

99 OCT 14 PM 4: 24

October 11, 1999

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

Attention: Eva Chu

Subject: Report of Quarterly Groundwater Monitoring Conducted On July 14, 1999,
And Workplan to Conduct Additional Investigative Activities
Dublin Toyota UST Site, 6450 Dublin Court, Dublin, California
Alameda County LOP Site ID No. 699
GA Project No. 147-01-01

Ladies and Gentlemen:

Gribi Associates is pleased to submit this groundwater monitoring report and workplan 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, and includes a workplan to conduct additional investigative activities at the site.

DESCRIPTION OF SAMPLING ACTIVITIES

On July 14, 1999, Mr. Stanton Stubbs of Gribi Associates 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 a teflon-lined septum, 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.

On Thursday, July 29, 1999, three drums of soil cuttings and one drum of rinse/purge water were transported to Altamont Landfill and Seaport Environmental, respectively, by IWM, Inc. for disposal. Copies of the disposal documents are contained in Appendix B.

RESULTS OF GROUNDWATER MONITORING

Hydrologic Conditions

Groundwater was encountered in the two wells at a depth of about five feet below surface grade. Purged groundwater from MW-1 exhibited a strong, sweet odor and no sheen. Purged groundwater from 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/Motor Oil (TPH-D/MO)

In addition, the MTBE result for MW-1 was confirmed using USEPA Method 8260B. Groundwater analytical results are summarized in Table 1. The laboratory data report, which includes laboratory chromatograms for all analyses, is contained in Appendix C.

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	86²
	7/14/99	6.18	<0.050	<0.100	2.8	<0.10	<0.10	<0.10	<0.10	65²
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
	7/14/99	4.76	<0.050	0.110	<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 previous monitoring results, with elevated levels of only MTBE still present in groundwater from MW-1, and no significant levels of other hydrocarbon constituents present in groundwater from MW-1 or MW-2.

WORKPLAN TO CONDUCT ADDITIONAL ACTIVITIES

Due to the elevated levels of MTBE in groundwater from MW-1, additional investigation will be required at the site. In order to provide additional MTBE characterization, this workplan proposes the drilling, installation and sampling of one additional groundwater monitoring well at the site.

Scope of Work

The proposed investigation will include the following workplan elements. All activities will be conducted in accordance with applicable State and Federal guidelines and statutes.

Prefield Activities

Prior to implementing this workplan, written approval will be obtained from the Alameda County Department of Environmental Health, and a well installation permit will be obtained from Alameda County Zone 7 Water Agency. In addition, the proposed well location will be marked with white paint, and Underground Services Alert (USA) will be notified at least 48 hours prior to drilling. Also, a private underground utility locator will clear the proposed well location. Prior to initiating drilling activities, a Site Safety Plan will be prepared, and a tailgate safety meeting will be conducted with all site workers.

Location of Monitoring Well

The proposed well location is shown on Figure 2. Based on the elevated MTBE level in groundwater from MW-1, it appears likely that groundwater flow direction in the vicinity of the former USTs is to the south. Thus, the proposed monitoring well will be sited approximately 50 feet further south from MW-1.

Drilling and Sampling of Monitoring Well

The well boring will be drilled to a total depth approximately 20 feet below grade (groundwater is expected to be encountered below seven feet in depth) using hollow stem auger equipment.

Soils from the well boring will be logged by a qualified scientist using sight and smell. Soil cuttings will be placed in sealed DOT-approved 55-gallon drums pending laboratory results.

Soil samples will be collected from the well boring at approximately five-foot intervals starting at five feet in depth. Undisturbed soils will be sampled in advance of the auger as follows: (1) A two-inch inside diameter California-style split spoon sampler will be driven into undisturbed soil ahead of the drill bit; (2) The sampler will be raised quickly to the surface and the brass liners exposed; (3) The brass liner containing the most undisturbed soil will be quickly sealed with aluminum foil and plastic end caps, labeled, and wrapped tightly with tape; and (4) The sealed soil sample will be placed immediately in a cooler with crushed ice for transport to the analytical laboratory under formal chain-of-custody. All sampling equipment will be thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water. Steam cleaning rinseate will be contained in sealed drums pending laboratory results.

