

May 7, 2003

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

Attention: Scott Seery

Subject: Report of Recent Groundwater Monitoring and
Workplan to Conduct Additional Site Characterization Activities
Dublin Toyota UST Site, 6450 Dublin Court, Dublin, California
Alameda County LOP Site ID No. 699
GA Project No. 147-01-03

Ladies and Gentlemen:

Gribi Associates is pleased to submit this 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 report and workplan summarizes groundwater monitoring activities conducted at the site on April 6, 2003 and includes a workplan to conduct additional site characterization activities at the site, in accordance with the letter from your office dated January 21, 2003. Specific workplan elements addressed herein include: (1) Conducting a utilities and well survey for the site; and (2) Conducting a soil and groundwater investigation to further characterize MTBE impacts at the site.

SITE BACKGROUND

The Dublin Toyota UST site consisted of three USTs located in a common tank farm which was located outside near the northeast corner of the maintenance garage (see Figure 2). The USTs included two 2,000-gallon steel gasoline tanks and one 1,000-gallon steel waste oil tank. The three USTs were removed from a common excavation by Scott Company on June 10, 1998. Based on soil and grab groundwater sampling results, which showed elevated levels of gasoline- and diesel-range hydrocarbons, the UST excavation cavity was overexcavated, and approximately 500 gallons of groundwater was pumped from the excavation cavity. Approximately 93 tons of hydrocarbon-impacted soil was disposed of offsite, and the UST excavation cavity was backfilled with 162 tons of clean imported fill material.

In December 1998, Gribi Associates drilled and sampled four investigative soil borings, IB-1 through IB-4, and drilled, installed, and sampled two groundwater monitoring wells, MW-1 and MW-2, at the site. Soil and groundwater samples collected from the borings and wells contained no significant levels of hydrocarbons, except for the groundwater sample from well MW-1, located about 15 feet

GRIBI Associates

Geological & Environmental Consulting Services

James E. Gribi, R.G.
Senior Geologist

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southwest from the former UST cavity. Groundwater samples from this well contained elevated levels of Methyl-t-butyl Ether (MTBE).

In August 2000, Gribi Associates drilled and sampled one soil boring, IB-5, inside the Dublin Toyota service building west from the former USTs and drilled, installed, and sampled one groundwater monitoring well, MW-3, south-southwest from the former USTs. Soil analytical results from these borings showed no detectable concentrations of gasoline-range hydrocarbons. Groundwater samples from these borings showed concentrations of MTBE that are significantly lower than MTBE concentrations in MW-1, indicating lateral attenuation of MTBE impacts in groundwater southwest from the former USTs. Subsequent groundwater monitoring of the three site groundwater monitoring wells in May 2002, November 2002, and April 2003 showed decreasing concentrations of MTBE in MW-1.

After discussing this site with Ms. Eva Chu of your office, Gribi Associates submitted a workplan to conduct Aggressive Fluid Vapor Recovery (AFVR) to attempt to decrease MTBE concentrations in groundwater adjacent to well MW-1. On January 21, 2003, the Alameda County Health Care Services Agency issued a letter that did not respond to the AFVR workplan, but rather, requested additional site characterization activities.

DESCRIPTION OF SAMPLING ACTIVITIES

On April 6, 2003, Gribi Associates personnel conducted groundwater monitoring activities for three site wells (MW-1, MW-2 and MW-3). Groundwater monitoring was conducted in accordance with California LUFT Field Manual guidelines as follows:

- All wells were opened, and water levels were measured to the nearest 0.01 foot using an electronic probe.
- For each well, a single bail of groundwater was taken using a clean PVC bailer to check for the presence or absence of floating free product.
- Prior to sampling, each well was purged of approximately three well volumes using either a 12-volt peristaltic pump (small diameter wells) or a 12-volt purge pump (two-inch and four-inch diameter wells). During purging, temperature, pH, conductivity, and visible clarity were monitored. Groundwater sampling data sheets for each well are contained in Appendix A.
- After purging parameters had stabilized, groundwater was poured directly into laboratory-supplied containers. Each container was then tightly sealed, making sure that no air bubbles were present. 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 depths measured in the three monitored wells ranged from 4.59 feet in MW-9 to 5.95 feet below surface grade in MW-1. Groundwater flow direction, which is shown on Figure 3, trends in a southeast direction and appears to be generally related to surface topography. No significant hydrocarbon odors were noted in purged groundwater during the purging and sampling of the groundwater monitoring wells. Additionally, no sheen or free-phase product was noted in any of the groundwater monitoring wells sampled during the sampling event.

Laboratory Analytical Results

Groundwater samples from the three 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 8021B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
- USEPA 8260B Methyl-t-butyl Ether (MTBE)
- USEPA 8260B Oxygenates (TBA, MTBE, DIPE, ETBE, and TAME)

Groundwater analytical results are summarized in Table 1. Groundwater MTBE results are summarized on Figure 4. The laboratory data report is contained in Appendix B.

