

July 9, 1999

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Eva Chu

Subject: Report of Soil and Groundwater Investigation
Dublin Toyota UST Site
6450 Dublin Court, Dublin, California
Alameda County LOP Site ID No. 699
GA Project No. 147-01-01

99 JUL 19 PM 3:33
ENVIRONMENTAL
PROTECTION

Ladies and Gentlemen:

Gribi Associates is pleased to submit this groundwater monitoring report on behalf of Dublin Toyota for the underground storage tank (UST) site located at 6450 Dublin Court in Dublin, California (see Figure 1 and Figure 2). This letter report documents the monitoring of two groundwater monitoring wells at the site.

DESCRIPTION OF SAMPLING ACTIVITIES

On April 6, 1999, Mr. Jim Gribi conducted groundwater monitoring activities for two site wells (MW-1 and MW-2). Groundwater monitoring was conducted in accordance with California LUFT Field Manual guidelines as follows:

- After unlocking and opening both of the monitoring wells, the water levels were measured to the nearest 0.01 foot with an electronic probe.
- Using a disposable PVC bailer, a single bail of groundwater was taken from each well to check for the presence or absence of floating free product.
- The wells were purged of approximately three well volumes. During purging, temperature, pH, conductivity, and turbidity of the well water were periodically monitored and recorded until they stabilized. All purged water was stored onsite in sealed 55-gallon metal drums. Groundwater sampling data sheets for each well are contained in Appendix A.

- After purging the required volume of water, groundwater was poured directly from the bailer into two half-liter amber jars and four 40-ml VOC vials. Each container was then tightly sealed with teflon-lined septa, making sure that no air bubbles were present in the containers. Each container was then labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody.

RESULTS OF GROUNDWATER MONITORING

Hydrologic Conditions

Groundwater was encountered in the two wells at a depth of about four feet below surface grade. Purged groundwater from MW-1 and MW-2 exhibited no hydrocarbon odors or sheens.

Laboratory Analytical Results

Groundwater samples from the two wells were analyzed for the following parameters with standard method turn around time on results.

- USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
- USEPA 8020/602 Methyl-t-butyl Ether (MTBE)
- USEPA 8015M Total Petroleum Hydrocarbons as Diesel (TPH-D/MO)

Groundwater analytical results are summarized in Table 1. The laboratory data report, which includes laboratory chromatograms for all analyses, is contained in Appendix B.

Table 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 Dublin Toyota UST Site

Sample ID	Sample Date	Sample Depth	Concentration (ppm)							
			TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE
MW-1	12/15/99	5.74	<0.050	0.110	46	<0.10	<0.10	<0.10	<0.10	62
	4/6/99	5.09	<0.050	<0.100	45	<0.050	<0.050	<0.050	<0.050	86 ²
MW-2	12/15/99	4.30	<0.050	0.570	<0.050	<0.00050	0.00090	<0.00050	0.00150	<0.0050
	4/6/99	3.42	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050

TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene

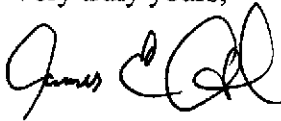
X = Xylenes
 MTBE = Methyl-t-Butyl Ether
 <0.050 = Not detected above the expressed value.
 1 = Groundwater depths measured from top of casing.
 2 = MTBE result was confirmed using USEPA Method 8260B.

CONCLUSIONS

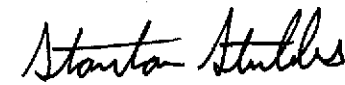
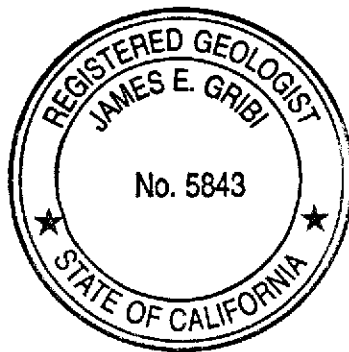
Laboratory analytical results from this sampling event are similar to December 1998 monitoring results, except that concentrations of TPH-MO decreased to nondetectable levels during this sampling event. Elevated levels of MTBE were still present in groundwater from MW-1; however BTEX concentrations were still not detected in MW-1.

We appreciate this opportunity to provide this report for your review. Please contact us if there are questions or if additional information is required.

