses indicate the following:

- Well W-1s contains significant levels of BTEX and TPH-G contamination.
- Well W-3s contains low levels of BTEX and TPH-G contamination.
- Well W-Bs contains elevated levels of BTEX and TPH-G contamination.
- Well W-Es did not contain BTEX and TPH-G contamination above the laboratory reporting limits. However, it did contain 2.4 ug/l MTBE.
- Figure 3 illustrates TPH-G concentration versus time in well W-1s (located in the vicinity of the core of the contaminant plume). With the exception of events in 1997 and 2001 the contaminant concentrations display a declining trend. The two peaks evident in Figure 3 suggest that significant contaminant mass is present although decades have past since the original USTs were removed.
- Figure 4 illustrates TPH-G concentration versus time in well W-3s (located down/cross gradient of the core of the plume). The contaminant concentrations show a declining trend.

- The direction of groundwater flow was westerly during the last two monitoring events conducted for the investigation in 2004 and now this 2006 event.
- Oxidation-Reduction Potential (ORP) and Dissolved Oxygen (DO) were measured (Table 3, Appendix B) and the results suggest that all four wells are within the halo of reaction depleted water caused by biodegradation of the contaminants.
- Figure 6 is a contour map indicating GTI's interpretation of the TPH-G plume on July 7, 2006. The groundwater plume is localized in the vicinity of the former USTs/piping trenches.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

1. Elevated concentrations of BTEX and TPH-G are present in a laterally limited (probably less than 300 foot radius) groundwater plume that is centered on well W-1s.
2. The 2.4 ug/l MTBE detected in down gradient well W-Es is insignificant in comparison to the BTEX and TPH-G plumes and may not actually be related to this plume.
3. The lateral extent of the TPH-G plume is defined to the west by well W-Es.
4. The center of the plume has not migrated beyond the source area providing evidence that the plume is degrading as it migrates laterally by advective flow.
5. The data shows that the core of the plume is fairly stable, with concentrations decreasing very slowly by either natural biodegradation causes or by dilution effects.

Recommendations

- Maintain the current semiannual monitoring schedule.
- GTI submitted our May 26, 2006 "Additional Site Characterization" work plan addendum for five new multi-chambered tubing well sets. The ACEH issued approval of the work plan in their June 9, 2006 letter. GTI recommends that the task be implemented as soon as cost pre-approval is received from the UST Cleanup Fund.
- GTI submitted our June 28, 2006 "Dual Phase Extraction and Air Sparging Pilot Test" feasibility study work plan for ACEH approval. The work plan includes provisions for performing dual phase extraction and air sparging testing to determine the effectiveness of these remedial methods at the site. Upon regulatory approval of the work plan GTI recommends that the task be implemented as soon as cost pre-approval is received from the UST Cleanup Fund.

4.0 LIMITATIONS

This report was prepared in accordance with the generally accepted standard of care and practice in effect at the time Services were rendered. It should be recognized that definition and evaluation of environmental conditions is an inexact science and that the state or practice

of environmental geology/hydrology is changing and evolving and that standards existing at the present time may change as knowledge increases and the state of the practice continues to improve. Further, that differing subsurface soil characteristics can be experienced within a small distance and therefore cannot be known in an absolute sense. All conclusions and recommendations are based on the available data and information.

The tasks proposed and completed during this project were reviewed and approved by the local regulatory agency for compliance with the law. No warranty, expressed or implied, is made.

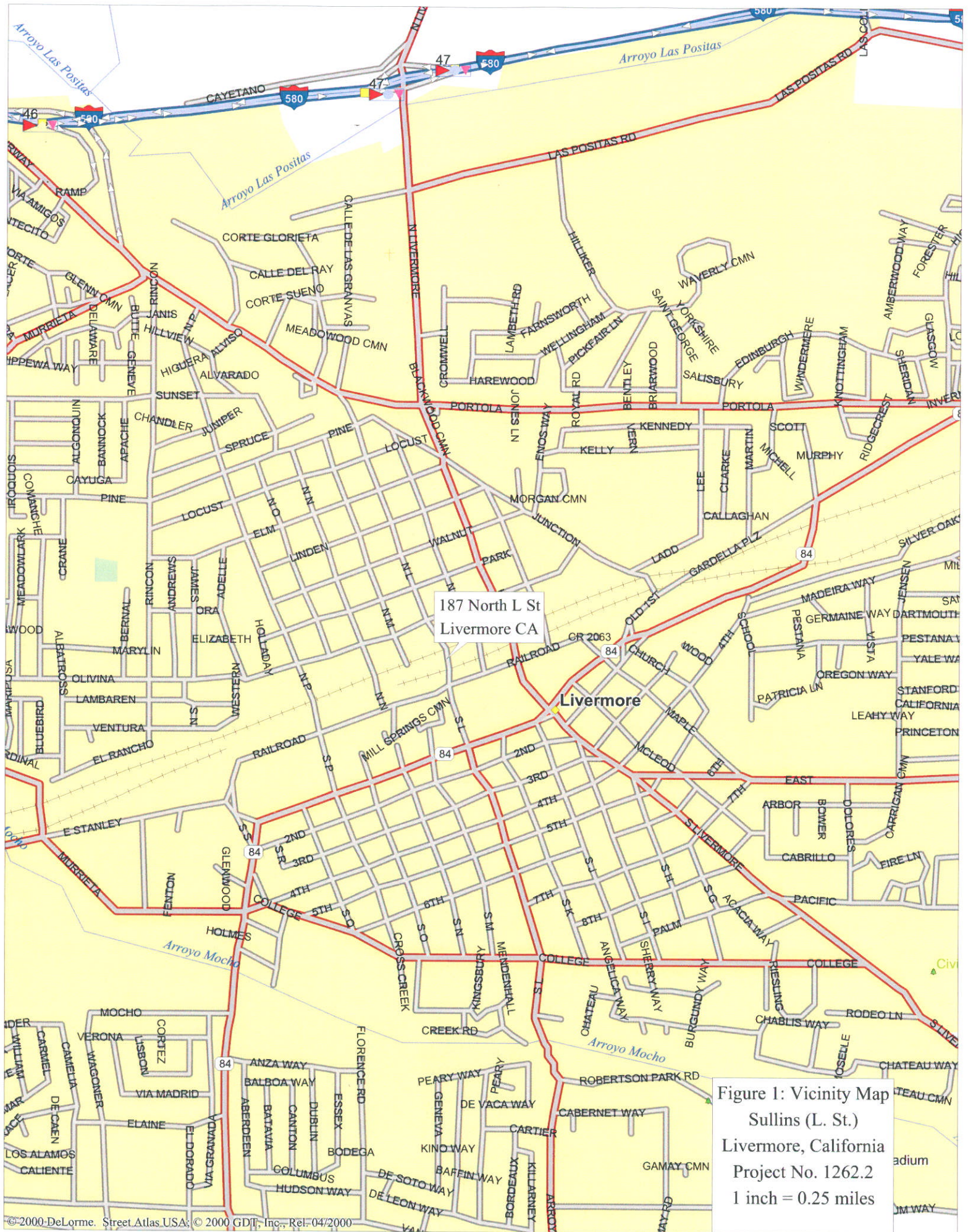
5.0 SIGNATURES & CERTIFICATION

This report was prepared by:

Joseph D. Angulo
Geologist

Raynold Kablanow II, Ph.D.
California Professional Geologist #5234
Certified Hydrogeologist #442





187 North L St
Livermore CA

Figure 1: Vicinity Map
Sullins (L. St.)
Livermore, California
Project No. 1262.2
1 inch = 0.25 miles

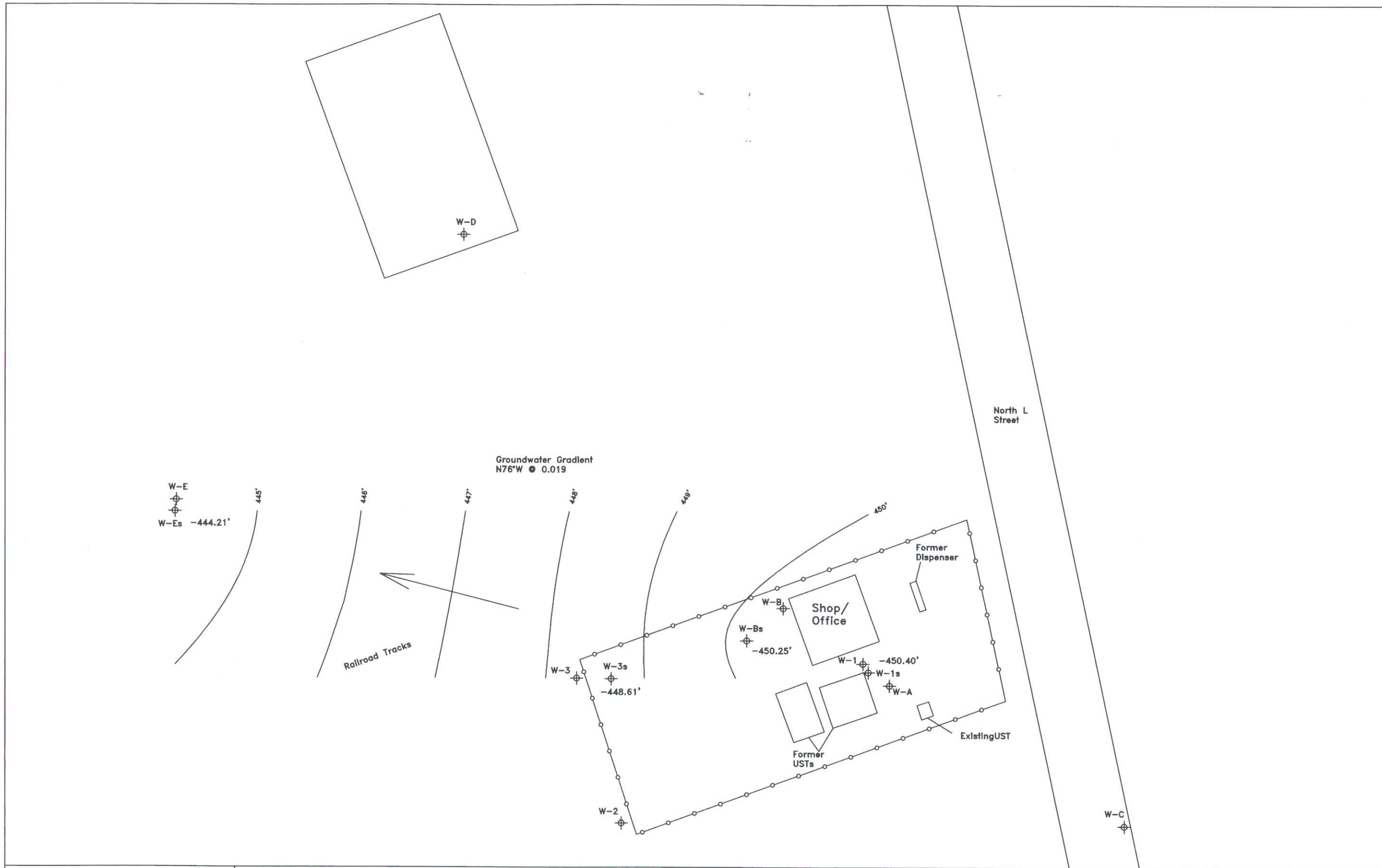


Fig 2: Groundwater Gradient Map
Water Table Wells
July 7, 2006

Arrow Rentals
187 North L Street
Livermore, CA

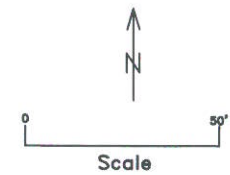
Geological Technics Inc.

8/7/06

-33.66' Groundwater Elev.
Gradient calculated by computer generated contours.
Contour Interval = 1 ft