Installation of Monitoring Well

The groundwater monitoring well will be constructed using two-inch diameter Schedule 40 threaded PVC casing according to the following specifications: (1) 0.020-inch slotted well casing will be placed from approximately 20 feet to five feet in depth (exact screen depths will be determined in the field based on occurrence of first groundwater); (2) Filter sand will be placed around the casing to a depth of approximately four feet below grade; (3) A one-foot bentonite seal will be placed above the filter sand to approximately three feet below grade; and (4) The remaining annulus will be grouted using a cement/sand slurry (bentonite less than 5 percent) to approximate grade. The top of the well will be enclosed in a traffic-rated locking box set in concrete slightly above grade. A well construction diagram is shown on Figure 3.

Well Development and Sampling

After allowing the cement seal to cure for at least 48 hours, the newly-installed monitoring well, along with the two existing wells, will be developed and sampled using a clean disposable PVC bailer. Well development will consist of purging the well of at least three well volumes before sampling. During well development, groundwater will be monitored periodically for presence of free-floating product and odor, pH, specific conductance, temperature and visible clarity. After these parameters have stabilized, groundwater will be sampled directly from the bailer in the following manner: (1) Three 40-ml glass VOA vials will be completely filled directly from the bailer with a minimum of agitation; (2) After making sure that no air bubbles are present, each container will be tightly sealed with a teflon-lined septum; and (3) Each container will be labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. All purged groundwater will be stored on site in sealed DOT-approved 55-gallon drums pending groundwater analytical results. All sampling equipment will be thoroughly cleaned and decontaminated between each sample collection by triple rinsing as described above.

Laboratory Analysis of Soil and Water Samples

One soil sample will be selected from the well boring for laboratory analysis based on obvious field evidence of hydrocarbons. In addition, one groundwater sample from the newly installed well and one groundwater sample from each of the two existing monitoring wells will be analyzed. All soil and groundwater samples will be analyzed for the following parameters.

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8260 Methyl-t-butyl Ether (MTBE)

All analyses will be conducted by a California-certified analytical laboratory with standard turnaround on results.

Preparation of Summary Report

A report summarizing soil and groundwater investigative activities and results will be prepared for submittal to the Alameda County Department of Environmental Health. This report will describe all investigative methods and will include tabulated laboratory results, as well as maps depicting soil and groundwater hydrocarbon plumes, if applicable.

Conduct Quarterly Groundwater Monitoring

The three project site groundwater monitoring wells will be monitored quarterly for three additional quarters, to make one year of quarterly monitoring. Each groundwater monitoring event will include: (1) Purging and sampling each of the wells; (2) Analyzing three groundwater samples for TPH-G/BTEX/ MTBE; and (3) Preparing a letter report for submittal to Alameda County Department of Environmental Health.

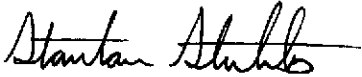
PROJECT SCHEDULE

Subject to your approval, Dublin Toyota is prepared to begin the proposed workplan activities immediately. Based on our understanding of the project and subject to rig availability, we expect to complete drilling and well installation activities and issue a summary report within six to eight weeks following workplan approval.

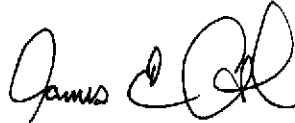
Alameda County Department of
Environmental Health
October 11, 1999
Page 6