Very truly yours,



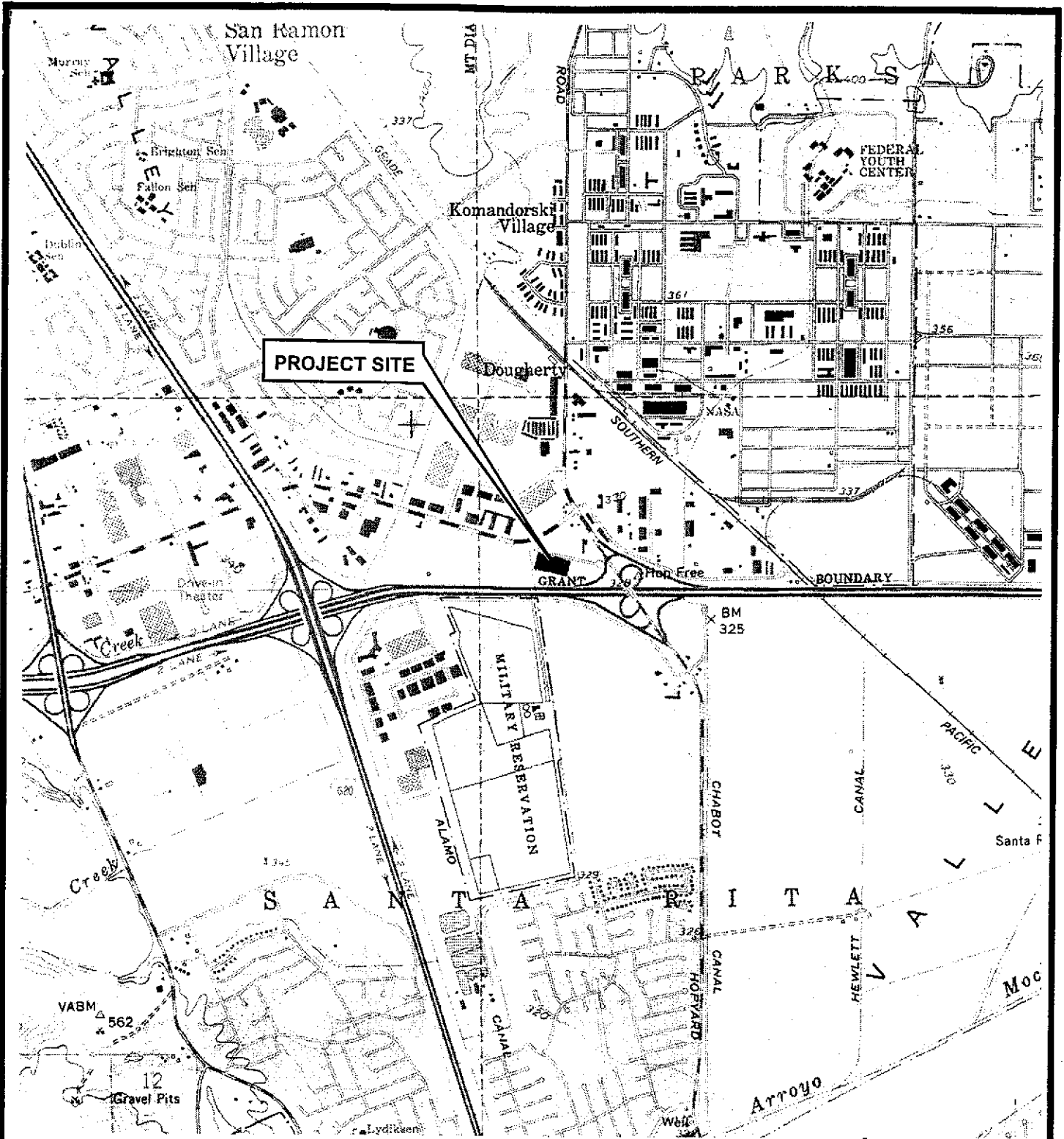
James E. Gribi
Registered Geologist
California No. 5843