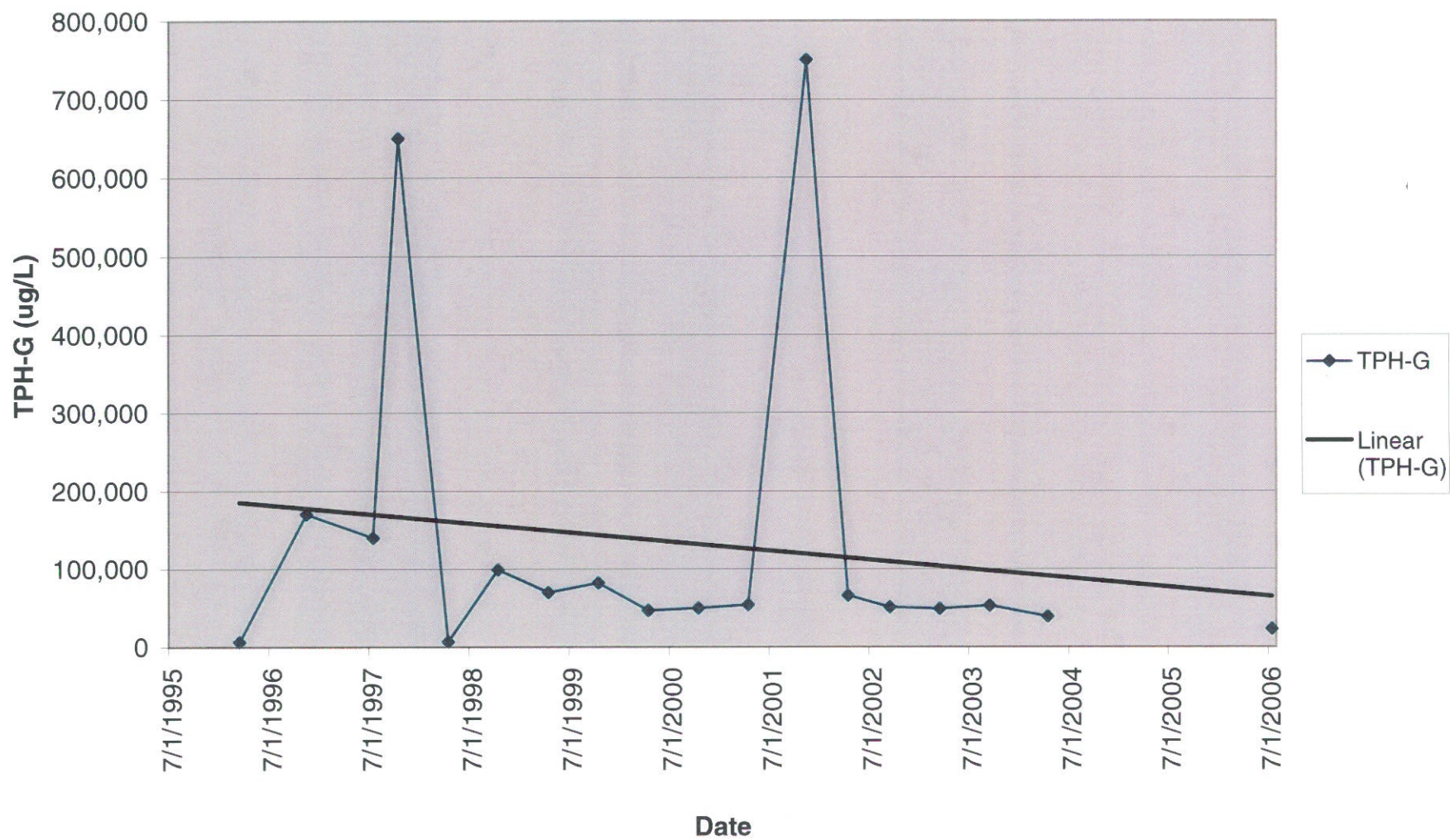
Legend

-  Monitoring Well
-  Soil Boring



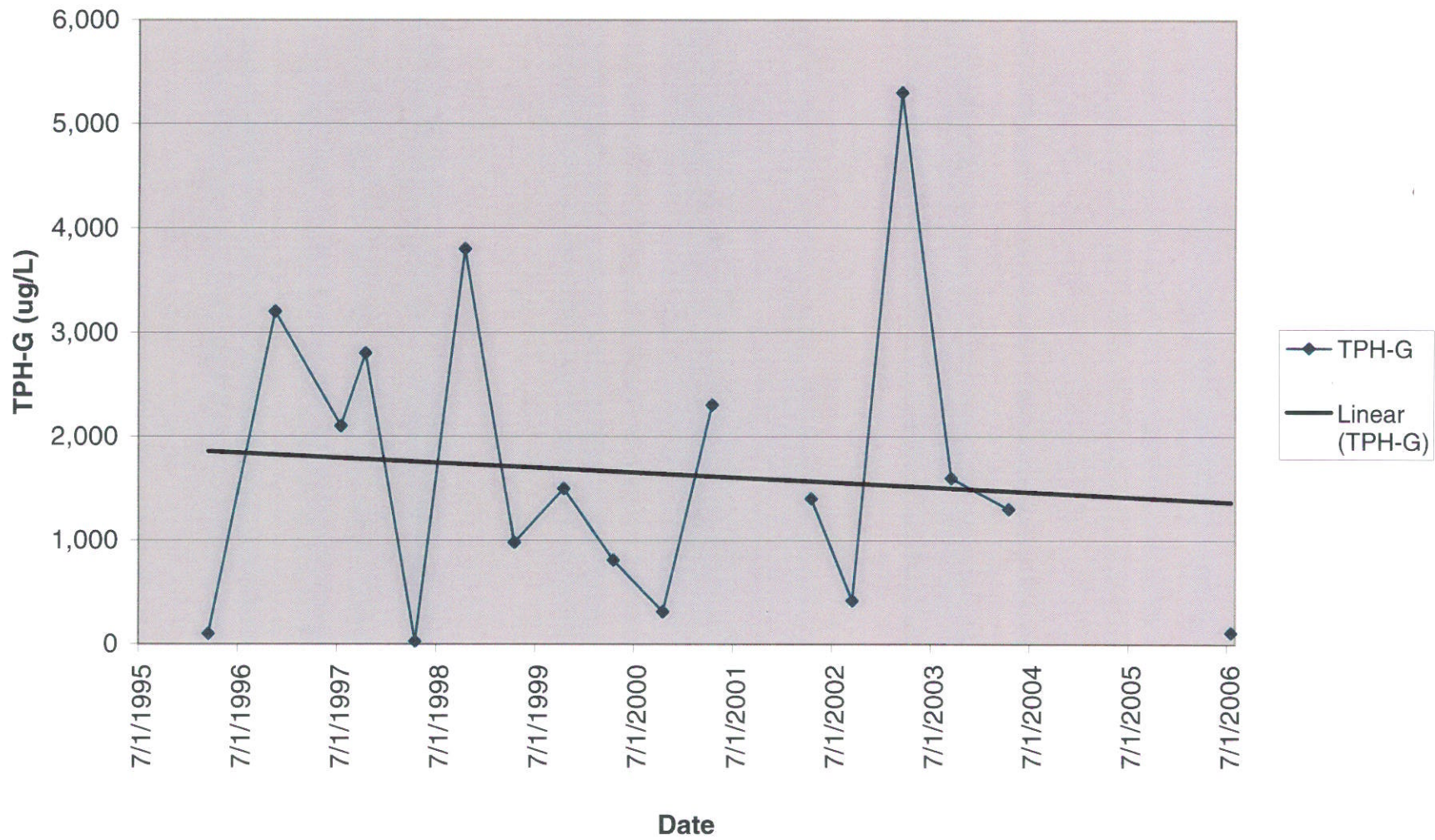
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Figure 3: TPH-G vs. Time Well W-1s



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Figure 4: TPH-G vs. Time Well W-3s



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Figure 5: TPH-G vs. Time Well W-Bs