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,



Stanton Stubbs
Environmental Scientist

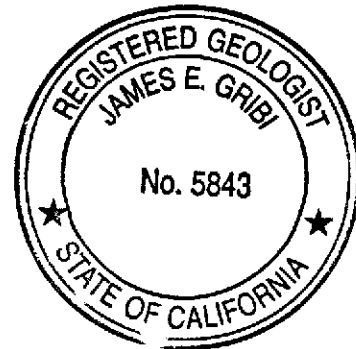


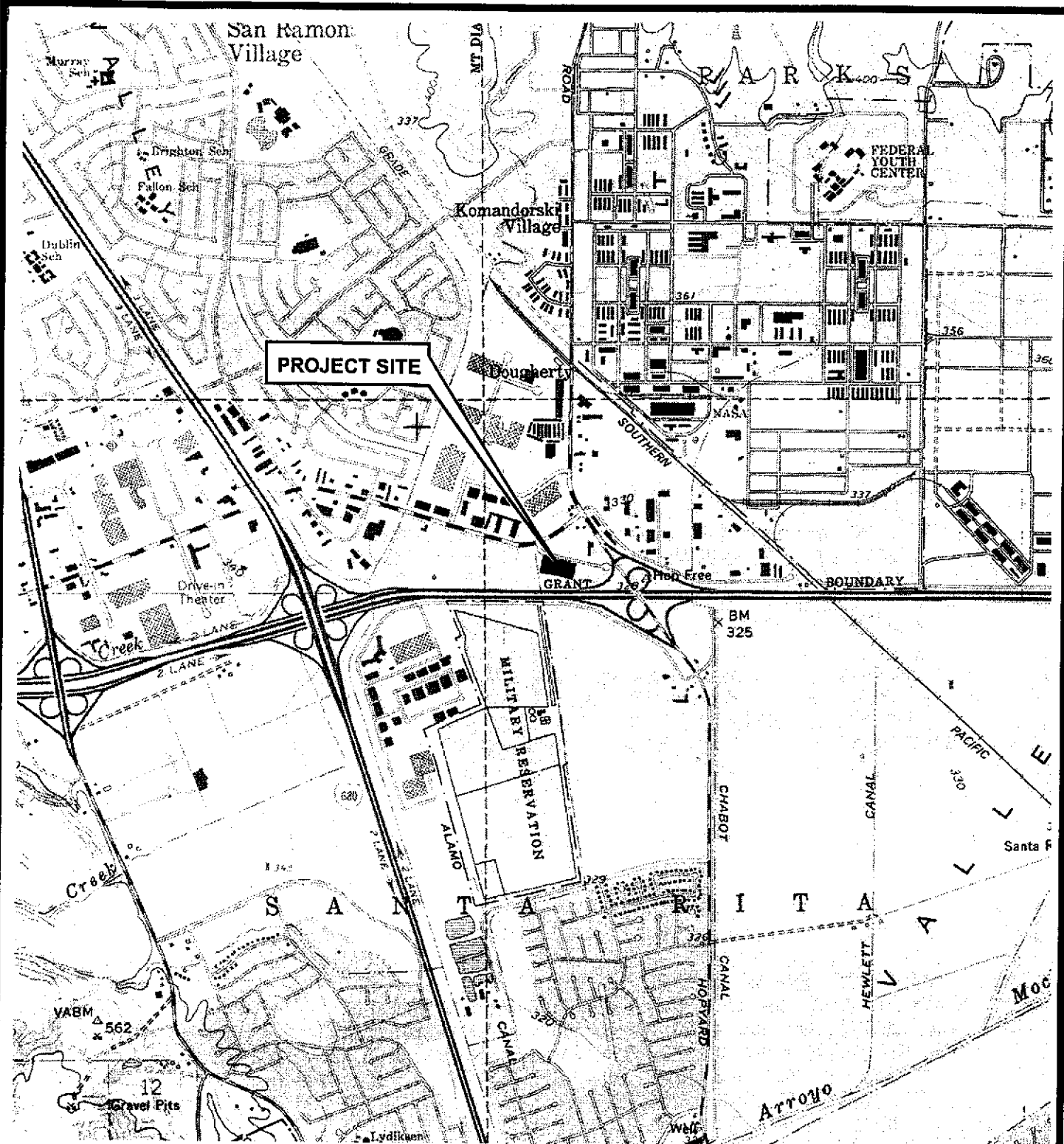
James E. Gribi
Registered Geologist
California No. 5843

SS/JEG:ct
Enclosure

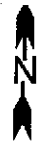
File: C:\MyFiles\Reports\dutoy-qm-3WP2.wpd