Sample ID	Sample Date	GW Elevation	Concentration (mg/l)								
			TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE	OXY
MW-1	12/15/98	323.15	<0.050	0.110	46	<0.10	<0.10	<0.10	<0.10	62	NA
<328.89>	04/06/99	323.80	<0.050	<0.100	45	<0.050	<0.050	<0.050	<0.050	86¹	NA
	07/14/99	322.71	<0.050	<0.100	2.8	<0.10	<0.10	<0.10	<0.10	65¹	NA
	10/14/99	322.03	<0.050	<0.100	11	<0.017	<0.017	<0.017	<0.017	98¹	NA
	08/18/00	321.91	<0.050	<0.100	36	<0.050	<0.050	<0.050	<0.050	66¹	NA
	05/29/02	322.47	NA	NA	29.1	<0.015	<0.015	<0.015	<0.030	27.8¹	0.841²
	11/20/02	322.24	NA	NA	0.110	<0.0005	<0.0005	<0.0005	<0.0010	20.0	<0.050
	04/06/03	322.94	NA	NA	1.3	<0.0010	<0.0010	<0.0010	<0.0010	15.0	0.3722³

Table 1
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DUBLIN TOYOTA UST SITE

Sample ID	Sample Date	GW Elevation	Concentration (mg/l)								
			TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE	OXY
MW-2	12/15/98	323.34	<0.050	0.570	<0.050	<0.00050	0.00090	<0.00050	0.00150	<0.0050	NA
<327.64>	04/06/99	324.22	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	NA
	7/14/99	322.88	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	NA
	10/14/99	322.16	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050	NA
	08/18/00	321.92	<0.050	<0.100	<0.050	<0.00050	<0.00050	<0.00050	0.0011	0.016	NA
	05/29/02	322.46	NA	NA	<0.050	<0.0003	<0.0003	<0.0003	0.0039	0.0026	<0.010
	11/20/02	322.12	NA	NA	0.057	<0.0005	<0.0005	<0.0005	<0.0010	0.0091	<0.050
	04/06/03	323.05	NA	NA	<0.050	<0.0010	<0.0010	<0.0010	<0.0010	0.0057	<0.050
MW-3	08/18/00	321.77	<0.050	<0.100	0.210	<0.00050	0.00058	<0.00050	0.00059	0.570¹	NA
<327.44>	05/29/02	322.34	NA	NA	<0.050	<0.0003	<0.0003	<0.0003	0.219	0.281	<0.010
	11/20/02	321.88	NA	NA	0.200	<0.0005	<0.0005	<0.0005	<0.0010	0.460	<0.050
	04/06/03	322.80	NA	NA	0.270	<0.0010	<0.0010	<0.0010	<0.0010	0.340	<0.050

GW Elevation = Groundwater mean sea level elevation.
 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
 NA = Not analyzed for particular parameter

OXY = Oxygenates (except MTBE), including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME).
 <0.050 = Not detected above the expressed value.
 <328.89> = Surveyed top of casing mean sea level elevation.
 1 = MTBE result was confirmed using USEPA Method 8260B.
 2 = Oxygenate identified as TAME
 3 = Oxygenates identified as 0.0022 mg/l of ETBE, 0.010 mg/l of TAME, and 0.360 mg/l of TBA.

CONCLUSIONS

Laboratory analytical results from the April 2003 groundwater sampling event are similar to previous sampling events, continuing to show elevated, but decreasing, concentrations of MTBE in groundwater from monitoring well MW-1, and low concentrations of MTBE in groundwater samples from hydraulically downgradient groundwater monitoring well MW-3.

WORKPLAN TO CONDUCT ADDITIONAL INVESTIGATIVE ACTIVITIES

In response to the January 21, 2002 letter from your office, this workplan proposes to conduct a conduit and well survey and to conduct additional characterization of soil and groundwater beneath the site. All activities will be conducted in accordance with accepted protocols and statutes.

Project Approach

The January 21, 2003 letter from your office requests that a conduit and well survey be conducted and that additional soil and groundwater assessment be conducted at the site. For the conduit and well survey, we propose an approach that will include reviewing site building plans, conducting a utilities survey using a private utility surveyor, and reviewing available well logs at Alameda County Zone 7 Water Agency.

For the soil and groundwater assessment, since vertical definition soil lithology and groundwater MTBE impacts is of critical concern, we recommend advancing approximately four soil borings using cone penetrometer (CPT) tools. This drilling method will include CPT lithology logging prior to groundwater sampling, thus allowing for isolated sampling in identified sand layers (if present). We do not believe that additional soil sampling is warranted at this site. The only significant contaminant of concern at this site is MTBE. MTBE is very soluble in groundwater, and would not be expected to occur at significant concentrations below the water table.

Workplan Elements

Based on the project approach summarized above, Gribi Associates proposes to conduct the following tasks. All activities will be conducted in accordance with all applicable local, State, and Federal guidelines and statutes.

Conduit and Well Survey

The conduit survey will include: (1) Reviewing available as-built site construction plans at either the City of Dublin offices or at the site; and (2) Conducting a underground utilities survey using a qualified utilities locator. Information from these activities will be presented both on site plan and in writing. The well survey will include: (1) Reviewing available well logs at Alameda County Zone 7 Water Agency; and (2) Conducting a site reconnaissance to attempt to identify both permitted and unpermitted wells within a one-quarter mile radius from the project site. Information from these activities will be presented both on site plan and in writing.

Soil and Groundwater Investigation

Three deeper investigative soil borings will be drilled and sampled using cone penetrometer (CPT) tools. This drilling method will include CPT lithology logging prior to groundwater sampling, thus allowing for isolated sampling in identified sand layers (if present).

