GETTLER-RYAN INC.

TRANSMITTAL

TO: Mr. David De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

DATE: June 16, 1999
PROJ. #: 140229.02
SUBJECT: Work Plan
Tosco 76 Branded Facility
No. 11120
6400 Dublin Boulevard
Dublin, California

FROM:
Clyde J. Galantine
Project Geologist
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	June 16, 1999	Limited Subsurface Investigation Report

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COMMENTS:
Enclosed is one copy of the above report. If you have any questions or comments, please call me at (925) 551-7555.

cc: Eva Chu, Alameda County Health Care Services Agency
Scott Hooton, BP Oil Company

99 JUN 17 PM 2:25
ENVIRONMENTAL PROTECTION

GETTLER-RYAN INC.

June 16, 1999

Mr. David De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

Subject: **Limited Subsurface Investigation Report**
Tosco 76 Branded Facility No. 11120
6400 Dublin Boulevard
Dublin, California

Dear Mr. De Witt;

This report summarizes the results of a limited subsurface investigation performed by Gettler-Ryan Inc. (GR) on May 14, 1999 at the above site. The work was performed at the request of Tosco Marketing Company (Tosco) to evaluate current groundwater quality beneath the subject site since BP Oil abandoned aoo previously installed groundwater monitoring wells. The scope of work included: advancing two soil borings using a GeoProbe® rig: collecting grab groundwater samples from the borings for chemical analysis; and preparing a report documenting the work. This work was requested by Ms. Eva Chu of Alameda County Health Care Services Agency (ACHCSA) in a conversation with a Tosco representative on May 9, 1999.

SITE DESCRIPTION

The site is an active service station dispensing 76 products located on the south corner of Dublin Boulevard and Dougherty Road in Dublin, California. The current facilities consist of a building housing a convenience market, two dispenser islands, two gasoline underground storage tanks (USTs) that share a common pit immediately northwest of the station building, and an above ground propane tank located near the western property boundary. Locations of pertinent site features are shown on Figure 1.

FIELD WORK

Field work was conducted in accordance with GR's Field Methods and Procedures (enclosed) and the Site Safety Plan dated May 4, 1999. A permit is not required for GeoProbe borings in Alameda County. Underground Service Alert was notified and an independent line locator was employed prior to drilling at the site.

Drilling Activities

On May 14, 1999, a GR geologist observed Gregg Drilling and Testing, Inc. (C57 #485165) drilling two on-site soil borings (HP-1 and HP-2) at the location shown on Figure 1. The borings were advanced to approximately 25 feet bgs using GeoProbe® technology with a cone penetrometer rig.

A grab groundwater sample was collected from each of the borings as required by ACHCSA. The samples were collected by using 1-inch diameter slotted temporary well casing and stainless steel bailer. Upon completion of sample collection, the borings were backfilled with bentonite from the total depth to approximately 3 inches below the ground surface. The borings were capped with asphalt at the surface level.

Laboratory Analysis

Grab groundwater samples HP-1 and HP-2 were analyzed by Sequoia Analytical in Walnut Creek, California (ELAP #1271) for Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MtBE) by Environmental Protection Agency (EPA) Methods 8015Modified/8020 and MtBE by EPA Method 8260. Copies of the laboratory analytical reports and chain-of-custody records are enclosed.

GROUNDWATER ANALYTICAL RESULTS

TPHg or BTEX were not detected in the grab groundwater samples collected from borings HP-1 or HP-2. Groundwater sample HP-1 contained 3,800 parts per billion (ppb) of MtBE by EPA Method 8020 and 4,800 ppb of MtBE by EPA Method 8260. Groundwater sample HP-2 contained 18,000 ppb of MtBE by EPA Method 8020 and 22,000 ppb of MtBE by EPA Method 8260. Groundwater analytical data are summarized in Table 1.

CONCLUSIONS

Based on analytical results from samples collected during this investigation, it appears that shallow groundwater in the vicinity of borings HP-1 and HP-2 has been impacted by MtBE.