c Mr. Scott Anderson, Dublin Toyota

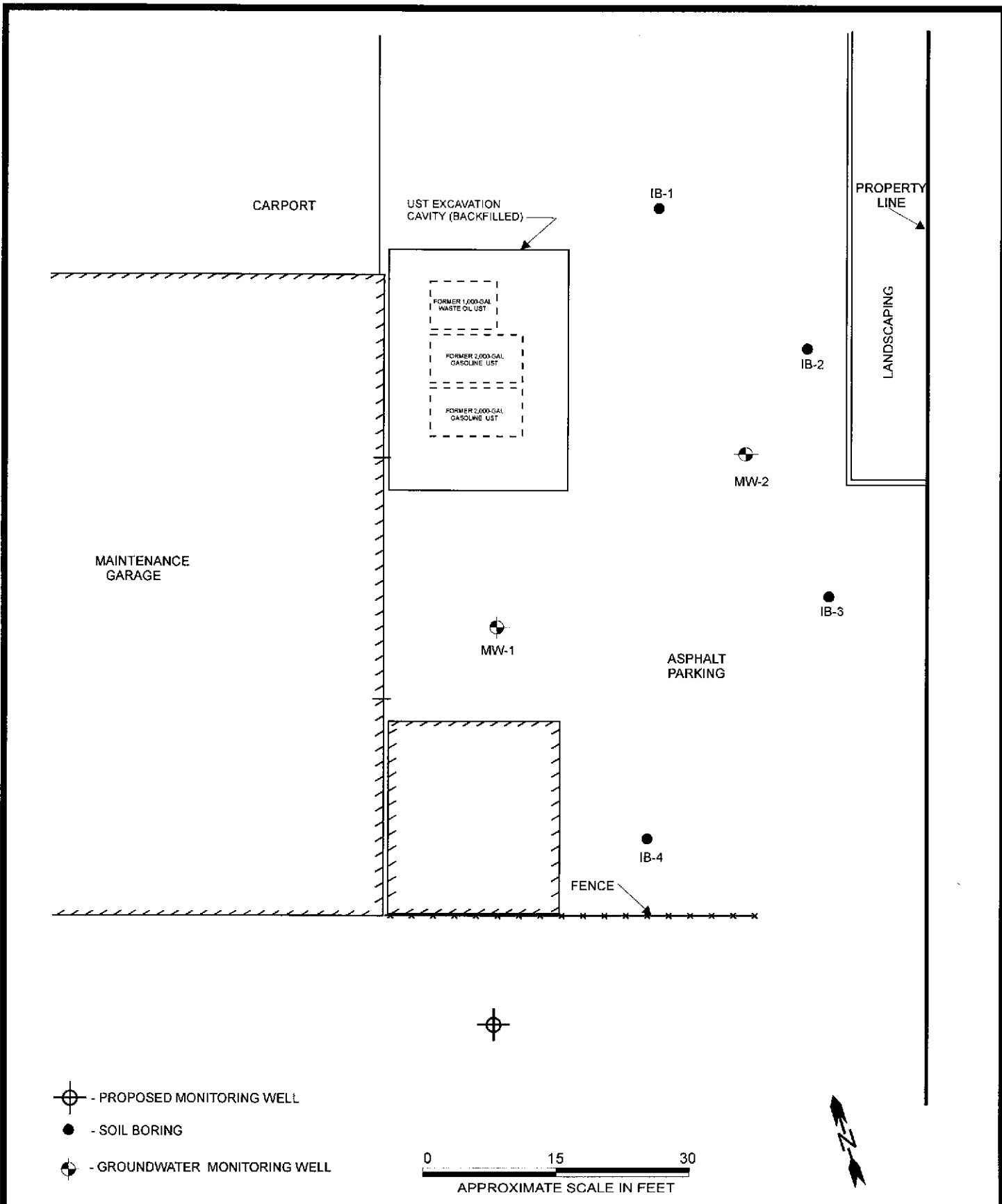




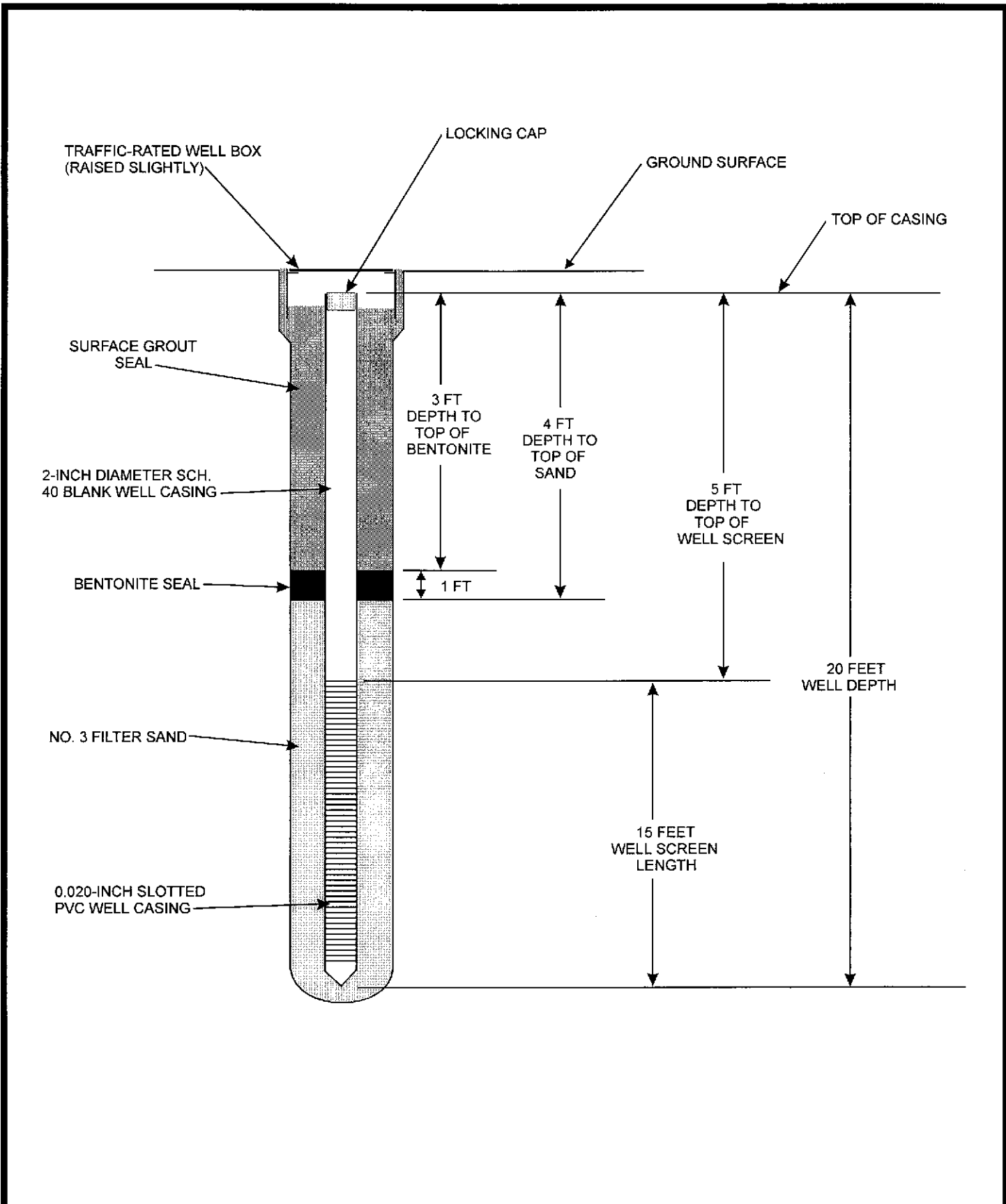
TOPOGRAPHY FROM USGS DUBLIN, CALIFORNIA
7.5-MINUTE QUADRANGLE MAPS, (TOPO1 1997).



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		



DESIGNED BY:	CHECKED BY:	SITE PLAN	DATE: 10/11/99	FIGURE: 2
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 147-01-01		DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA		



DESIGNED BY:	CHECKED BY:	WELL CONSTRUCTION DIAGRAM	DATE: 10/11/99	FIGURE: 3
DRAWN BY: JG	SCALE: NTS		GRIBI Associates	
PROJECT NO: 147-01-01		DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA		

APPENDIX A

GROUNDWATER MONITORING FIELD DATA RECORDS

GROUNDWATER SAMPLING RECORD		GRIBI Associates	
Well No. <u>MW-1</u>	Well Loc.		
Project Name <u>Dublin Toyota</u>	Project No.		
Date <u>7/14</u> Time	TOC Elevation	GW Elevation	
Depth to Water <u>6.18</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
	0	71.9	1.52	4.94	Clear, SL ODOR
	2	71.0	1.50	5.01	Milky Gray, ODOR
	4	71.0	1.58	5.05	" "
	6	70.9	1.61	5.03	" "
	8	70.0	1.67	5.00	" "

Remarks

Slow Recharge, Purged w/ Pump, sampled w/ Bailor.