Stanton Stubbs
Environmental Scientist

JEG:ct
Enclosure

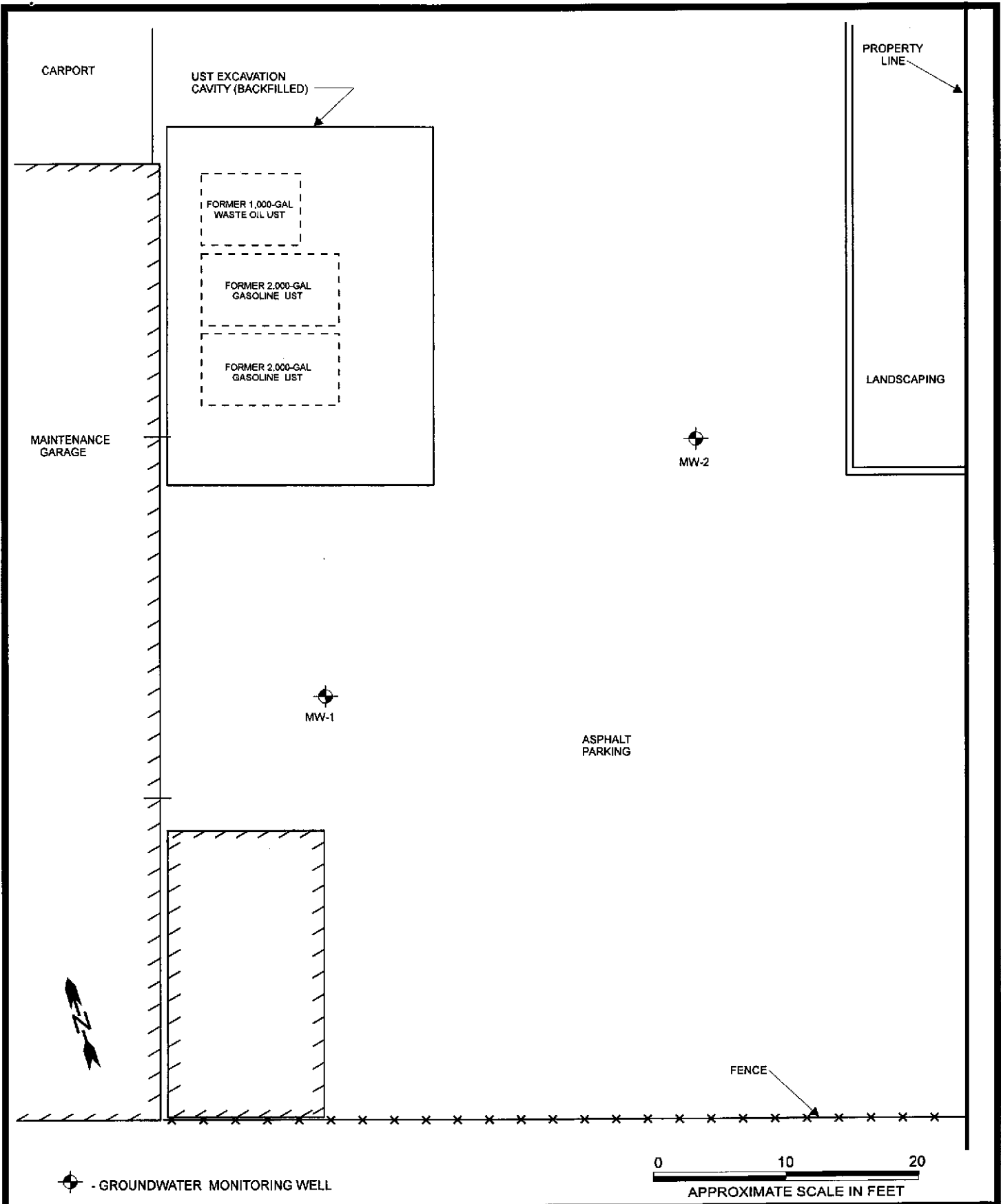
c Mr. Scott Anderson, Dublin Toyota



TOPOGRAPHY FROM USGS DUBLIN, CALIFORNIA
7.5-MINUTE QUADRANGLE MAPS, (TOPOI 1997).



DESIGNED BY:	CHECKED BY:	SITE VICINITY MAP	DATE: 10/01/98	FIGURE: 1
DRAWN BY: JG	SCALE: 1:24,000		GRIBI Associates	
PROJECT NO: 147-01-01				
		DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA		



⊕ - GROUNDWATER MONITORING WELL

0 10 20
APPROXIMATE SCALE IN FEET

DESIGNED BY:	CHECKED BY:	SITE PLAN DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	DATE: 01/18/99	FIGURE: 2
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 147-01-01				