DISTRIBUTION

GR recommends that a copy of this report be forwarded to Ms. Eva Chu at Alameda County Health Care Services Agency at 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California 94502 and Mr. Scott Hooton at BP Oil Company at 295 SW 41st Street, Building 13, Suite N, Reston, Washington 98055-4931.

If you have any questions regarding this report, please call us in our Dublin office at (925) 551-7555.

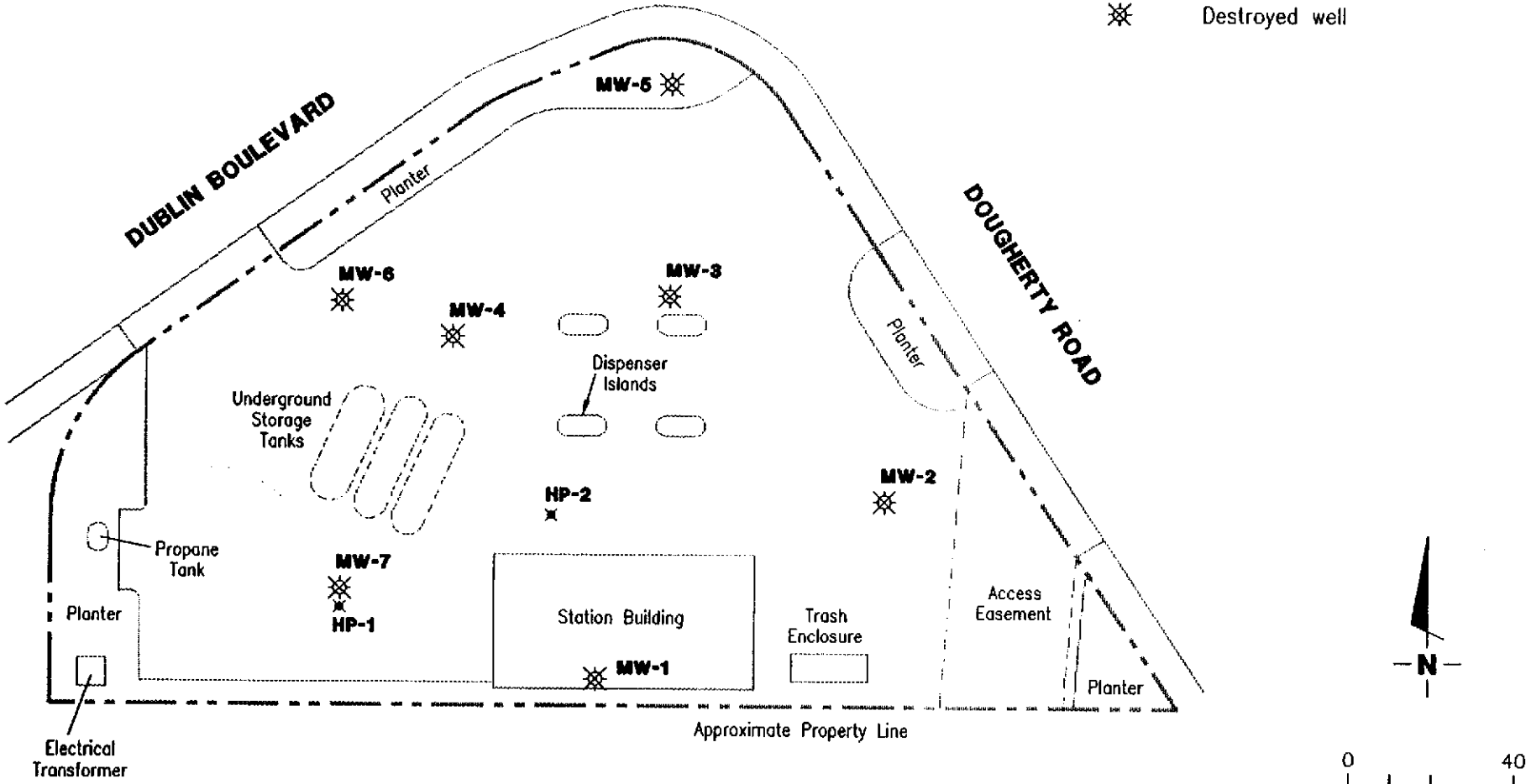
Sincerely,
Gettler-Ryan Inc.