GROUNDWATER SAMPLING RECORD		GRIBI Associates	
Well No. MW-2		Well Loc.	
Project Name Dublin Toyota		Project No.	
Date 7/14	Time	TOC Elevation	GW Elevation
Depth to Water 4.76		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
	0	69.8	1.53	6.34	Clear, No HC O/S
	2	68.3	1.27	6.79	Milky Gray, No HC O/S
	4	67.7	1.22	6.57	" "
	6	69.2	1.25	6.57	" "
	8	68.6	1.27	6.31	" "

Remarks

Purged w/ Pump and sampled w/ Pump

APPENDIX B

DISPOSAL DOCUMENTS FOR DRUMMED WASTE

Approval No.

SP-9-8-196

Ticket No.

SP082699-01

IWM, INC.
NON-HAZARDOUS WATER TRANSPORT
CERTIFICATE OF DISPOSAL

GENERATOR INFORMATION

CUSTOMER INFORMATION

Name: DUBLIN TOYOTA
Address: 6450 Dublin Ct.
City, State, Zip: Dublin, CA

Name: IWM
Address: 950 AMES
City, State, Zip: MILPITAS, CA 95035
PO#: _____

Description of Water: MONITORING WELL PURGE WATER

NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. GENERATOR CERTIFIES THAT THE BELOW NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4(B)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

SITE INFORMATION

IWM Job #	Generator	Site Address	# of Drum	Gallons
90346-DW		6450 Dublin Ct., Dublin, CA	1	
Estimated Total			1	

TRANSPORTER INFORMATION

Name: IWM, Inc.
Address: 950 Ames Avenue
Milpitas, CA 95035
Phone: 408-942-8955

Truck ID #: 102-103

Driver Name: Bill Penn

DISPOSAL FACILITY INFORMATION

Name: Seaport Environmental
Address: 675 Seaport Blvd
Redwood City, CA 94063
Phone: 650-364-1024

Bill Penn 7/29/95
Signature Date

IWM CERTIFIES THAT THIS NON-HAZARDOUS WASTE WATER WILL BE TREATED AND DISPOSED AT SEAPORT ENVIRONMENTAL IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

Tom Delon 7/29/95
Printed Name & Signature Date

DOC {TRANPRT.FRM}

APPENDIX C

**LABORATORY DATA REPORT AND
CHAIN-OF-CUSTODY RECORD**



Acculabs Inc.

Davis

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

Sample Log 20325

July 30, 1999

Jim Gribi
Gribi Associates
1350 Hayes Street, #C-14
Benicia, CA 94510

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

July 22, 1999
Sample Log 20325

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

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


Sampled : 07/14/99

Received : 07/15/99

Matrix : Water

SAMPLE	Date Analyzed	(MRL) ug/L	Measured Value ug/L
MW-1	07/22/99	(2500)	100000
MW-2	07/21/99	(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 20325

