ELLIS PARTNERS, INC.

ALCO HAZMAT

94 NOV 18 PM 3:23

November 7, 1994

Ms. Eva Chu
Department of Environmental Health
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94612

RE: Beacon #604, 1619 1st Street
Livermore, CA

Dear Eva:

Pursuant to the letter sent to you by Ultramar dated October 12, 1994, enclosed is an oversight report of the Ultramar investigation on the Livermore Arcade property.

Please contact me if you have any questions.

Sincerely,

James F. Ellis
Partner

JFE/srg

cc: Terence Fox, Ultramar Inc.
Cecil Fox, California R.W.Q.C.B.

encl. Ultramar Oversight Report dated 7/22/94

11/25 What are screened intervals for MW-01, 23, 24 and 04 at Livermore Arcade. These may be used to characterize plume from Beacon station

Leon Crain (916) 863-5916

351 California Street, Suite 1150 San Francisco, CA 94104 Tel: (415) 391-9800 Fax: (415) 391-4711

GCL
Environmental Science and Engineering
A BDM International Company

505 Marquette NW, Ste. 1100 • Albuquerque, NM 87102
(505) 842-0001 • FAX: (505) 842-0595

July 22, 1994

Mr. Jim Ellis
Grubb & Ellis Realty Income Trust, L.T.
351 California Street
Suite 1120
San Francisco, CA 94104

RE: REPORT OF GCL OVERSIGHT OF ULTRAMAR INC. INVESTIGATION ON LIVERMORE ARCADE SHOPPING CENTER PROPERTY

Dear Mr. Ellis:

On July 7 & 8, 1994, Ultramar, Inc. conducted an investigation on Livermore Arcade Shopping Center (LASC) property located northwest and down-gradient of the Beacon station at 1619 First Street, Livermore, California. The area of investigation covers the parking area directly south of the Safeway store on LASC property (figure 1). The purpose of the investigation was to evaluate the impact of the documented gasoline UST leak at the Beacon station on the groundwater beneath the LASC property. GCL provided oversight of the Ultramar investigation on behalf of Grubb & Ellis Realty Income Trust, L.T. (GERIT L.T.). This letter report summarizes the results of GCL's oversight activities.

The following individuals were on site during the investigation.

Personnel	**Representing**
Patrick Montano	GCL
Terry Fox (present 7/7/94)	Ultramar
Steven Liaty	Acton, Mickelson, van Dam
Eugene Nunes	West Hazmat Drilling

The investigation was conducted by Ultramar's consultant, Acton, Mickelson and van Dam, Inc. (AMD) and consisted of the following field activities.

- soil samples were collected from each borehole at 15', 25', 35', and 40' below ground level using a split spoon sampler and were field screened for organic vapors
- selected soil samples from each borehole were submitted to the lab for THP-G (Gasoline) and BTEX analysis
- two soil borings (HP-2, HP-3) were drilled to a depth just above the top of the water table with penetration into the saturated zone using a hydropunch tool to facilitate collection of a groundwater sample
- one soil boring (HP-1) was drilled into the saturated zone to a depth of approximately 48 feet below ground level and a 2-inch slotted PVC casing was inserted in the borehole to facilitate collection of a groundwater sample
- groundwater samples from HP-1, HP-2, and HP-3 were submitted to the lab for THP-G (Gasoline) and BTEX analysis

The oversight work performed by GCL on behalf of GERIT L.T. consisted of the following:

- a review of existing information regarding past and ongoing environmental investigations at the Beacon station
- on-site oversight of Ultramar's investigation with documentation of AMD's field activities (GCL's field note are included as Attachment 1)
- collection of split samples for lab analysis for TPH-G and BTEX from 3 soil samples collected by Ultramar
- collection of split samples for lab analysis for TPH-G and BTEX from 3 groundwater samples collected by Ultramar
- preparation of this letter report summarizing GCL's oversight activities of Ultramar's investigation and results of lab analysis

METHOD OF INVESTIGATION

Soil Sample Collection

The borehole was advanced to the desired sample depth with a hollow stem auger. Soil samples were collected from each borehole at 15', 25', 35', and 40' below ground level using a split spoon sampler with 3 six-inch-long brass tubes. Depending on sample recovery, two tubes from each sampling interval were capped with teflon liners and plastic end caps, sealed in a plastic bag, and placed on ice in a thermally insulated cooler pending selection of samples for laboratory analysis. Soil contained in the remaining sample tube was used for soil classification and field screening. Selected soil samples were sent to a state-certified analytical laboratory with chain-of-custody documentation for BTEX and TPH-G analysis.