Clyde J. Galantine
Project Geologist

Stephen J. Carter
Senior Geologist
R.G. 5577

REGISTERED GEOLOGIST
STEPHEN J. CARTER
No. 5577
STATE OF CALIFORNIA

Attachments:
Table 1. Groundwater Chemical Analytical Data
Figure1 Site Plan
GR Field Methods and Procedures
Laboratory Reports and Chain-of-Custody Forms



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568
(925) 551-7555

SITE PLAN
Tosco 76 Branded Service Station No. 11120
6400 Dublin Boulevard
Dublin, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140229.02		06/99	

TABLE 1 - GROUNDWATER ANALYTICAL DATA
Tosco 76 Branded Facility No. 11120
6400 Dublin Boulevard
Dublin, California

Sample No.	Sample Date	Floating Product (ft.)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE by 8020 (ppb)	MtBE by 8260 (ppb)
HP-1	5/14/99	0.0	ND	ND	ND	ND	ND	3,800	4,800[1]
HP-2	5/14/99	0.0	ND	ND	ND	ND	ND	18,000	22,000[1]

EXPLANATION:

TPHg = Total Petroleum Hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and xylenes
MtBE = Methyl tertiary butyl ether
ND = not detected
ft. = feet
ft. MSL = feet relative to Mean Sea Level.
ppb = parts per billion
--- = not applicable
[1] = Analyzed past EPA recommended holding time. Use for qualitive confirmation of BTEX, only.

ANALYTICAL LABORATORY:

Sequoia Analytical (ELAP #1271)

ANALYTICAL METHODS:

TPHg/BTEX/MtBE = EPA Methods 8015 Modified/8020
MtBE = EPA Method 8260

GETTLER - RYAN
FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan, Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the of these plans contents prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Exploratory soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples obtained with a Geoprobe® rig are collected from the soil boring with a split-barrel sampling device fitted with 1-inch-diameter, clean brass or plastic liners. The Geoprobe® drives the sampling device approximately 24 inches, and the filled sampler is then retrieved from the boring. The encountered soil is described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

a. depth relative to underground storage tanks and existing ground surface
b. depth relative to known or suspected groundwater
c. presence or absence of contaminant migration pathways
d. presence or absence of discoloration or staining
e. presence or absence of obvious gasoline hydrocarbon odors
f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Grab Groundwater Sampling

A temporary PVC screen is installed in the boring to facilitate a grab groundwater sample collection if necessary. Samples of groundwater are collected from the surface of the water in each boring using the teflon bailer or a pump. The water samples are decanted into laboratory-supplied containers appropriate for the anticipated analyses. Sample containers are then labeled and promptly placed in chilled storage for transport to the analytical laboratory. A Chain-of-Custody Record is initiated and updated throughout handling of the samples, and accompanies the samples to the laboratory certified by the State of California for analyses requested

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler-Ryan - Dublin	Client Project ID:	Tosco #11120, Dublin	Sampled: May 14, 1999
6747 Sierra Court, Suite J	Sample Matrix:	Water	Received: May 17, 1999
Dublin, CA 94568	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jun 4, 1999
Attention: Clyde Galantine	First Sample #:	905-1679	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 905-1679 HP-1	Sample I.D. 905-1680 HP-2
Purgeable Hydrocarbons	50	N.D.	N.D.
Benzene	0.50	N.D.	N.D.
Toluene	0.50	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.
MTBE	2.5	3,800	18,000
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	4.0	20
Date Analyzed:	5/24/99	5/24/99
Instrument Identification:	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	93	97