Prefield Activities

Prior to commencing drilling activities, a soil boring installation permit will be obtained from Alameda County Zone 7 Water Agency. Also, proposed boring locations 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 proposed boring locations. 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 Borings

Proposed locations for the four CPT soil borings are shown on Figure 4. These borings will be sited both to provide comprehensive assessment of deeper soil lithologies and to provide both source area and downgradient groundwater quality data. Accordingly, one investigative boring will be sited within ten feet immediately south from the former UST excavation cavity, and the three remaining borings will be sited approximately 50 feet southeast, southwest, and west from the former UST excavation cavity.

Drilling and Sampling of Investigative Soil Borings

Each of the four investigative borings will be drilled to a total depth not to exceed 70 feet below surface grade using CPT tools. This method involves, first, pushing an electronic piezocone penetrometer to the desired total depth while measuring lithologic parameters, and then, pushing a groundwater sampling probe to the desired sampling depth in a separate boring located one to two feet away from the initial CPT boring. During the initial CPT boring run, "real time" data processing is conducted, generating a lithologic log in the field. The second groundwater sampling boring allows for targeted groundwater sampling of a specific sand layer, or layers, identified during the CPT run.

One to two grab groundwater samples will be collected from each of the four investigative borings using a Hydropunch-type sampler, whereby the sampler is pushed to the desired depth and then retracted, exposing a screened interval that allows groundwater to enter inside the probe casing. Grab groundwater sample will then be collected using a clean stainless steel bailer as follows: (1) Laboratory-supplied containers will be completely filled directly from the bailer with a minimum of agitation; (2) After making sure that no air bubbles were present, each container will then be tightly sealed with a Teflon-lined septum; and (3) Each container will then be labeled and placed in cold storage 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. Following completion, each of the CPT borings will be grouted to match existing surface grade.

Laboratory Analysis of Water Samples

Approximately eight grab groundwater samples will be analyzed for the following parameters:

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8021B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8260B Oxygenates & Lead Scavengers (TBA, MTBE, DIPE, ETBE, TAME,
EDB, & 1,2-DCA)

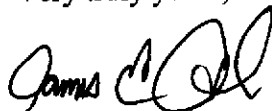
All analyses will be conducted by a California-certified analytical laboratory with two-week turn around on lab results.

Preparation of Summary Report

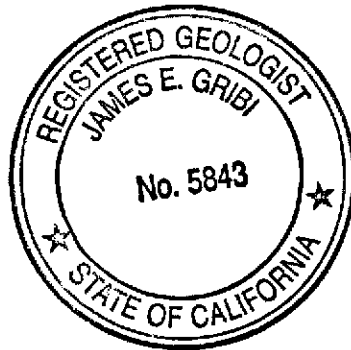
A report documenting both the conduit/well survey and the CPT soil boring investigation will be prepared for submittal to the Alameda County Department of Environmental Health. This report will describe all investigative activities and provide results of all activities.