Groundwater Sample Collection

Groundwater samples were collected from HP-2 and HP-3 (figure 1) using the hydroPunch method. Representative groundwater samples were obtained by: (1) drilling borings to the static groundwater level (approximately 43 ft. below ground level) with a mobile drilling rig, (2) pushing a hydroPunch probe 2 to 3 feet into the groundwater table, (3) the outer metal portion of the probe was than lifted leaving the probe point and inner slotted PVC screen in place and exposed to the groundwater, (4) the slotted screen casing was allowed to fill with groundwater and bailed with a one-half inch diameter bailer. Groundwater samples were collected in appropriate laboratory-supplied containers, retained on ice in a thermally insulated cooler and submitted to a state-certified analytical laboratory with chain-of-custody documentation for BTEX and TPH-G analysis.

The hydroPunch method was abandoned after numerous unsuccessful attempts to recover a groundwater sample from the HP-1 location (figure 1). The borehole was advanced into groundwater to a depth of 48 feet below ground level with a hollow stem auger. A clean 2-inch slotted PVC casing was inserted into the borehole and allowed to fill with groundwater. A disposable bailer was used to purge approximately 5 gallons of water from the temporary well prior to collection of a groundwater sample. The groundwater sample was collected with a new disposable bailer, poured in laboratory-supplied containers, retained on ice in a thermally insulated cooler and submitted to a state-certified analytical laboratory with chain-of-custody documentation for BTEX and TPH-G analysis.

Equipment Decontamination

All downhole drilling equipment was steam cleaned prior to use and between borings. Soil and groundwater sampling equipment was washed in an Alconox soap solution and rinsed with clean water after each use.

Waste Handling

Decontamination wash and steam cleaning water was placed into D.O.T. approved watertight 55-gallon drum and stored on the Beacon station property at 1619 First Street, Livermore, California. Drill cuttings generated at each borehole were placed in the bed of a pick-up truck, removed from LASC property, and stockpiled on a plastic liner on the Beacon station property.

Borehole Closure

Following soil and groundwater sample collection, all boring locations were backfilled with a neat cement grout containing approximately 5% bentonite. The backfill was than capped with a black cement. All sites were washed down with a steam cleaner following completion of the investigation.

SITE GEOLOGY

In general, the site geology underlying the investigation area consists of: sandy silty gravel from ground level to approximately 20 feet below ground level (bgl); silty clay from 20 feet bgl to 34 feet bgl; and sandy silty gravel from 34 feet bgl to the total depth of the borehole. Groundwater was encountered at approximately 43 feet bgl at each borehole location.

RESULTS OF INVESTIGATION

Soil Samples

Soil samples were collected from each borehole at approximately 15', 25', 35', and 40' below ground level for field screening with a photoionization detector (PID). The soil was removed from one 6-inch brass tube and placed in a zip-lock plastic bag and allowed to equilibrate prior to field screening. PID results of the field screening of samples collected from HP-1, HP-2, and HP-3 are provided below.

Results of Soil PID Field Screening

Sample Interval	HP-1	HP-2	HP-3	Soil Type
14.0' - 15.5'	0 ppm	0 ppm	0 ppm	Silty sandy gravel
24.0' - 25.5'	0 ppm	0 ppm	0 ppm	Silty clay
34.0' - 35.5'	2 ppm	0 ppm	0 ppm	Silty clay w/gravel
40.0' - 41.5'	NA	20 ppm	0 ppm	Silty sandy gravel

NA = No PID screening due to minimal sample recovery

Soil samples split with ADM personnel from the 40.0 to 41.5 foot interval from all three boring locations, were sent to K-Prime Laboratory in Richmond, CA for BTEX and TPH-G analysis. ADM personnel indicated that they were also sending soil from this interval to their lab for analysis. The results of the lab analysis of soil samples from HP-1, HP-2, and HP-3 are provided below. The analytical results as received from the lab are included as Attachment 2.