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler-Ryan - Dublin	Client Project ID:	Tosco #11120, Dublin	Sampled:	May 14, 1999
6747 Sierra Court, Suite J	Sample Descript:	Water, HP-1	Received:	May 17, 1999
Dublin, CA 94568	Analysis Method:	EPA 8260	Analyzed:	Jun 1, 1999
Attention: Clyde Galantine	Lab Number:	905-1679	Reported:	Jun 4, 1999

MTBE by EPA 8260

Analyte	Detection Limit µg/L	Sample Results µg/L
Methyl t-Butyl Ether (MTBE)	**20**	**4,800**

Surrogates	Control Limit %		% Recovery
Dibromofluoromethane	50	150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
* Analyzed past EPA recommended holding time. Use for qualitative confirmation of BTEX, only.

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler-Ryan - Dublin	Client Project ID:	Tosco #11120, Dublin	Sampled:	May 14, 1999
6747 Sierra Court, Suite J	Sample Descript:	Water, HP-2	Received:	May 17, 1999
Dublin, CA 94568	Analysis Method:	EPA 8260	Analyzed:	Jun 1, 1999
Attention: Clyde Galantine	Lab Number:	905-1680	Reported:	Jun 4, 1999

MTBE by EPA 8260

Analyte	Detection Limit µg/L	Sample Results µg/L
Methyl t-Butyl Ether (MTBE)	100	22,000

Surrogates	Control Limit %		% Recovery
Dibromofluoromethane	50	150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
* Analyzed past EPA recommended holding time. Use for qualitative confirmation of BTEX, only.

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Gettler-Ryan - Dublin
6747 Sierra Court, Suite J
Dublin, CA 94568
Attention: Clyde Galantine

Client Project ID: Tosco #11120, Dublin
Matrix: Liquid
QC Sample Group: 9051679-680
Reported: Jun 4, 1999

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	N. Nelson
MS/MSD Batch#:	9051693	9051693	9051693	9051693	LCS053199
Date Prepared:	5/24/99	5/24/99	5/24/99	5/24/99	5/31/99
Date Analyzed:	5/24/99	5/24/99	5/24/99	5/24/99	5/31/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	GC/MS-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	50 µg/L
Matrix Spike % Recovery:	95	80	85	98	100
Matrix Spike Duplicate % Recovery:	100	85	90	100	106
Relative % Difference:	5.1	6.1	5.7	1.7	5.8
LCS Batch#:	4LCS052499	4LCS052499	4LCS052499	4LCS052499	-
Date Prepared:	5/24/99	5/24/99	5/24/99	5/24/99	-
Date Analyzed:	5/24/99	5/24/99	5/24/99	5/24/99	-
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	-
LCS % Recovery:	95	80	85	98	-
% Recovery Control Limits:	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL, #1271

Julianne Fegley
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Chain-of-Custody-Record

TOSCO

Tosco Marketing Company
2000 Crow Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Number: Tosco 11120
Facility Address: 6400 Dublin Blvd, Dublin, CA
Consultant Project Number: 140229.02
Consultant Name: Getter-Ryan Inc.
Address: 6747 Sierra Ct Suite J Dublin CA
Project Contact (Name): Clyde Galantine
(Phone) (925) 551-7555 (Fax Number) (925) 551-7888

Contact (Name): Dave DeWitt
(Phone): (925) 277-2384
Laboratory Name: Sequoia
Laboratory Release Number: 9905149
Samples Collected by (Name): Clyde Galantine
Collection Date: 5/14/99
Signature: Clyde Galant

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (TCLP or AA)	MTBE 8260				DO NOT BILL TB-LB ANALYSIS Remarks
HP-1		4	W	G	3:15		Y	X								X				9051679
HP-2		4	W	G	4:15		Y	X								X				9051680

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Clyde Galant	G-R Inc.	5/14/99 16:45	Ken Gilbert	WC Seq	5/17/99 1445
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Ken Gilbert		5/17/99 1535			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			Ronald C. Jensen		5/17/99 15:35