20325-01

Sample: **MW-1**

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

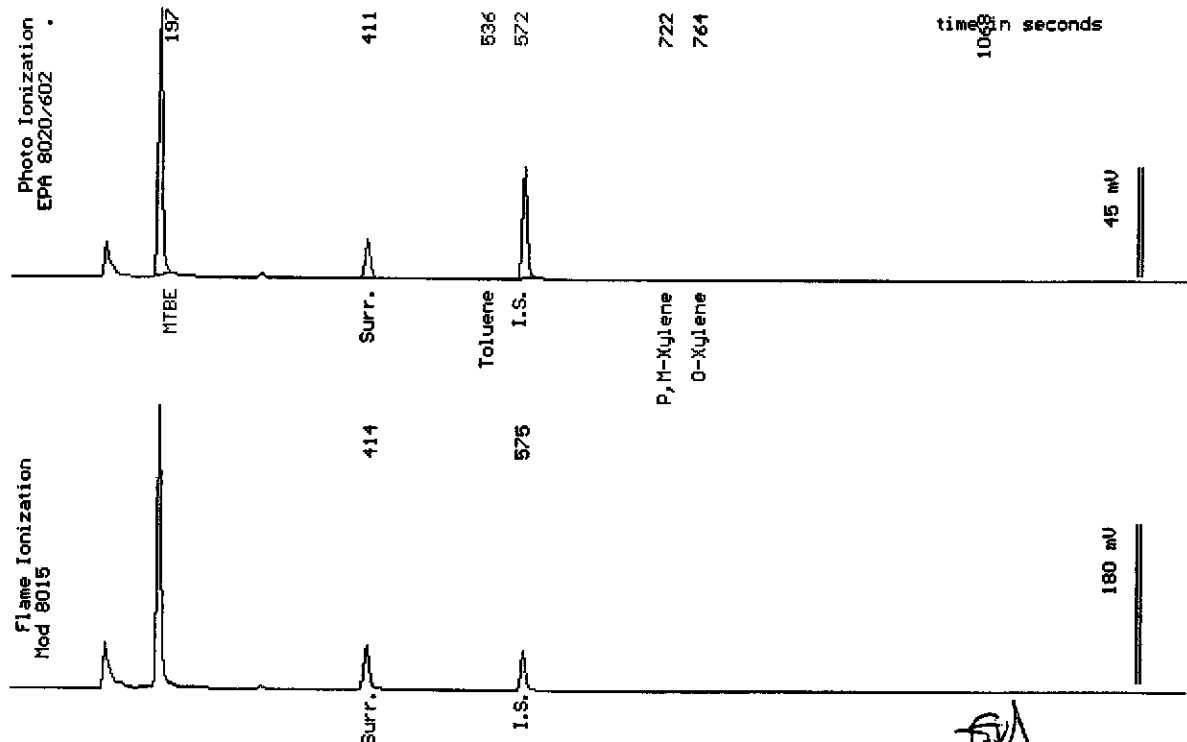
Sampled : 07/14/99

Dilution : 1:20

Run Log : 4186M

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(10)	<10
Toluene	(10)	<10
Ethylbenzene	(10)	<10
Total Xylenes	(10)	<10
TPH as Gasoline	(1000)	2800
Surrogate Recovery		113 %



Date Analyzed: 07-20-99
Column : 0.53mm ID X 60m Restek Rtx-1701

Stewart Rodolsky
Senior Chemist



Acculabs Inc.