APPENDIX A

GROUNDWATER MONITORING FIELD DATA RECORDS

GROUNDWATER SAMPLING RECORD

GRIBI Associates

Well No. <u>MW-1</u>	Well Loc.
Project Name	Project No.
Date <u>4/6/99</u> Time	TOC Elevation GW Elevation
Depth to Water <u>5.09</u>	Well Depth Well Diameter
Purge Water, 2" Wtr Column X 0.163 X 3 =	Purge Water, 4" Wtr Column X 0.653 X 3 =
Purge/Sample Method	Lab Analyses
Weather Conditions	Laboratory

Time	Volume Purged	Temp.	Cond.	pH	Visual
	1	57.4	1.41	6.63	5' r-sl mky grey
	2	60.0	1.45	6.59	1.0 HC 0/5
	4	61.8	1.63	6.56	mky Grey - No 0/5
	6	61.1	1.73	6.52	
13:15	9	61.8	1.82	6.52	

Remarks

GROUNDWATER SAMPLING RECORD

GRIBI Associates

Well No. <i>MW-2</i>	Well Loc.		
Project Name	Project No.		
Date	Time	TOC Elevation	GW Elevation
Depth to Water <i>3.42</i>	Well Depth	Well Diameter	
Purge Water, 2": Wtr Column X 0.163 X 3 =	Purge Water, 4": Wtr Column X 0.653 X 3 =		
Purge/Sample Method	Lab Analyses		
Weather Conditions	Laboratory		

Time	Volume Purged	Temp.	Cond.	pH	Visual
<i>12:00</i>	<i>0</i>	<i>66.1</i>	<i>1.43</i>	<i>6.98</i>	<i>mky grey, No</i>
	<i>2</i>	<i>63.8</i>	<i>1.41</i>	<i>6.95</i>	<i>o/s</i>
	<i>4</i>	<i>62.4</i>	<i>1.39</i>	<i>6.88</i>	
	<i>6</i>	<i>58.5</i>	<i>1.32</i>	<i>6.81</i>	<i>sl. mky grey No</i>
<i>12:30</i>	<i>9</i>	<i>60.7</i>	<i>1.33</i>	<i>6.77</i>	<i>o/s</i>

Remarks

APPENDIX B

**LABORATORY DATA REPORTS AND
CHAIN-OF-CUSTODY RECORDS**



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19860

April 14, 1999

Jim Gribi
Gribi Associates
884 Vintage
Suisun, CA 94585

Subject : 2 Water samples
Project Name : Dublin Toyota
Project Number : 147-01-01

Dear Mr. Gribi,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of Arizona (AZ0583) and the State of California (# 2330). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19860

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Dublin Toyota (Proj. # 147-01-01)


Sampled : 04/06/99

Received : 04/07/99

Matrix : Water

SAMPLE	Date Analyzed	(MRL) ug/L	Measured Value ug/L
MW-1	04/12/99	(2500)	88000
MW-2	04/09/99	(5.0)	<5.0

Approved By:



Tom Kwoka
Lab Director



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19860

19860-01

Sample: MW-1

From : Dublin Toyota (Proj. # 147-01-01)