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: June 18, 1999

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **BP Station No. 11120**
Site facility address: **6400 Dublin Blvd, Dublin, CA 94568**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **2095**
URF filing date: **2/2/93** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Scott Hooton **BO Oil**	**295 SW 41st Street** **Renton, WA 98055-4931**	**425/251-0667**

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	12,000	Gasoline	Removed	4/3/96
2	10,000	"	"	"
3	8,000	"	"	"
4	500	Waste Oil	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **10/19/98**
Monitoring Wells installed? **Yes** Number: **7**
Proper screened interval? **No, but adequate. Well MW-3 is screened from 14' to 19'bgs**
Highest GW depth below ground surface: **4.39'** Lowest depth: **8.43' in MW-3**
Flow direction: **SE**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Dublin Subbasin**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	4 USTs		
Soil	1,370 cy	Disposed at BFI Landfill, Livermore	Apr-June 1996

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After[4]
TPH (Gas)	2,700		14,000	520
TPH (Diesel)	570		6,200	ND
Benzene	3.2		500	0.52
Toluene	21		1,600	ND
Ethylbenzene	34		280	ND
Xylenes	180		2,100	ND
MTBE	NA		37,000[5]	ND[6]
Other **Tetrachloroethene (PCE)**	0.0076		6.7	ND

NOTE:
1. soil samples collected at time of UST removal at 10'bgs, 4/96 (PCE from waste oil pit)
2. no overexcavation performed at the site after the tanks were removed
3. grab groundwater sample collected from gasoline tank pit at time of removal, 4/96 (PCE from gasoline pit)
4. most recent groundwater sampling results, 6/98 (PCE conc. from well MW-1 in 10/92)
5. maximum concentration measured using Method 8020 from well MW-3 in 9/95
6. results using EPA Method 8260, 6/98 (see attached Table 7)

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____

Does corrective action protect public health for current land use? **YES**

Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**

Should corrective action be reviewed if land use changes? **YES, hydrocarbon contamination in soil must be addressed/re-evaluated if site use changes or a building is to be constructed over the area of residual contamination.**

Monitoring wells Decommissioned: **No, pending site closure**

Number Decommissioned: **0** Number Retained: **7. MW-1 is inaccessible (building built over it)**

List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Date:

Reviewed by

Name: **Larry Seto** Title: **Senior Haz Mat Specialist**

Signature: Date:

Name: **Thomas Peacock** Title: **Supervisor**

Signature: Date:

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: **Chuck Headlee** Title: **EG**

Signature: Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently an active gasoline service station.

In October 1992 four exploratory borings (B-1 through B-4) were drilled at the site and converted into groundwater monitoring wells MW-1 through MW-4, respectively. Groundwater was first encountered at 16' to 17' bgs, stabilizing at ~9' bgs. Groundwater appeared to be under confined conditions, thus, the wells were screened from ~14' to 19'bgs. Two soil samples were collected from each boring and analyzed for TPHg, TPHd, BTEX, TOG, and HVOC. Groundwater was analyzed for TPHg TPHd, and BTEX. Water from well MW-1, near the used oil UST, was also analyzed for HVOC and TOG. Hydrocarbon constituents were identified in soil and groundwater from borings B-3/MW-3 and B-4/MW-4. (See Figs 1, 2, and Tables 1, 2)

In April 1993 three additional groundwater monitoring wells, MW-5 through MW-7, were drilled to further define the extent of soil and groundwater contamination. In addition, an exploratory boring, LB-1, was drilled and logged continuously from 9.5' to 30.5'bgs to better characterize the first water bearing zone. No significant levels of hydrocarbons were detected in soil and groundwater from these borings. Groundwater was initially encountered at ~16.5' to 20.5'bgs and stabilized at ~5'bgs. A second water bearing zone was encountered in boring LB-1 at 29'bgs. A step draw-down aquifer test was performed on well MW-6. The results of the draw-down test indicate that the maximum sustainable yield from MW-6 is approximately 2.0 gpm. (See Fig 3 and Table 3)