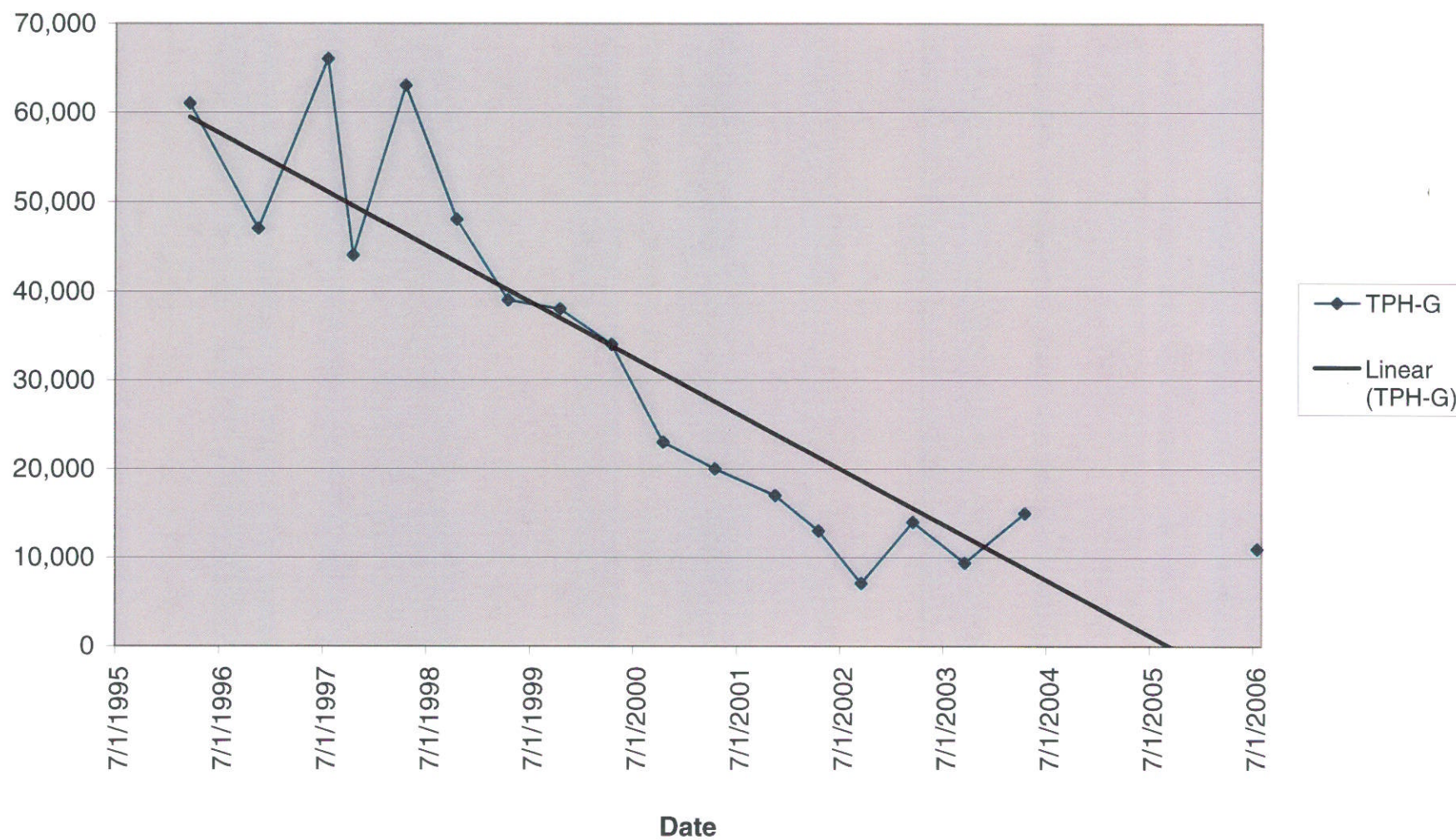




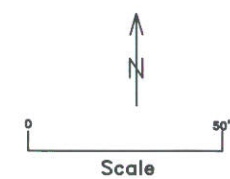
Fig 6: Shallow Well
TPH-G Concentrations

Arrow Rentals
187 North L Street
Livermore, CA

110 = TPH-G ug/L
Contour Interval = 2000 ug/L
ND = Non-defect (<50 ug/L)

Legend

- Monitoring Well
- Soil Boring



Appendix A

Summary Tables

Table 1: Summary of Groundwater Elevation and Gradient - Shallow Wells

Arrow Rentals
187 North L Street
Livermore CA
Project No. 1262.2

Date		Elevation of Groundwater*				Avg. Elv.	Avg. DTW	Gradient	Bearing
		W-1s	W-3s	W-Bs	W-Es	(feet)	(feet)	(ft/ft)	
	<i>top of casing</i>	479.09	476.98	478.82	474.66				
4/29/2004		448.99	447.39	448.83	443.43	447.16	30.23	0.019	West
7/7/2006		450.40	448.61	450.25	444.21	448.37	29.02	0.019	N76°W

Well casing elevation from *Environmental Sampling Services* 5/27/04 Groundwater Monitoring Report

Table 2: Summary of Groundwater Analytical Data

Arrow Rentals
187 North L Street
Livermore CA
Project No. 1262.2

Wells	Date	TPH	TPH	Benzene	Toluene	Ethyl	Total	MTBE	ETBE	DIPE	TAME	TBA	1,2 DCA	EDB
		Gasoline	Diesel	ug/L	ug/L	Benzene	Xylenes	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		ug/L	ug/L			ug/L	ug/L							
W-1s	3/22/1996	6,400	-	580	470	85	1,100	<500	-	-	-	-	-	-
	11/22/1996	170,000	-	13,000	18,000	3,500	18,000	<10000	-	-	-	-	-	-
	7/15/1997	140,000	38,000	12,000	12,000	2,600	16,000	<800	-	-	-	-	-	-
	10/29/1997	650,000	180,000	14,000	19,000	7,800	35,000	<3000	-	-	-	-	-	-
	4/27/1998	6,700	2,200	410	250	77	870	<30	-	-	-	-	-	-
	10/23/1998	99,000	18,000	9,800	9,400	1,800	11,000	<600	-	-	-	-	-	-
	4/9/1999	70,000	24,000	6,500	7,000	1,800	8,900	360	-	-	-	-	-	-
	10/5/1999	82,000	60,000	5,500	4,500	2,500	14,000	<300	-	-	-	-	-	-
	4/5/2000	47,000	15,000	4,300	2,300	1,500	6,100	170	-	-	-	-	-	-
	10/26/2000	50,000	1,200	3,800	1,800	1,700	7,600	<50	-	-	-	-	-	-
	4/18/2001	54,000	6,800	5,200	1,800	1,500	7,000	<330	-	-	-	-	-	-
	11/13/2001	750,000	-	9,500	7,800	7,200	33,000	<2000	-	-	-	-	-	-
	4/30/2002	66,000	8,200	6,000	2,700	2,300	11,000	<1200	-	-	-	-	-	-
	9/30/2002	51,000	1,200	5,600	1,500	2,000	9,400	<1000	-	-	-	-	-	-
	3/19/2003	49,000	9,800	3,400	880	1,300	7,300	<500	-	-	-	-	-	-
	9/16/2003	53,000	24,000	4,100	1,200	1,400	6,600	<1000	-	-	-	-	-	-
	4/29/2004	39,000	5,900	3,700	1,200	810	4,700	<2500	-	-	-	-	-	-
	7/7/2006	23,000	<500	4,000	710	1,200	2,900	<100	<500	<500	<500	<1000	<50	<50
W-3s	3/22/1996	100	-	13	6.9	5.3	14	<5	-	-	-	-	-	-
	11/22/1996	3,200	-	270	29	63	100	<100	-	-	-	-	-	-
	7/15/1997	2,100	340	230	7	33	51	<20	-	-	-	-	-	-
	10/29/1997	2,800	750	630	31	71	69	<30	-	-	-	-	-	-
	4/27/1998	<50	<50	<0.5	<0.5	<0.5	<0.5	<3	-	-	-	-	-	-
	10/23/1998	3,800	1,000	500	28	90	37	35	-	-	-	-	-	-
	4/9/1999	980	430	240	4	37	3	<12	-	-	-	-	-	-
	10/5/1999	1,500	1,000	290	9.5	53	9.8	<6	-	-	-	-	-	-
	4/5/2000	810	320	150	3	9	5.7	<5	-	-	-	-	-	-
	10/26/2000	310	120	83	3.5	6.4	1.2	<5	-	-	-	-	-	-
	4/18/2001	2,300	1,600	320	8	16	7	<20	-	-	-	-	-	-
	11/13/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/30/2002	1,400	490	320	5.5	24	5	<25	-	-	-	-	-	-
	9/30/2002	420	390	68	1.4	3.1	1.1	<5	-	-	-	-	-	-
	3/19/2003	5,300	1,500	920	24	140	27	<25	-	-	-	-	-	-
	9/16/2003	1,600	1,400	270	1.7	5.2	<0.5	<5	-	-	-	-	-	-
	4/29/2004	1,300	400	210	5.1	23	4.5	<25	-	-	-	-	-	-
	7/7/2006	110	<500	44	0.77	<0.5	<0.5	<1	<5	<5	<5	<10	<0.5	<0.5