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

Very truly yours,

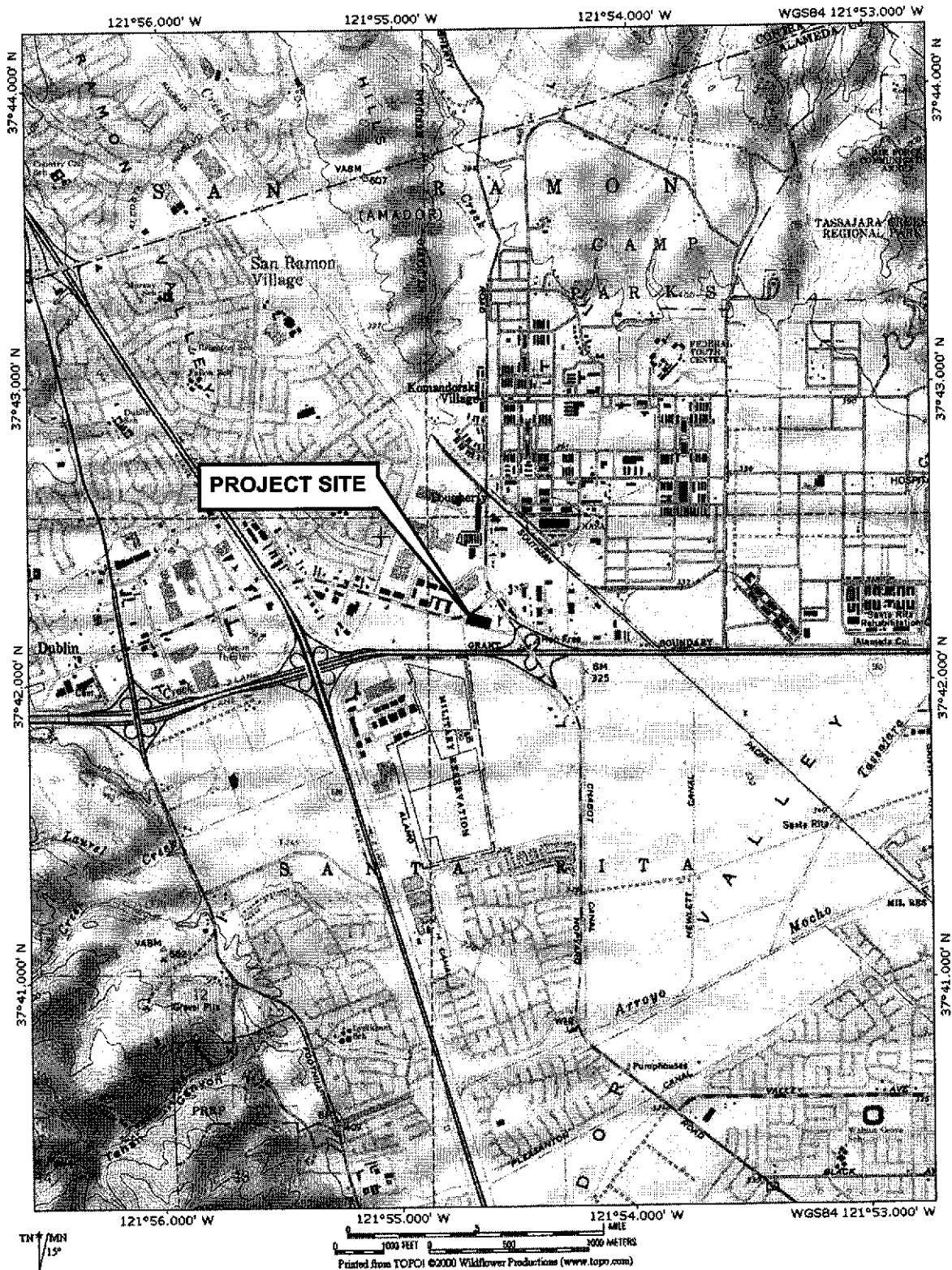


James E. Gribi
Registered Geologist
California No. 5843



Enclosure

cc: Mr. Scott Anderson, Dublin Toyota

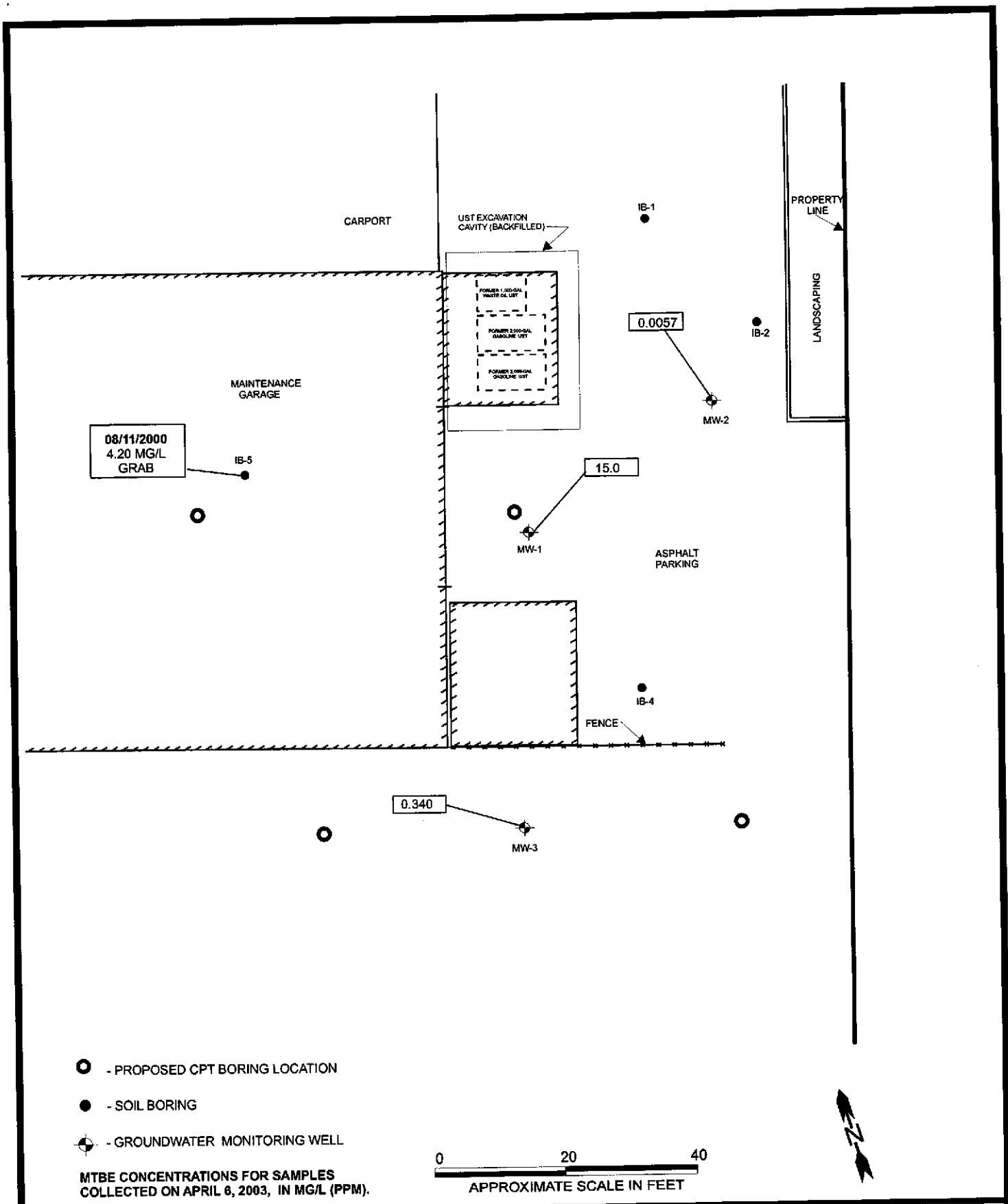


DESIGNED BY:	CHECKED BY:
DRAWN BY: EGH	SCALE:
PROJECT NO: 147-01-01	