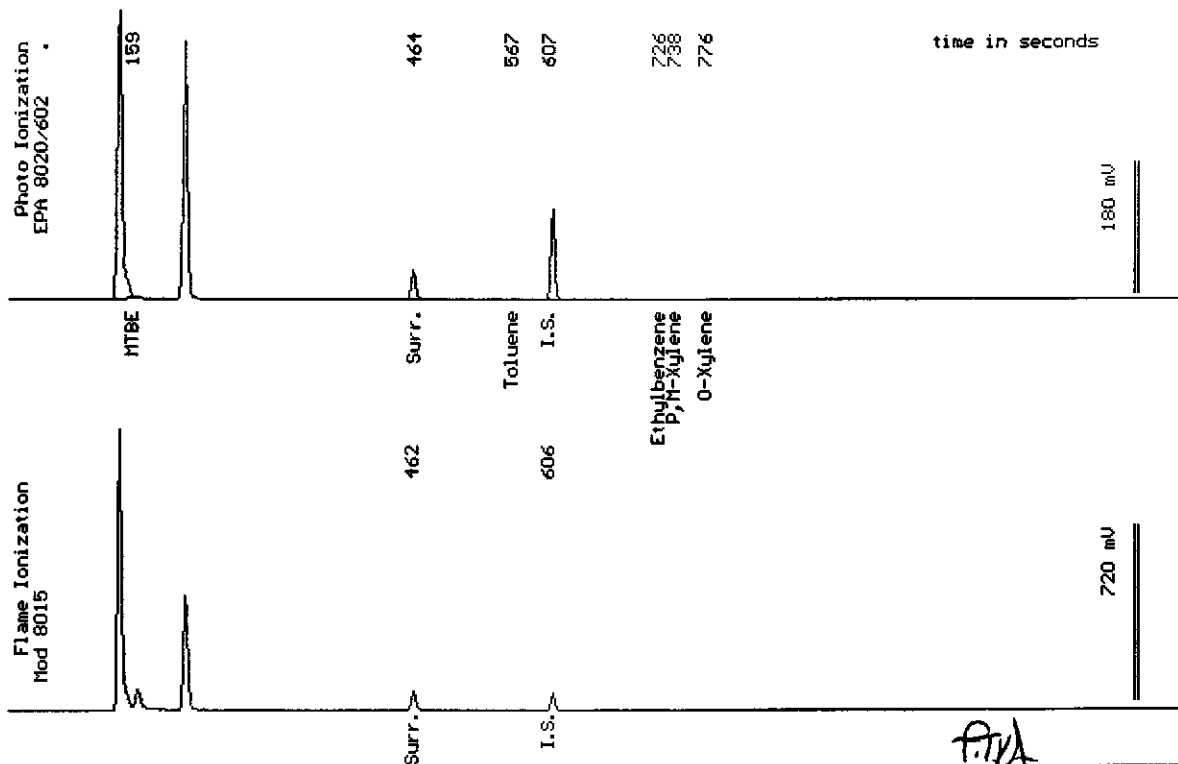
Sampled : 04/06/99

Dilution : 1:100

Run Log : 4183K

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(50)	<50
Toluene	(50)	<50
Ethylbenzene	(50)	<50
Total Xylenes	(50)	<50
TPH as Gasoline	(5000)	45000
Surrogate Recovery		93 %



Date Analyzed: 04-09-99
Column : 0.53mm ID X 60m Restek Rtx-1701

Stewart Podolsky
Senior Chemist



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19860

19860-02

Sample: MW-2

From : Dublin Toyota (Proj. # 147-01-01)