Wells	Date	TPH Gasoline ug/L	TPH Diesel ug/L	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes ug/L	MTBE ug/L	ETBE ug/L	DIPE ug/L	TAME ug/L	TBA ug/L	1,2 DCA ug/L	EDB ug/L
W-Bs	3/22/1996	61,000	-	9,800	8,000	2,200	11,000	<5000	-	-	-	-	-	-
	11/22/1996	47,000	-	5,100	3,100	1,400	7,800	<2500	-	-	-	-	-	-
	7/15/1997	66,000	17,000	7,800	4,900	1,900	10,000	<600	-	-	-	-	-	-
	10/29/1997	44,000	27,000	6,000	500	1,500	6,400	380	-	-	-	-	-	-
	4/27/1998	63,000	17,000	6,100	5,400	1,900	9,100	<600	-	-	-	-	-	-
	10/23/1998	48,000	9,600	6,700	1,200	1,500	6,200	<300	-	-	-	-	-	-
	4/9/1999	39,000	12,000	4,100	1,900	1,400	5,600	<300	-	-	-	-	-	-
	10/5/1999	38,000	7,300	3,800	390	1,600	5,900	<60	-	-	-	-	-	-
	4/5/2000	34,000	9,600	3,500	1,200	1,400	4,700	<150	-	-	-	-	-	-
	10/26/2000	23,000	650	2,500	210	1,100	2,600	150	-	-	-	-	-	-
	4/18/2001	20,000	2,500	2,400	180	880	1,800	<20	-	-	-	-	-	-
	11/13/2001	17,000	3,600	2,000	130	1,100	1,700	<150	-	-	-	-	-	-
	4/30/2002	13,000	2,300	1,000	38	660	360	<170	-	-	-	-	-	-
	9/30/2002	7,100	1,500	940	28	260	93	<250	-	-	-	-	-	-
	3/19/2003	14,000	3,900	1,200	77	820	900	<120	-	-	-	-	-	-
	9/16/2003	9,400	1,900	1,300	36	580	160	<150	-	-	-	-	-	-
	4/29/2004	15,000	3,300	2,400	170	1,300	950	<200	-	-	-	-	-	-
	7/7/2006	11,000	<50	1,900	160	820	440	<40	<200	<200	<200	<400	<20	<20
W-Es	3/22/1996	<50	-	<0.5	<0.5	<0.5	<0.5	<5	-	-	-	-	-	-
	11/22/1996	280	-	24	0.6	1.8	2.2	<5	-	-	-	-	-	-
	7/15/1997	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/29/1997	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/27/1998	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/23/1998	82	69	<0.5	0.8	<0.5	0.8	4	-	-	-	-	-	-
	4/9/1999	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/5/1999	68	88	<0.5	<0.5	<0.5	<1.0	4	-	-	-	-	-	-
	4/5/2000	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/26/2000	110	<50	0.7	<0.5	<0.5	<1.0	<5	-	-	-	-	-	-
	4/18/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/13/2001	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/30/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/30/2002	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/19/2003	86	61	<0.5	<0.5	<0.5	<0.5	<5	-	-	-	-	-	-
	9/16/2003	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2004	55	87	0.62	<0.5	<0.5	<0.5	<5	-	-	-	-	-	-
	7/7/2006	<25	<50	<0.5	<0.5	<0.5	<0.5	2.4	<5	<5	<5	<10	<0.5	<0.5

pre- 2006 data adapted from *Environmental Sampling Services* 5/27/04 Groundwater Monitoring Report

"-" = not sampled

Table 3: Summary of O.R.P. Data

Arrow Rentals
187 North L Street
Livermore, California
Project No. 1262.2

Monitoring Well	W-1s					W-3s					W-Bs					W-Es				
	pH	E.C.	Temp	ORP	DO	pH	E.C.	Temp	ORP	DO	pH	E.C.	Temp	ORP	DO	pH	E.C.	Temp	ORP	DO
Date			°C					°C					°C					°C		
7/7/06	-	-	-	-128.5	0.13	-	-	-	-	0.07	-	-	-	-107.3	0.09	7.05	339	20.9	32.9	0.06

Appendix B

Laboratory Analytical Data Sheets

COPY

J

Jenny Weese

From: Erin (Entech Labs) [ecunniffe@entechlabs.com]
Sent: Monday, July 24, 2006 6:00 PM
To: GTI
Subject: Emailing: 50329.pdf, 50329_EDF.zip (1262.2/ Sullins L Street)
Attachments: 50329.pdf; 50329_EDF.zip



50329.pdf (210 KB) 50329_EDF.zip (4 KB)

Attached is your Certificate of Analysis and EDF file.
No hardcopy will be mailed unless you specifically request it.

If you have any questions, please feel free to contact me.

Thanks,

Erin

Erin Cunniffe
Entech Analytical Labs, Inc.
phone #408.588.0200 Ext 238

The message is ready to be sent with the following file or link
attachments:

50329.pdf
50329_EDF.zip

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

**Joe Angulo
Geological Technics, Inc.
1101 7th Street
Modesto, CA 95354**

Lab Certificate Number: 50329

Issued: 07/24/2006

Project Name: 1262.2

Global ID: T0600100116

Project Location: 187 N. L Street

Certificate of Analysis - Final Report

On July 10, 2006, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	Electronic Deliverables for Geotracker TPH-Extractable: EPA 3510C / EPA 8015B VOCs: EPA 5030C / EPA 8260B TPH-Purgeable: GC/MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).