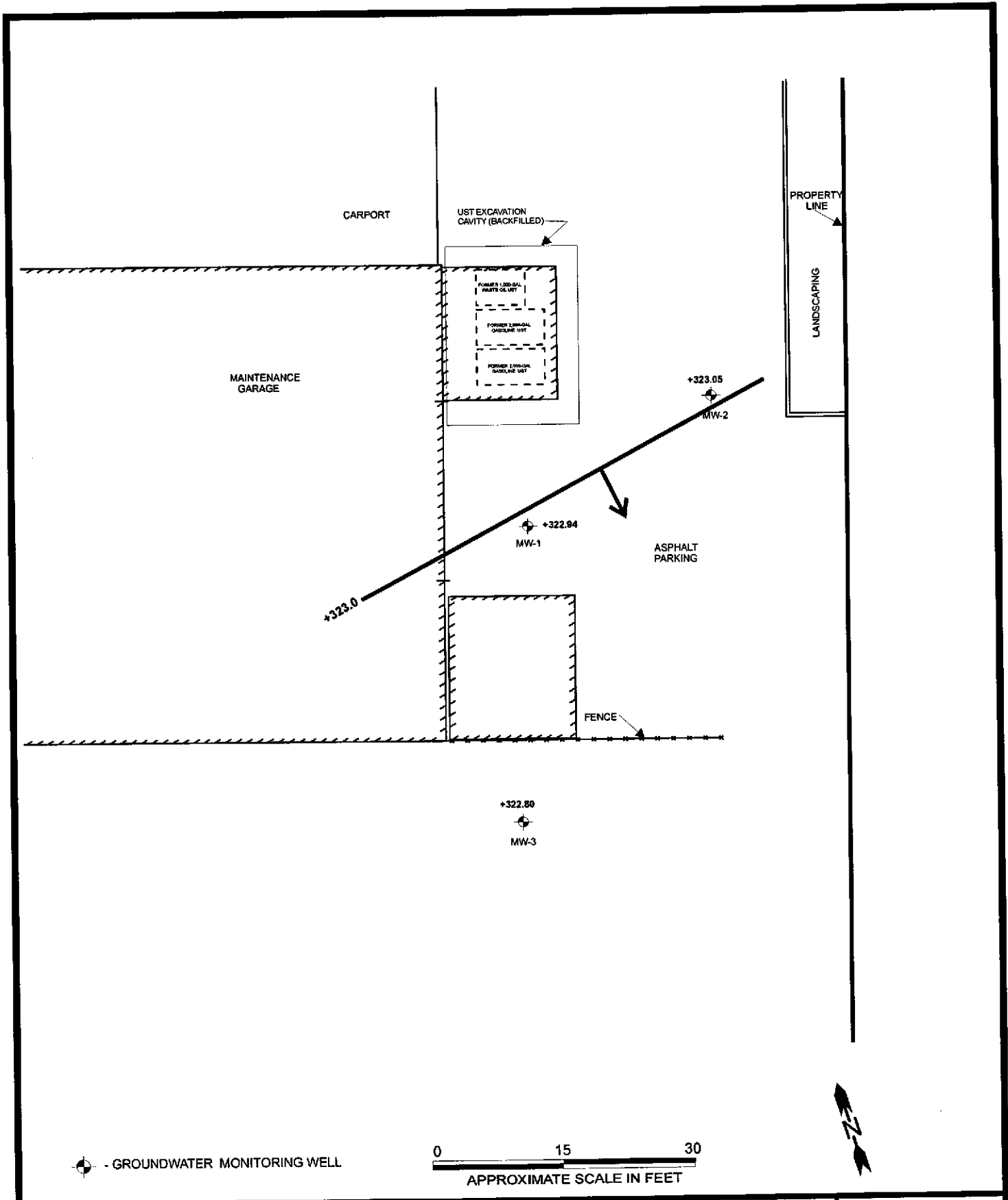
SITE VICINITY MAP

DUBLIN TOYOTA
6450 DUBLIN COURT
DUBLIN, CALIFORNIA

DATE: 05/07/03	FIGURE: 1
GRIBI Associates	



DESIGNED BY:	CHECKED BY:	PROPOSED BORING LOCATIONS DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	DATE: 05/07/03	FIGURE: 4
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 147-01-03				