Results of Soil Sample Lab Analysis

Analytical Parameter	HP-1	HP-2	HP-3
TPH-G (Gasoline) (mg/kg)	ND	ND	ND
Benzene (ug/kg)	8.04	ND	ND
Toluene (ug/kg)	ND	ND	ND
Ethylbenzene (ug/kg)	ND	ND	ND
Xylenes (total) (ug/kg)	24.5	60.1	ND

ND = None detected, mg/kg = ppm, ug/kg = ppb

Groundwater Samples

Groundwater samples split with ADM personnel from all three boring locations, were sent to K-Prime Laboratory in Richmond, CA for BTEX and TPH-G analysis. The groundwater samples were collected from a depth of 48 feet bgl in HP-1, 46 feet bgl in HP-2, and 45 feet bgl in HP-3. The results of the lab analysis of groundwater samples from HP-1, HP-2, and HP-3 are provided below. The analytical results as received from the lab are included as Attachment 2.

Results of Groundwater Sample Lab Analysis

Analytical Parameter	HP-1	HP-2	HP-3
TPH-G (Gasoline) (mg/L)	52.1	4.12	0.68
Benzene (ug/L)	6,760	326	4.92
Toluene (ug/L)	429	6.04	0.738
Ethylbenzene (ug/L)	2,590	40.3	1.62
Xylenes (total) (ug/L)	17,300	594.2	5.05

ND = None detected, mg/L = ppm, ug/L = ppb

If you have any questions or comments regarding the information provided, please contact us.

Sincerely,
Geoscience Consultants, Ltd. (GCL)

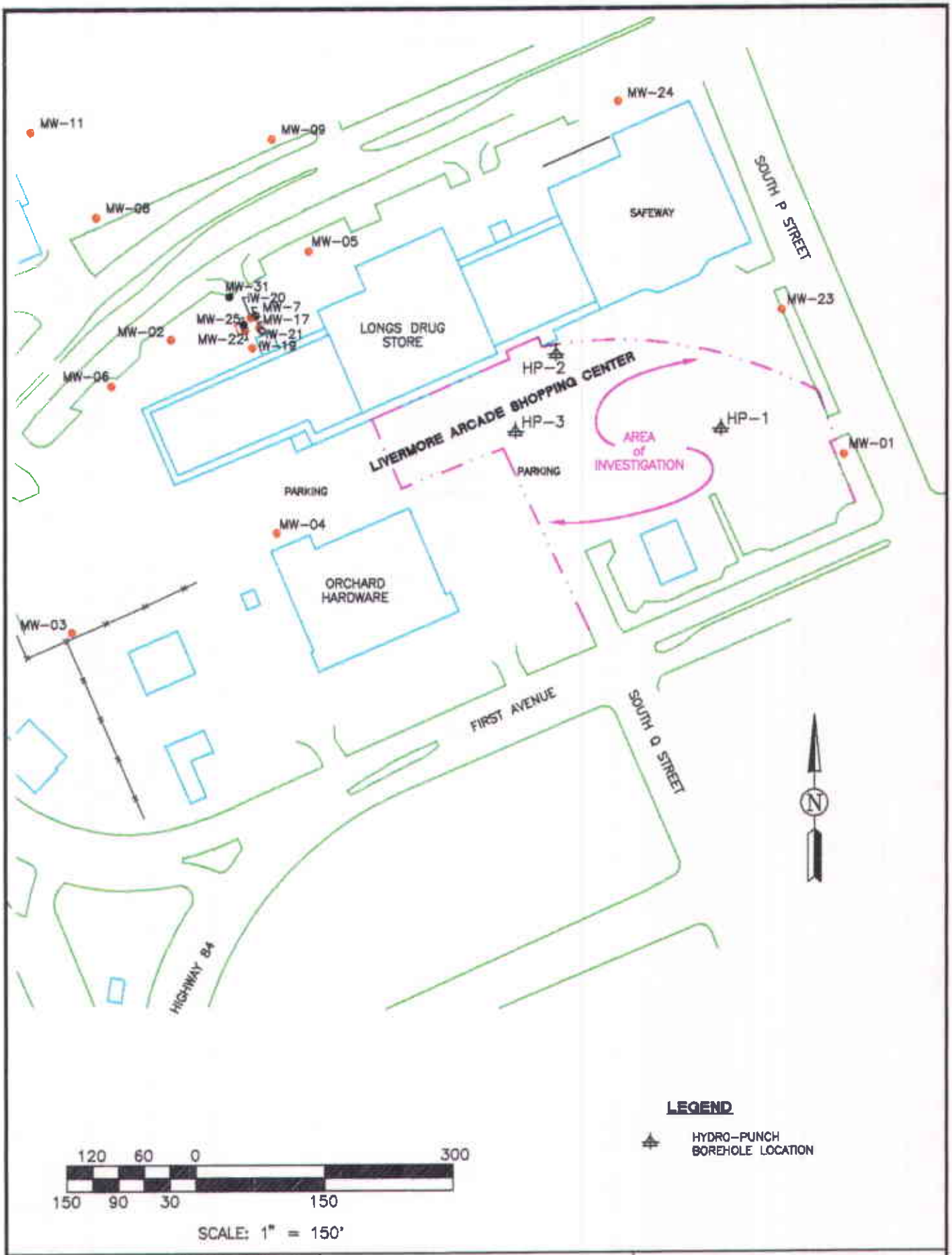
Patrick A. Montano
Project Manager
for Oversight Activities