Davis

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

Sample Log 20325

20325-02

Sample: MW-2

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

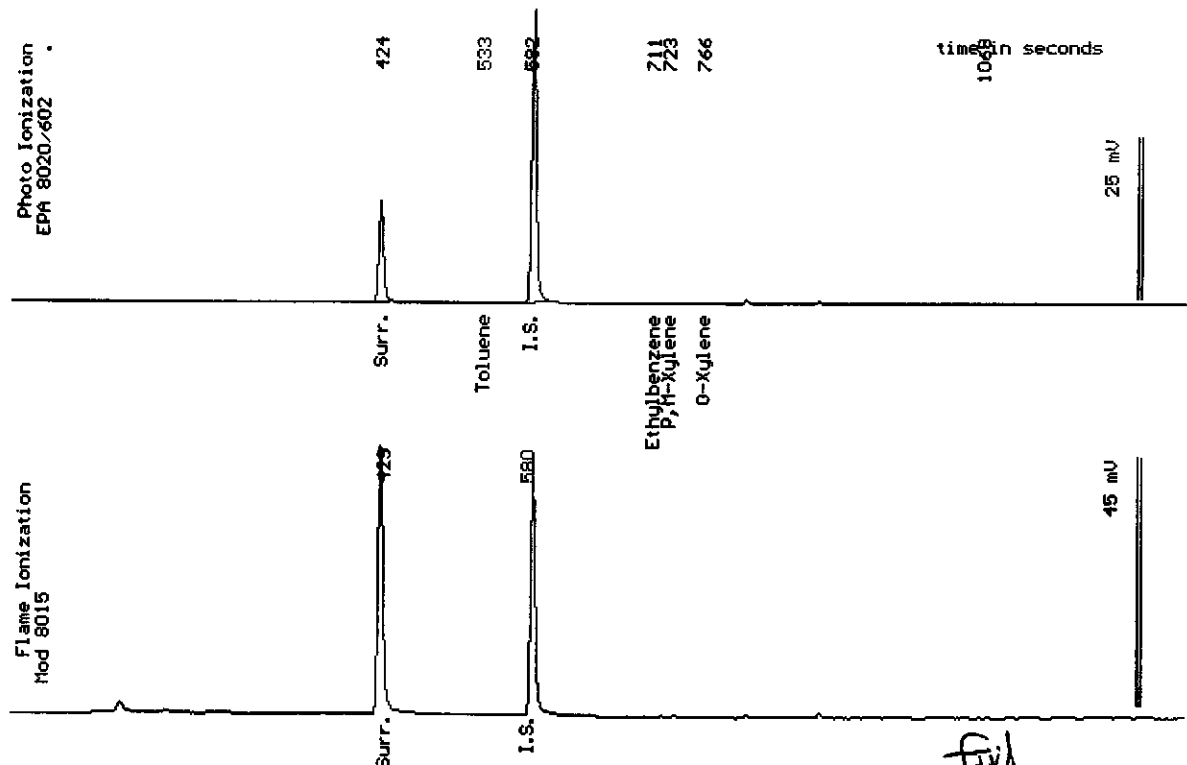
Sampled : 07/14/99

Dilution : 1:1

Matrix : Water

Run Log : 4186N

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		114 %



Date Analyzed: 07-21-99
Column : 0.53mm ID X 60m Restek Rtx-1701

Stewart Rodolsky
Senior Chemist

Acculabs Inc.

July 21, 1999
Sample Log 20325


QC Report for EPA 602 & Modified EPA 8015
Run Log : 4186L
From : Dublin Toyota (Proj. # 147-01-01)
Sample(s) Received : 07/15/99

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	122	115	6
Ethylbenzene	115	114	1
TPH as Gasoline	115	114	1

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	112
Ethylbenzene	114
Gasoline	104

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 Kwoka
Lab Director

Acculabs Inc.

July 22, 1999
Sample Log 20325

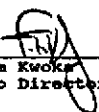
QC Report for EPA 602 & Modified EPA 8015
Run Log : 2182M
From : Dublin Toyota (Proj. # 147-01-01)
Sample(s) Received : 07/15/99

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	93	94	1
Ethylbenzene	95	95	0
TPH as Gasoline	116	118	2

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	101
Ethylbenzene	101
Gasoline	117

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 20325

20325-01

Sample: **MW-1**

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

Sampled : 07/14/99

Extracted: 07/28/99

Dilution : 1:1

Matrix : Water

QC Batch : DW990704

Run Log : 7446D

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



Date: 07-29-99 Time: 19:28:03
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 20325

20325-02

Sample: **MW-2**

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

Sampled : 07/14/99

Extracted: 07/28/99

Dilution : 1:1

Matrix : Water

QC Batch : DW990704

Run Log : 7446D

Parameter	(MRL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	110



Date: 07-29-99 Time: 20:01:24
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Bodolsky
Stewart Bodolsky
Senior Chemist

Acculabs Inc.

July 29, 1999

QC Report
TPH Diesel by 8015 Mod

QC Batch DW990704

Matrix: Water

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
TPH as Diesel	Not enough sample for spiking. See duplicate LCS Data.		

Laboratory Control Spike

Parameter	Laboratory Control Spike (%Rec)	Laboratory Control Spike Dup. (%Rec)	RPD %
TPH as Diesel	93	78	17

Method Blank

Parameter	MDL(ug/L)	Measured Value(ug/L)
TPH as Diesel	(50)	<50



Tom Kwoka
Lab Director



Acculabs Inc.

Davis

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

MTBE By EPA 8260B

Sample Log 20325

July 23, 1999

Sample Name : MW-1

Project Name : Dublin Toyota

Project Number : 147-01-01

Sample Date : 07/14/99

Date Analyzed : 07/22/99

Date Received : 07/15/99

Dilution : 1:500

Sample Matrix : Water

Lab Number : 20325-01


<u>Parameter</u>	<u>MRL</u>	<u>Measured Conc.</u>	<u>Units</u>
Methyl-tert-butyl ether	2500	65000	ug/L
Dibromofluoromethane (surr)		94	% 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. - Davis

EPA 8260B QC Report

Matrix: Water


Date Analyzed: 7/22/99

QC Batch: VW990722

QC Limits Set: 4/12/99

Parameter	Spike Conc ug/L	LCS % Rec	LCSD % Rec	RPD	Control Chart Limits	
					Lower	Upper
1,1-Dichloroethene	50	87	90	3.7	26	134
Benzene	50	102	103	1.1	85	127
Trichloroethene	50	99	100	0.4	66	114
Toluene	50	112	112	0.2	58	131
Chlorobenzene	50	98	101	3.0	87	112

Surrogate Compound	Control Chart Limits	
	Lower	Upper
Dibromofluoromethane	76	132
Toluene-d8	64	123
4-Bromofluorobenzene	43	115


Tom Kwoka
Laboratory Director