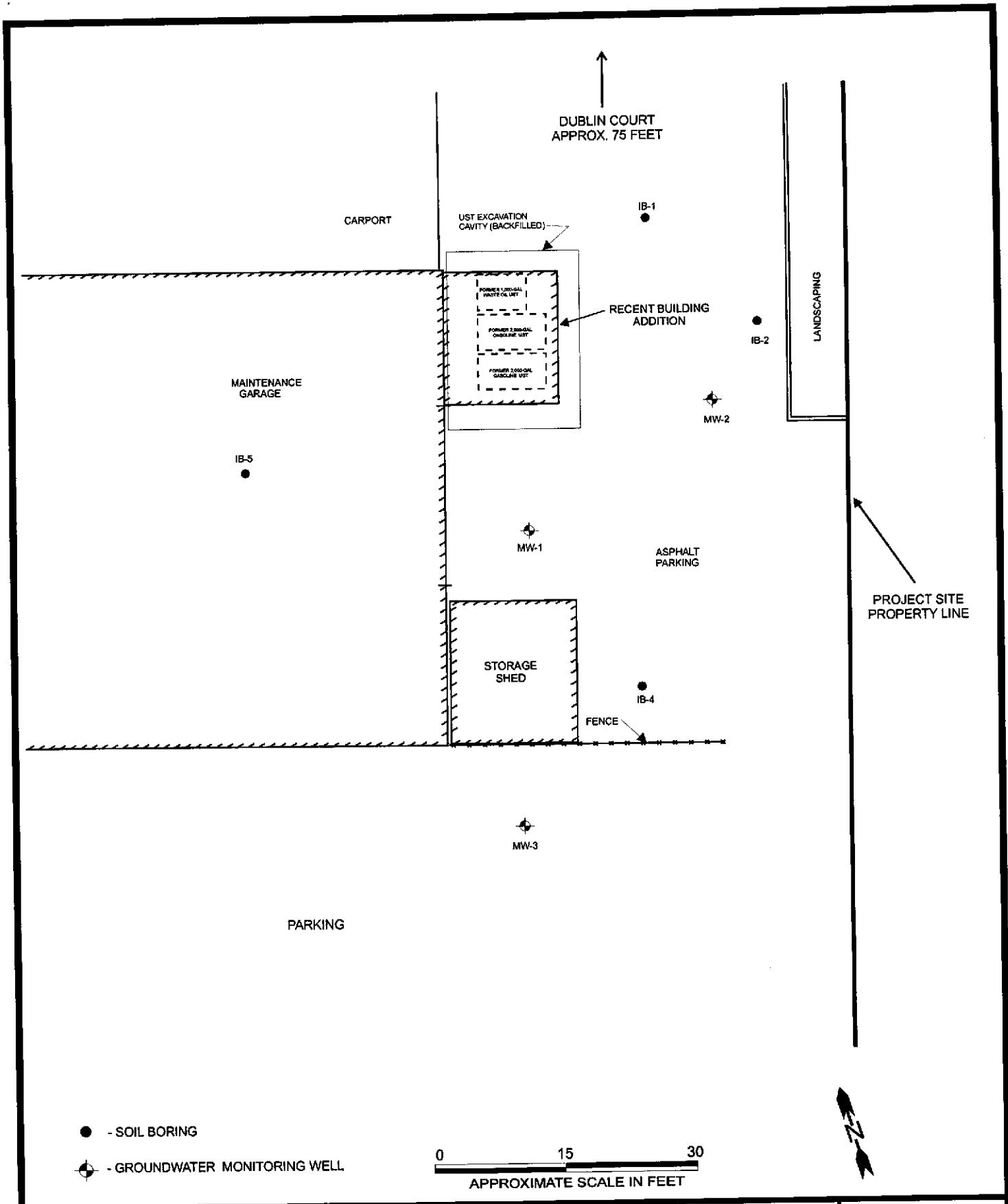


⊕ - GROUNDWATER MONITORING WELL

0 15 30
 APPROXIMATE SCALE IN FEET



DESIGNED BY:	CHECKED BY:	GROUNDWATER GRADIENT, 04-06-03 DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	DATE: 05/07/03	FIGURE: 3
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 147-01-03				



DESIGNED BY:	CHECKED BY:	SITE PLAN DUBLIN TOYOTA UST SITE 6450 DUBLIN COURT DUBLIN, CALIFORNIA	DATE: 05/07/03	FIGURE: 2
DRAWN BY: JG	SCALE:		GRIBI Associates	
PROJECT NO: 147-01-03				

APPENDIX A

GROUNDWATER MONITORING FIELD DATA RECORDS

GROUNDWATER SAMPLING RECORD		GRIBI Associates	
Well No.	MW-1	Well Loc.	
Project Name	Dublin Toyota	Project No.	
Date	4/6/03	Time	TOC Elevation
Depth to Water	5.95 ft	Well Depth	20 ft
Purge Water, 2": Wtr Column X 0.163 X 3 = 6.87 gal		Purge Water, 4": Wtr Column X 0.653 X 3 =	
Purge/Sample Method	Bailer	Lab Analyses	TPH-g, BTEX, MTBE, Oxygenates
Weather Conditions	Cloudy	Laboratory	

Time	Volume Purged	Temp. °C	Cond. MS	pH	Visual
12:00 p.m	1 gal	18.5	1634	6.93	Turbid / Light Brown
12:05	3 gal	19.3	1580	6.67	
12:10	5 gal	19.3	1600	6.60	
12:16	7 gal	19.2	1604	6.67	
Remarks					
Sampled @ 12:19 p.m					

GROUNDWATER SAMPLING RECORD

GRIBI Associates

Well No. MW-2	Well Loc.
Project Name Dublin Toyota	Project No.
Date 4/6/03 Time	TOC Elevation GW Elevation 323.05
Depth to Water 4.59 ft	Well Depth 20 ft Well Diameter 2 inch
Purge Water, 2": Wtr Column ^{15.41} X 0.163 X 3 = 7.54 gal	Purge Water, 4": Wtr Column X 0.653 X 3 =
Purge/Sample Method Bailer	Lab Analyses TPH-g, BTEX, MTBE, Oxygenates
Weather Conditions Cloudy	Laboratory

Time	Volume Purged	Temp. °C	Cond. µS	pH	Visual
11:22 a.m	1 gal	17.8	1127	7.14	Turbid / Grayish-Brown /
11:26	2 gal	18.0	1130	7.05	floating Black Particles
11:32	3 gal	18.0	1129	6.97	
11:37	5 gal	18.5	1107	6.98	
11:42	7 gal	18.3	1127	6.90	
11:49	8 gal	18.5	1118	6.88	