If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Erin Cunniffe
Operations Manager

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Geological Technics, Inc.

1101 7th Street

Modesto, CA 95354

Attn: Joe Angulo

Project Name: 1262.2

Project Location: 187 N. L Street

GlobalID: T0600100116

Certificate of Analysis - Data Report

Samples Received: 07/10/2006

Sample Collected by: Client

Lab # : 50329-001 Sample ID: W-ES

Matrix: Liquid Sample Date: 7/7/2006 10:40 AM

VOCs: EPA 5030C / EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Methyl-t-butyl Ether	2.4		1.0	1.0	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	7/18/2006	WM1060717
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	7/18/2006	WM1060717
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
1,2-Dibromochthane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.2	60 - 130
Dibromofluoromethane	95.3	60 - 130
Toluene-d8	102	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

TPH-Purgeable: GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	7/18/2006	WM1060717

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	93.4	60 - 130
Dibromofluoromethane	103	60 - 130
Toluene-d8	97.2	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	7/14/2006	WD060714A	7/16/2006	WD060714A

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	112	22 - 133

Analyzed by: JHsiang

Reviewed by: dba

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

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Fax: (408) 588-0201

Geological Technics, Inc.
1101 7th Street
Modesto, CA 95354
Attn: Joe Angulo

Project Name: 1262.2
Project Location: 187 N. L Street
GlobalID: T0600100116

Certificate of Analysis - Data Report

Samples Received: 07/10/2006
Sample Collected by: Client

Lab # : 50329-002 Sample ID: W-3S

Matrix: Liquid Sample Date: 7/7/2006 12:20 PM

VOCs: EPA 5030C / EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	44		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Toluene	0.77		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	7/18/2006	WM1060717
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	7/18/2006	WM1060717
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	7/18/2006	WM1060717

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	92.3	60 - 130
Dibromofluoromethane	98.2	60 - 130
Toluene-d8	106	60 - 130

Analyzed by: XBian
Reviewed by: MaiChiTu

TPH-Purgeable: GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	110		1.0	25	µg/L	N/A	N/A	7/18/2006	WM1060717

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	89.7	60 - 130
Dibromofluoromethane	106	60 - 130
Toluene-d8	101	60 - 130

Analyzed by: XBian
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		10	500	µg/L	7/15/2006	WD060715A	7/21/2006	WD060715A
5700 ppb Motor Oil. No diesel pattern present.									

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	51.3	22 - 133

Analyzed by: JHsiang
Reviewed by: ECunniffe

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

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Geological Technics, Inc.
1101 7th Street
Modesto, CA 95354
Attn: Joe Angulo

Project Name: 1262.2
Project Location: 187 N. L Street
GlobalID: T0600100116

Certificate of Analysis - Data Report

Samples Received: 07/10/2006
Sample Collected by: Client

Lab #: 50329-003 Sample ID: W-BS Matrix: Liquid Sample Date: 7/7/2006 1:50 PM

VOCs: EPA 5030C / EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	1900		40	20	µg/L	N/A	N/A	7/18/2006	WM1060717
Toluene	160		40	20	µg/L	N/A	N/A	7/18/2006	WM1060717
Ethyl Benzene	820		40	20	µg/L	N/A	N/A	7/18/2006	WM1060717
Xylenes, Total	440		40	20	µg/L	N/A	N/A	7/18/2006	WM1060717
Methyl-t-butyl Ether	ND		40	40	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Butyl Ethyl Ether	ND		40	200	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Butanol (TBA)	ND		40	400	µg/L	N/A	N/A	7/18/2006	WM1060717
Diisopropyl Ether	ND		40	200	µg/L	N/A	N/A	7/18/2006	WM1060717
tert-Amyl Methyl Ether	ND		40	200	µg/L	N/A	N/A	7/18/2006	WM1060717
1,2-Dichloroethane	ND		40	20	µg/L	N/A	N/A	7/18/2006	WM1060717
1,2-Dibromoethane (EDB)	ND		40	20	µg/L	N/A	N/A	7/18/2006	WM1060717

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	93.7	60 - 130
Dibromofluoromethane	94.5	60 - 130
Toluene-d8	97.6	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

TPH-Purgeable: GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	11000		40	1000	µg/L	N/A	N/A	7/18/2006	WM1060717

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	91.0	60 - 130
Dibromofluoromethane	102	60 - 130
Toluene-d8	93.2	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	7/15/2006	WD060715A	7/19/2006	WD060715A

1700 ppb Higher Boiling Gasoline Compounds (C8-C18). No Diesel pattern present.

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	48.1	22 - 133

Analyzed by: JHsiang

Reviewed by: ECumiffe

Entech Analytical Labs, Inc.

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Geological Technics, Inc.

1101 7th Street

Modesto, CA 95354

Attn: Joe Angulo

Project Name: 1262.2

Project Location: 187 N. L Street

GlobalID: T0600100116

Certificate of Analysis - Data Report

Samples Received: 07/10/2006

Sample Collected by: Client

Lab #: 50329-004 Sample ID: W-1S

Matrix: Liquid Sample Date: 7/7/2006 3:20 PM

VOCs: EPA 5030C / EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	4000		100	50	µg/L	N/A	N/A	7/19/2006	WM1060718
Toluene	710		100	50	µg/L	N/A	N/A	7/19/2006	WM1060718
Ethyl Benzene	1200		100	50	µg/L	N/A	N/A	7/19/2006	WM1060718
Xylenes, Total	2900		100	50	µg/L	N/A	N/A	7/19/2006	WM1060718
Methyl-t-butyl Ether	ND		100	100	µg/L	N/A	N/A	7/19/2006	WM1060718
tert-Butyl Ethyl Ether	ND		100	500	µg/L	N/A	N/A	7/19/2006	WM1060718
tert-Butanol (TBA)	ND		100	1000	µg/L	N/A	N/A	7/19/2006	WM1060718
Diisopropyl Ether	ND		100	500	µg/L	N/A	N/A	7/19/2006	WM1060718
tert-Amyl Methyl Ether	ND		100	500	µg/L	N/A	N/A	7/19/2006	WM1060718
1,2-Dichloroethane	ND		100	50	µg/L	N/A	N/A	7/19/2006	WM1060718
1,2-Dibromoethane (EDB)	ND		100	50	µg/L	N/A	N/A	7/19/2006	WM1060718

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105	60 - 130
Dibromofluoromethane	100	60 - 130
Toluene-d8	93.5	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

TPH-Purgeable: GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	23000		100	2500	µg/L	N/A	N/A	7/19/2006	WM1060718

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	90.9	60 - 130
Dibromofluoromethane	108	60 - 130
Toluene-d8	100	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		10	500	µg/L	7/15/2006	WD060715A	7/21/2006	WD060715A

8300 ppb Higher Boiling Gasoline Compounds (C8-C18). No Diesel pattern present.