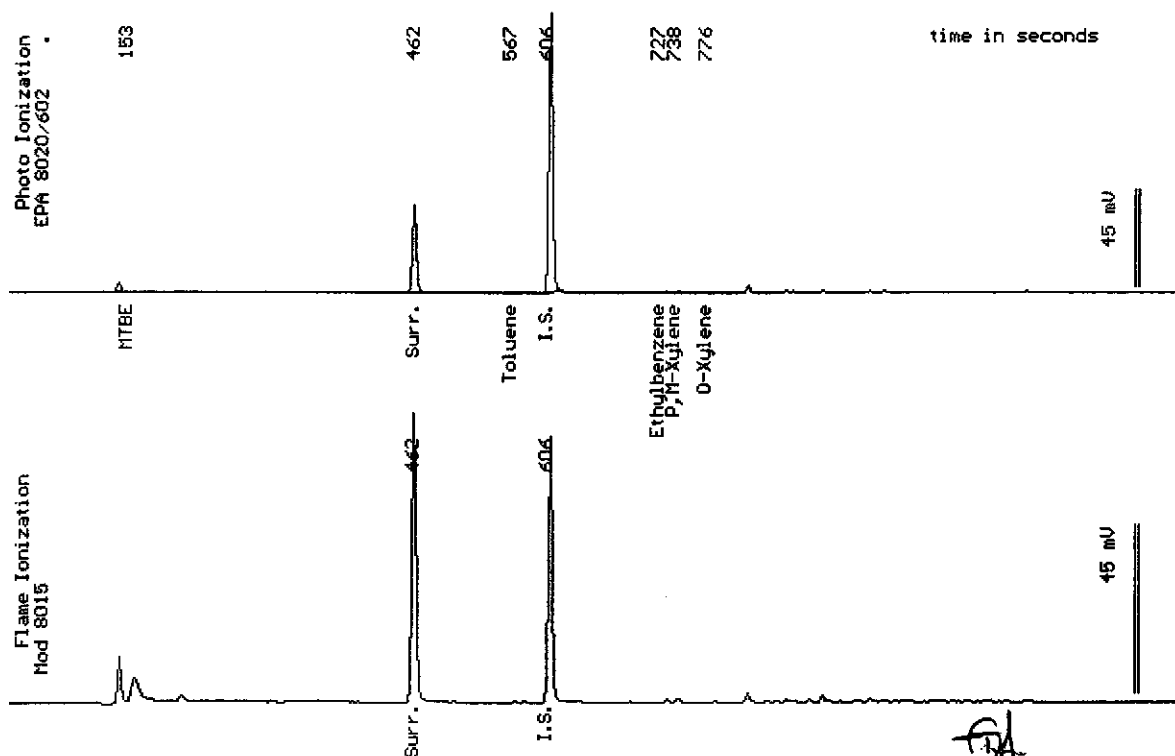
Sampled : 04/06/99

Dilution : 1:1

Matrix : Water

Run Log : 4183K

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		93 %



Date Analyzed: 04-09-99
Column : 0.53mm ID X 60m Restek Rtx-1701

Stewart Podolsky
Senior Chemist

Acculabs Inc.

April 14, 1999
Sample Log 19860


QC Report for EPA 602 & Modified EPA 8015
Run Log : 4183K
From : Dublin Toyota (Proj. # 147-01-01)
Sample(s) Received : 04/07/99

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	88	87	1
Ethylbenzene	100	99	1
TPH as Gasoline	121	112	8

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	90
Ethylbenzene	96
Gasoline	114

Parameter	Method Blank
Benzene	<0.50 ug/L
Toluene	<0.50 ug/L
Ethylbenzene	<0.50 ug/L
Total Xylenes	<0.50 ug/L
TPH as Gasoline	<50 ug/L


Tom Kwok
Lab Director



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19860
19860-01

Sample: MW-1

From : Dublin Toyota (Proj. # 147-01-01)

Sampled : 04/06/99

Extracted: 04/12/99

Dilution : 1:1

Matrix : Water

QC Batch : DW990402

Run Log : 7435B

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 04-14-99 Time: 12:27:34
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19860

19860-02

Sample: MW-2

From : Dublin Toyota (Proj. # 147-01-01)