Remarks **Sampled @ 11:46 a.m ; 4/6/03**

GROUNDWATER SAMPLING RECORD		GRIBI Associates	
Well No. MW-3	Well Loc.		
Project Name Dublin Toyota	Project No.		
Date 4/6/03 Time	TOC Elevation	GW Elevation 322.80	
Depth to Water 4.64 ft	Well Depth 19.90 ft	Well Diameter 2 inch	
Purge Water, 2": Wtr ^{15.26} Column X 0.163 X 3 = 7.46 gal	Purge Water, 4": Wtr Column X 0.653 X 3 =		
Purge/Sample Method Bailer	Lab Analyses TPH-g, BTEX, MTBE, Oxygenates		
Weather Conditions Partially cloudy & Breezy	Laboratory		

Time	Volume Purged	Temp. °C	Cond. μS	pH	Visual
12:32 pm	1 gal	19.5	3401	6.72	Turbid / Light Brown
12:38	3 gal	20.3	3422	6.71	
12:43	5 gal	20.8	3683	6.74	
12:51	8 gal	20.0	3418	6.73	

Remarks **Sampled @ 12:53 pm**

APPENDIX B

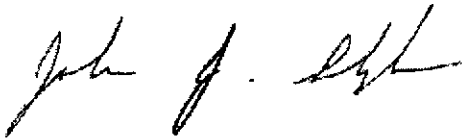
**LABORATORY DATA REPORT AND
CHAIN-OF-CUSTODY RECORD**

18 April 2003

Jim Gribi
Gribi Associates
1350 Hates St. – Suite C-14
Benicia, CA 94510
RE: Dublin Toyota

Enclosed are the results of analyses for samples received by the laboratory on 04/10/03 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "John J. Shepler".

John Shepler
Laboratory Director

Gribi Associates
1350 Hates St. -- Suite C-14
Benicia CA, 94510

Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
4/18/03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T300411-01	Water	4/6/03	4/10/03
MW-2	T300411-02	Water	4/6/03	4/10/03
MW-3	T300411-03	Water	4/6/03	4/10/03

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Gribi Associates
1350 Hates St. -- Suite C-14
Benicia CA, 94510

Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
4/18/03

Volatile Organic Compounds by EPA Method 8260B
SunStar Laboratories, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
MW-3 (T300411-03) Water Sampled: 04/06/03 00:00 Received: 04/10/03 12:00									
Benzene	ND	1.0	ug/l	1	3041409	04/14/03	04/15/03	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	340	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		102 %		86-115	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %		86-115	"	"	"	"	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Gribi Associates
 1350 Hates St. -- Suite C-14
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 4/18/03

Volatile Organic Compounds by EPA Method 8260B
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (T300411-01) Water Sampled: 04/06/03 00:00 Received: 04/10/03 12:00									
Benzene	ND	1.0	ug/l	1	3041409	04/14/03	04/15/03	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	15000	50	"	25	"	"	"	"	
Ethyl tert-butyl ether	2.2	2.0	"	1	"	"	"	"	
Tert-amyl methyl ether	10	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	360	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		96.8 %		86-115	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		86-115	"	"	"	"	
MW-2 (T300411-02) Water Sampled: 04/06/03 00:00 Received: 04/10/03 12:00									
Benzene	ND	1.0	ug/l	1	3041409	04/14/03	04/15/03	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	5.7	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		101 %		86-115	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %		86-115	"	"	"	"	

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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Gribi Associates
1350 Hates St. - Suite C-14
Benicia CA, 94510

Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
4/18/03

Purgeable Petroleum Hydrocarbons by 8015
SunStar Laboratories, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
MW-1 (T300411-01) Water Sampled: 04/06/03 00:00 Received: 04/10/03 12:00									
Gasoline Range Hydrocarbons	1300	50	ug/l	1	3041603	04/15/03	04/16/03	EPA 8015m	D-02
Surrogate: 4-Bromofluorobenzene		99.4 %	65-135		"	"	"	"	
MW-2 (T300411-02) Water Sampled: 04/06/03 00:00 Received: 04/10/03 12:00									
Gasoline Range Hydrocarbons	ND	50	ug/l	1	3041603	04/15/03	04/16/03	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		96.2 %	65-135		"	"	"	"	
MW-3 (T300411-03) Water Sampled: 04/06/03 00:00 Received: 04/10/03 12:00									
Gasoline Range Hydrocarbons	270	50	ug/l	1	3041603	04/15/03	04/16/03	EPA 8015m	D-02
Surrogate: 4-Bromofluorobenzene		118 %	65-135		"	"	"	"	

SunStar Laboratories, Inc.