Surrogate	Surrogate Recovery	Control Limits (%)
o-Terphenyl	65.3	22 - 133

Analyzed by: JHsiang

Reviewed by: ECunniffe

Entech Analytical Labs, Inc.

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

Method Blank - Liquid - VOCs: EPA 5030C / EPA 8260B

QC Batch ID: WM1060717

Validated by: MaiChiTu - 07/18/06

QC Batch Analysis Date: 7/17/2006

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
Benzene	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	95.5	60 - 130
Dibromofluoromethane	81.9	60 - 130
Toluene-d8	95.5	60 - 130

Method Blank - Liquid - TPH-Purgeable: GC/MS

QC Batch ID: WM1060717

Validated by: MaiChiTu - 07/18/06

QC Batch Analysis Date: 7/17/2006

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

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	92.8	60 - 130
Dibromofluoromethane	88.5	60 - 130
Toluene-d8	91.2	60 - 130

Entech Analytical Labs, Inc.

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

LCS / LCSD - Liquid - VOCs: EPA 5030C / EPA 8260B

QC Batch ID: WM1060717

Reviewed by: MaiChiTu - 07/18/06

QC Batch ID Analysis Date: 7/17/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	20.8	µg/L	104	70 - 130
Methyl-t-butyl Ether	<1.0	20	16.2	µg/L	81.0	70 - 130
Toluene	<0.50	20	19.8	µg/L	99.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.3	60 - 130
Dibromofluoromethane	89.6	60 - 130
Toluene-d8	98.5	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	20.3	µg/L	102	2.4	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	15.6	µg/L	78.0	3.8	25.0	70 - 130
Toluene	<0.50	20	18.9	µg/L	94.5	4.7	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	97.5	60 - 130
Dibromofluoromethane	88.2	60 - 130
Toluene-d8	97.4	60 - 130

LCS / LCSD - Liquid - TPH-Purgeable: GC/MS

QC Batch ID: WM1060717

Reviewed by: MaiChiTu - 07/18/06

QC Batch ID Analysis Date: 7/17/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	112	µg/L	89.4	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	92.3	60 - 130
Dibromofluoromethane	87.0	60 - 130
Toluene-d8	90.4	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	127	µg/L	102	13	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	94.6	60 - 130
Dibromofluoromethane	94.1	60 - 130
Toluene-d8	94.5	60 - 130

Entech Analytical Labs, Inc.

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

Method Blank - Liquid - VOCs: EPA 5030C / EPA 8260B

QC Batch ID: WM1060718

Validated by: MaiChiTu - 07/19/06

QC Batch Analysis Date: 7/18/2006

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
Benzene	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	99.8	60 - 130
Dibromofluoromethane	88.3	60 - 130
Toluene-d8	96.4	60 - 130

Method Blank - Liquid - TPH-Purgeable: GC/MS

QC Batch ID: WM1060718

Validated by: MaiChiTu - 07/19/06

QC Batch Analysis Date: 7/18/2006

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

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	96.9	60 - 130
Dibromofluoromethane	95.4	60 - 130
Toluene-d8	92.1	60 - 130

Entech Analytical Labs, Inc.

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

LCS / LCSD - Liquid - VOCs: EPA 5030C / EPA 8260B

QC Batch ID: WM1060718

Reviewed by: MaiChiTu - 07/19/06

QC Batch ID Analysis Date: 7/18/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	20.4	µg/L	102	70 - 130
Methyl-t-butyl Ether	<1.0	20	15.7	µg/L	78.5	70 - 130
Toluene	<0.50	20	19.0	µg/L	95.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	97.0	60 - 130
Dibromofluoromethane	90.9	60 - 130
Toluene-d8	94.4	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	20.7	µg/L	104	1.5	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	16.9	µg/L	84.5	7.4	25.0	70 - 130
Toluene	<0.50	20	19.1	µg/L	95.5	0.52	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	102.0	60 - 130
Dibromofluoromethane	91.3	60 - 130
Toluene-d8	96.1	60 - 130

LCS / LCSD - Liquid - TPH-Purgeable: GC/MS

QC Batch ID: WM1060718

Reviewed by: MaiChiTu - 07/19/06

QC Batch ID Analysis Date: 7/18/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	126	µg/L	101	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	94.6	60 - 130
Dibromofluoromethane	93.5	60 - 130
Toluene-d8	94.3	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	122	µg/L	97.4	3.2	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	95.8	60 - 130
Dibromofluoromethane	93.9	60 - 130
Toluene-d8	91.2	60 - 130

Entech Analytical Labs, Inc.

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

Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B

QC/Prep Batch ID: WD060714A

Validated by: dba - 07/17/06

QC/Prep Date: 7/14/2006

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
o-Terphenyl	51.8	22 - 133

LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B

QC Batch ID: WD060714A

Reviewed by: dba - 07/17/06

QC/Prep Date: 7/14/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	574	µg/L	57.4	40 - 138
TPH as Motor Oil	<200	1000	729	µg/L	72.9	40 - 138

Surrogate	% Recovery	Control Limits
o-Terphenyl	68.1	22 - 133

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	716	µg/L	71.6	22	25.0	40 - 138
TPH as Motor Oil	<200	1000	761	µg/L	76.1	4.2	25.0	40 - 138

Surrogate	% Recovery	Control Limits
o-Terphenyl	76.2	22 - 133

Entech Analytical Labs, Inc.

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

Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B

QC/Prep Batch ID: WD060715A

Validated by: dba - 07/17/06

QC/Prep Date: 7/15/2006

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
o-Terphenyl	45.9	22 - 133

LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B

QC Batch ID: WD060715A

Reviewed by: dba - 07/17/06

QC/Prep Date: 7/15/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	536	µg/L	53.6	40 - 138
TPH as Motor Oil	<200	1000	677	µg/L	67.7	40 - 138

Surrogate	% Recovery	Control Limits
o-Terphenyl	75.0	22 - 133

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	533	µg/L	53.3	0.56	25.0	40 - 138
TPH as Motor Oil	<200	1000	699	µg/L	69.9	3.2	25.0	40 - 138

Surrogate	% Recovery	Control Limits
o-Terphenyl	60.3	22 - 133



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Modesto, CA

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Chain of Custody

Project #: 1262.2		Client/Project Name: SULLINS (L STREET)		Analysis Requested TPH-G (8260) BTEX (8260) 5 OXYG (8260) 12 OCA, WBS (8260) TOH-D (805 M)		Laboratory Name and Address: ENTECH Temp 4°	
Site Address: 187 N. L STREET, LIVERMORE		Global ID No.: T0600100116				Purchase Order #: 83565	
Sampled By: (print and sign name) JOSEPH D. ANGLIO						EDF Report: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
						Turnaround Time: S = Standard 1 day, 2 day, 5 day	
Date	Time	Field I.D.	Sample I.D.	No. of Containers	Matrix (Soil, Water, Gas, Other)	Turnaround Time	Remarks
7/17/06	1040	W-Es	W-Es -001	5	W S		* INTAE, DIPE, ETBE,
	1220	W-3s	W-3s -002	5	W S		TAA, TAME
	1350	W-Bs	W-Bs -003	5	W S		
	1520	W-1s	W-1s -004	5	W S		RL 0.5-1 BTEX
/							RL 0.5 OXY'S,
							LEAD SCREENERS
Relinquished by: (signature) [Signature]		Date: 7/10/06		Time: 11:40		Received by: (signature) [Signature]	
Relinquished by: (signature) [Signature]		Date: 7/10/06		Time: 1040		Received by: (signature)	
Relinquished by: (signature)		Date:		Time:		Received by: (signature)	
		Date:		Time:		Received by: (signature)	

Please return cooler/ice chest to Geological Technics Inc.