Sampled : 04/06/99

Extracted: 04/12/99

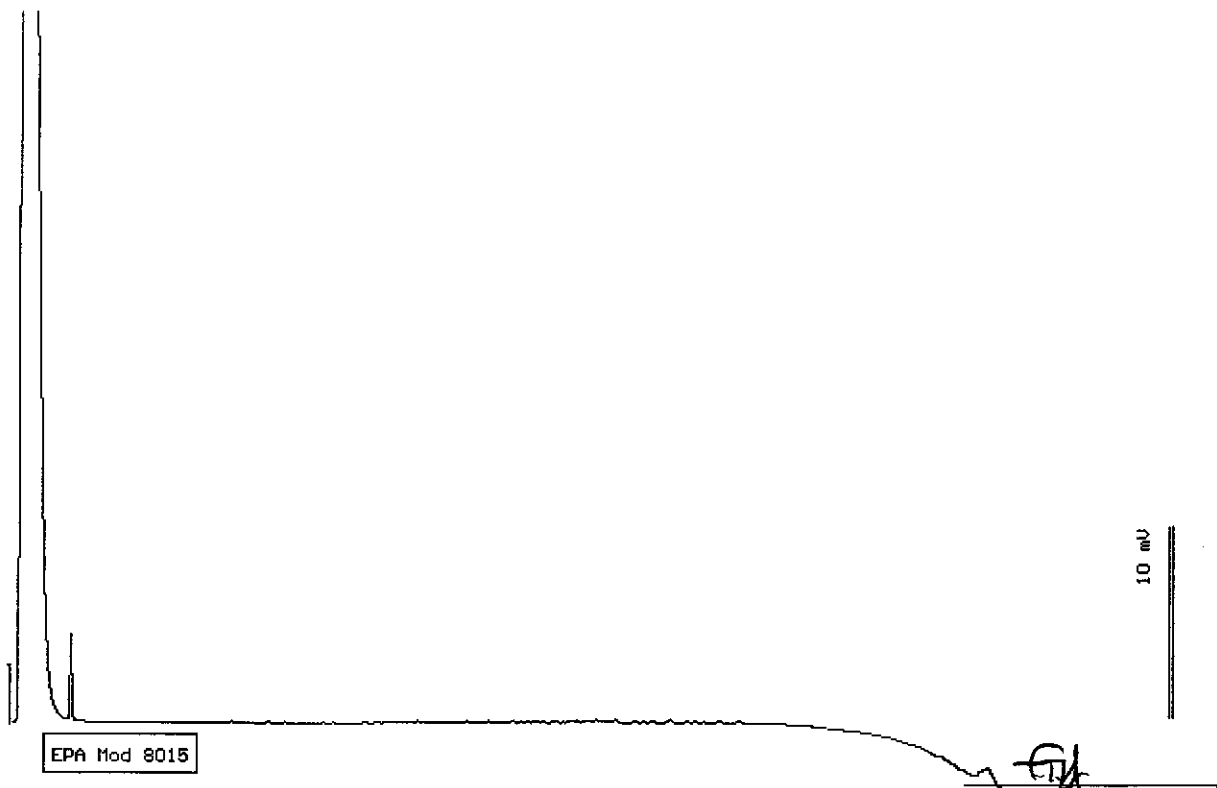
Dilution : 1:1

Matrix : Water

QC Batch : DW990402

Run Log : 7435B

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 04-14-99 Time: 13:01:55
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Stewart Podolsky
Senior Chemist



Acculabs Inc.

Davis

1046 Olive Drive, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

MTBE By EPA 8260B

Sample Log 19860
April 13, 1999

Sample Name : MW-1

Project Name : Dublin Toyota

Project Number : 147-01-01

Sample Date : 04/06/99

Date Analyzed : 04/12/99

Date Received : 04/07/99

Dilution : 1:500

Sample Matrix : Water

Lab Number : 19860-01


<u>Parameter</u>	<u>MRL</u>	<u>Measured Conc.</u>	<u>Units</u>
Methyl-tert-butyl ether	2500	86000	ug/L
Dibromofluoromethane (surr)		98	% Recovery

MRL = Method Reporting Limit Conc. = Concentration

B = Analyte was detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka

Acculabs Inc.

[] 1725 W. 17th. St. Tempe AZ 85281
 [] 4455 S. Park Ave. Tucson AZ 85714
 [] 2020 W. Lone Cactus Dr. Phoenix AZ 85027
 [] 2029 N. 4th. St. Flagstaff AZ 86004
 [] 1046 Olive Drive Davis CA 95616
 [] 75 Suttle St. Durango CO 81301
 [] 4663 Table Mountain Dr. Golden CO 80403
 [] 992 Spice Islands Dr. Sparks NV 89431

602-967-1310 Fax 967-1019
 520-807-3801 Fax 807-3803
 602-780-4800 Fax 780-7695
 520-774-7643 Fax 774-7648
 530-757-0920 Fax 753-6091
 970-247-4220 Fax 247-4227
 303-277-9514 Fax 277-9512
 702-355-0202 Fax 355-0817

Lab Number **19860**
 Report
 Due Date:

Client **GRIBI ASSOCIATES** PUBLIC WATER SUPPLY INFORMATION
 Address **1350 Hayes St Ste C-14** System Report to: State Y N
 City, State & Zip **BENICIA CA 94510** PWS No. Report to: EPA Y N
 Contact **J Gribi** POE No. DWR No.
 Phone Project Name **DUBLIN TOYOTA** Collection Point
 Fax Project Number **147-01-01** Collector's Name
 P.O. Number Fax Results **Y** N Page **1** of **1** Location (City)

SAMPLE TYPE CODES			S a m p l e T y p e	C o n t a i n e r s	Analyses Requested	Location (City)									
DW = drinking water	TB = travel blank	Compliance Monitoring Y N													
WW = waste water	SD = solid				TPH-G/BTEX/MTBE TPH-D/MD MTBE CEASTM	(Diagonal lines indicating no data for this location)									
MW = monitoring well	SO = soil														
HW = hazardous waste	SL = sludge														

TURNAROUND TIME REQUESTED															
Standard	Lab Manager Approval														
RUSH															
Special															
CLIENT'S SAMPLE ID/LOCATION	Date	Time													Spl. No.
MW-1	4/6	13:15	W	S	X	X	X								01
MW-2	4/6	12:30	W	S	X	X									02

Instructions/Comments/Special Requirements:

SAMPLE RECEIPT			Date	Time	Samples Relinquished By	Samples Received By
Received Cold	Y	N	4/7/99	11:10	<i>[Signature]</i>	<i>[Signature]</i>
Custody Seals	Y	N	4/7/99	13:00	<i>[Signature]</i>	<i>[Signature]</i>
Seals Intact	Y	N				
No. of Containers						

Acculabs' terms are: Net 40 (Payment must be received by the date shown on the Invoice or any discount is void)