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Gribi Associates
 1350 Hates St. -- Suite C-14
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 4/18/03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3041409 - EPA 5030 Water MS

Blank (3041409-BLK1)

Prepared: 04/14/03 Analyzed: 04/15/03

Benzene	ND	1.0 ug/l							
Toluene	ND	1.0 "							
Ethylbenzene	ND	1.0 "							
m,p-Xylene	ND	1.0 "							
o-Xylene	ND	1.0 "							
Methyl tert-butyl ether	ND	2.0 "							
Ethyl tert-butyl ether	ND	2.0 "							
Tert-amyl methyl ether	ND	2.0 "							
Di-isopropyl ether	ND	2.0 "							
Tert-butyl alcohol	ND	10 "							
Surrogate: Dibromofluoromethane	40.9	"	40.0		102	86-118			
Surrogate: Toluene-d8	39.9	"	40.0		99.8	86-115			
Surrogate: 4-Bromofluorobenzene	38.6	"	40.0		96.5	86-115			

LCS (3041409-BS1)

Prepared: 04/14/03 Analyzed: 04/15/03

Benzene	115	1.0 ug/l	100		115	75-125			
Toluene	117	1.0 "	100		117	75-125			
Surrogate: Dibromofluoromethane	38.0	"	40.0		95.0	86-118			
Surrogate: Toluene-d8	39.6	"	40.0		99.0	86-115			
Surrogate: 4-Bromofluorobenzene	37.7	"	40.0		94.2	86-115			

Matrix Spike (3041409-MS1)

Source: T300410-01

Prepared: 04/14/03 Analyzed: 04/15/03

Benzene	106	1.0 ug/l	100	ND	106	75-125			
Toluene	102	1.0 "	100	ND	102	75-125			
Surrogate: Dibromofluoromethane	40.9	"	40.0		102	86-118			
Surrogate: Toluene-d8	40.1	"	40.0		100	86-115			
Surrogate: 4-Bromofluorobenzene	38.8	"	40.0		97.0	86-115			

SunStar Laboratories, Inc.



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Gribi Associates
1350 Hates St. -- Suite C-14
Benicia CA, 94510

Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
4/18/03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3041409 - EPA 5030 Water MS

Matrix Spike Dup (3041409-MSD1)	Source: T300410-01			Prepared: 04/14/03	Analyzed: 04/15/03			
Benzene	103	1.0 ug/l	100	ND	103	75-125	2.87	20
Toluene	92.5	1.0 "	100	ND	92.5	75-125	9.77	20
Surrogate: Dibromofluoromethane	39.1	"	40.0		97.8	86-118		
Surrogate: Toluene-d8	40.1	"	40.0		100	86-115		
Surrogate: 4-Bromofluorobenzene	39.8	"	40.0		99.5	86-115		

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Gribi Associates
 1350 Hates St. -- Suite C-14
 Benicia CA, 94510

Project: Dublin Toyota
 Project Number: [none]
 Project Manager: Jim Gribi

Reported:
 4/18/03

Purgeable Petroleum Hydrocarbons by 8015 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041603 - EPA 5030 Water GC									
Blank (3041603-BLK1)									
Gasoline Range Hydrocarbons	ND	50 ug/l							Prepared: 04/15/03 Analyzed: 04/16/03
Surrogate: 4-Bromofluorobenzene	56.7	"	50.0		113	65-135			
LCS (3041603-BS1)									
Gasoline Range Hydrocarbons	5900	50 ug/l	5500		107	75-125			Prepared: 04/15/03 Analyzed: 04/16/03
Surrogate: 4-Bromofluorobenzene	48.4	"	50.0		96.8	65-135			
Matrix Spike (3041603-MS1)									
Gasoline Range Hydrocarbons	6050	50 ug/l	5500	64	109	65-135			Source: T300410-01 Prepared: 04/15/03 Analyzed: 04/16/03
Surrogate: 4-Bromofluorobenzene	51.1	"	50.0		102	65-135			
Matrix Spike Dup (3041603-MSD1)									
Gasoline Range Hydrocarbons	5720	50 ug/l	5500	64	103	65-135	5.61	20	Source: T300410-01 Prepared: 04/15/03 Analyzed: 04/16/03
Surrogate: 4-Bromofluorobenzene	47.3	"	50.0		94.6	65-135			

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Gribi Associates
1350 Hates St. -- Suite C-14
Benicia CA, 94510

Project: Dublin Toyota
Project Number: [none]
Project Manager: Jim Gribi

Reported:
4/18/03

Notes and Definitions

D-02 Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



John Shepler, Laboratory Director

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GRIBI Associates*Geological and Environmental Consulting Services***FACSIMILE TRANSMITTAL**

Date: MAY 7, 2003

To: SCOTT SEERY
ALAMEDA COUNTY
ENVIRONMENTAL HEALTH

Fax No.: (510)337-9335

From: JIM GRIBI
Phone: (707)748-7743
Fax: (707)748-7763Number of pages, including this transmittal page:

Scott,

Attached please find a report & workplan (less Figure 1 and Appendices) for Dublin Toyota. Note that I also conducted a review of nearby well logs at Zone 7, and found that there are no production wells anywhere near this site (Zone 7 production wells are miles to the south and east and are several hundred feet deep). Further, deeper boring logs in the immediate vicinity (geotech test borings at Dublin Library and test borings by Dublin San Ramon Services District) showed no significant sands or aquifer materials above 100 feet in depth.

Also, I conducted a cursory review of the API document that you recommended (Strategies for Characterizing Subsurface Releases of Gasoline Containing MTBE, February 2000). This document relies heavily on risk-based decision making (the potential of a dissolved plume to impact either drinking water or surface water), and mirrors many other similar documents. In my cursory review, I did not see anything that would indicate that the Dublin Toyota or Corwood Car Wash sites should be treated in any special manner, given the clear lack of shallow aquifer materials and groundwater production in the Dublin area.

I will finalize the attached report & mail out tomorrow. Please give me a call to discuss.

Thanks!

Jim