Appendix C

Groundwater Monitoring Field Notes

Project Name: SullinsWell I.D.: W-3sProject No.: 1262.2Date: 7/7/2006Project Location: 187 North L Street, Livermore CAWell Condition: Good and SecureSamples sent to: EntechWeather Conditions Sunny, 1 mph wind, 89 degrees

Time	Cumulative Volume Purged (gal)	Temp. C°	E.C. (µmhos/cm)	pH	O.R.P. (millivolts)	Dissolved Oxygen (mg/L)	Remarks
11:21	0	25	-	-	-8.3		Dark brown, odor, sediments
11:42	10	25	-	-	-15.3		Dark brown, odor, sediments
11:51	20	25	-	-	-42.9		Cloudy, odor, sediments
12:00	30	25	-	-	-		Cloudy, odor, few sediments
12:20						0.07	Collected Samples

Purge Method: ☒ Dedicated Waterra ☐ Centrifugal pump with dedicated tubing ☐ Other _____Pumping Rate: 0.77 gal/minCasing diameter: 4Sample Containers used: 4 # VOAs HCL preserved ___ non-preservedTotal depth: 43.131 # amber liters ___ preserved X non-preservedInitial DTW: 28.37

___ # polys ___ size ___ preserved ___ non-preserved

Water column height: 14.76

___ # polys ___ size ___ preserved ___ non-preserved

One casing volume: 9.59Notes: Sheen is visible; Ph meter is not working correctlyDTW at sampling: 29.11Sampled By: R. RodriguezSample Method: Waterra

of drums full of water on site _____

Project Name: SullinsWell I.D.: MW-BsProject No.: 1262.2Date: 7/7/2006Project Location: 187 North L Street, Livermore CAWell Condition: Good and SecureSamples sent to: EntechWeather Conditions Sunny, 1 mph wind, 92 degrees

Time	Cumulative Volume Purged (gal)	Temp. C°	E.C. (µmhos/cm)	pH	O.R.P. (millivolts)	Dissolved Oxygen (mg/L)	Remarks
12:39	0	-	-	-	-141.2		Clear, odor, few sediments
13:00	24	-	-	-	-130.7		Clear, odor, few sediments
13:17	48	-	-	-	-110.9		Clear, odor, few sediments
13:41	72	-	-	-	-107.3		Clear, odor, few sediments
13:50						0.09	Collected Samples

Purge Method: ☒ Dedicated Waterra ☐ Centrifugal pump with dedicated tubing ☐ Other _____Pumping Rate: 1.16 gal/minCasing diameter: 6Sample Containers used: 4 # VOAs HCL preserved ____ non-preservedTotal depth: 44.561 # amber liters ____ preserved X non-preservedInitial DTW: 28.57

____ # polys ____ size ____ preserved ____ non-preserved

Water column height: 15.99

____ # polys ____ size ____ preserved ____ non-preserved

One casing volume: 23.67Notes: Sheen is visible; Ph meter is not working correctlyDTW at sampling: 28.58Sampled By: R. RodriguezSample Method: Waterra

of drums full of water on site _____

Project Name: SullinsWell I.D.: W-1sProject No.: 1262.2Date: 7/7/2006Project Location: 187 North L Street, Livermore CAWell Condition: Good and SecureSamples sent to: EntechWeather Conditions Sunny, 3 mph wind, 92 degrees

Time	Cumulative Volume Purged (gal)	Temp. C°	E.C. (µmhos/cm)	pH	O.R.P. (millivolts)	Dissolved Oxygen (mg/L)	Remarks
14:00	0	-	-	-	-119.1		Black, strong odor, no sediments
14:22	24	-	-	-	-135.2		Black, strong odor, no sediments
14:41	48	-	-	-	-133.3		Light grey, light odor, no sediments
15:14	72	-	-	-	-128.5		Light grey, light odor, no sediments
15:20						0.13	Collected Samples

Purge Method: ☒ Dedicated Waterra ☐ Centrifugal pump with dedicated tubing ☐ Other _____Pumping Rate: 0.97 gal/minCasing diameter: 6Sample Containers used: 4 # VOAs HCL preserved ____ non-preservedTotal depth: 44.611 # amber liters ____ preserved X non-preservedInitial DTW: 28.69

____ # polys ____ size ____ preserved ____ non-preserved

Water column height: 15.92

____ # polys ____ size ____ preserved ____ non-preserved

One casing volume: 23.56Notes: PH Meter is not working properly.DTW at sampling: 28.69Sampled By: R. RodriguezSample Method: Waterra# of drums full of water on site 5

Project Name: SullinsWell I.D.: MW-EsProject No.: 1262.2Date: 7/7/2006Project Location: 187 North L Street, Livermore CAWell Condition: Good and SecureSamples sent to: EntechWeather Conditions Sunny, 2 mph wind, 90 degrees

Time	Cumulative Volume Purged (gal)	Temp. C°	E.C. (µmhos/cm)	pH	O.R.P. (millivolts)	Dissolved Oxygen (mg/L)	Remarks
10:19	0	21.4	401	7.22	-8.7		Grey cloudy, light odor, sediments
10:22	2.5	21.0	357	7.11	8.3		Grey cloudy, light odor, sediments
10:25	5.0	20.5	346	7.08	17.1		Grey cloudy, light odor, sediments
10:28	7.5	20.9	339	7.05	32.9		Grey cloudy, light odor, sediments
10:40						0.06	Collected Samples

Purge Method: ☐ Dedicated Waterra ☐ Centrifugal pump with dedicated tubing ☐ Other _____Pumping Rate: 0.39 gal/minCasing diameter: 2Sample Containers used: 4 # VOAs HCL preserved ___ non-preservedTotal depth: 44.161 # amber liters ___ preserved X non-preservedInitial DTW: 30.45

___ # polys ___ size ___ preserved ___ non-preserved

Water column height: 13.71

___ # polys ___ size ___ preserved ___ non-preserved

One casing volume: 2.19

Notes: _____

DTW at sampling: 30.47Sampled By: R. RodriguezSample Method: Waterra

of drums full of water on site _____