Randall T. Hicks
Principal in Charge

/3062/OVERSGHT.RPT

cc: Rhonda Methvin, GCL

REGISTERED GEOLOGIST
RTH
RANDALL T. HICKS
No. 4488
7/22/94
STATE OF CALIFORNIA



GCL

CLIENT: GERIT L.T.	
DATE: 7/13/94	REV. NO.: 0
AUTHOR: P.M.	DRAWN BY: M.P.
CK'D BY: P.M.	FILE: ULTRAMAR

FIGURE 1
ULTRAMAR INC.
INVESTIGATION
SITE MAP

(1)

7-7-94

0745 - ARRIVE ON SITE AT LASC SOUTH PARKING AREA.

ULTRAMAR CONSULTANT/DRILLERS ARE NOT HERE

CHECK WATER LEVEL @ MW-4 = 38.15 ft.

TASK: OVERSIGHT AND SPLIT SAMPLES WITH ULTRAMAR CONSULTANT CONDUCTING HYDRO-PUNCH INVEST. IN LASC SOUTH PARKING AREA TO DETERMINE EXTENT OF BTEX PLUME FROM BEACON STATION SE AND UPGRADIENT FROM LASC

PERSONNEL: P. MONTANO - GCL

WATER TABLE HAS dropped ~~FT~~ in 3.79 SINCE MAY 18, 1994.

MW 4 - 5/18/94 = 34.36'

MW 4 - 7/7/94 = 38.15'

$\Delta = 3.79'$

I will adjust my contour map prepared ~~earl~~ earlier accordingly -

Pat Montano.

(2)

7/7/94

0815 - Consultant / Drillers are not here.

0830 - Call Jenny Fox, No answer, Leave message

0855 - WEST HAZMAT DRILLING CORP. ARRIVES.

WEST HAZMAT
Drilling Corp.

EUGENE J. NUNES

8281 Enterprise Drive • Newark, CA 94560
(510) 494-8111 • FAX (510) 494-8144 • C-57 No. 554979

ACTON • MICKELSON • van DAM, INC.

Consulting Scientists, Engineers, and Geologists

STEVEN A. LIATY
Assistant Staff Geologist

4511 Golden Foothill Parkway, Suite 1
El Dorado Hills, CA 95762

(916) 939-7550
Fax (916) 939-7570

(3)

7/7/94

0910 - Steve Liaty of AMD Arrives

0930 - Terry Fox Ultramar of Arrives
Drillers are decon'ing Auger.

1020 - DRILLERS SET-UP ON H-P-1

1030 - Begin drilling w/ 8' Auger, Checking Air utilities w/ Hand Auger.

Auger to ~~14~~ 14' Sandy Silty Gravel
Collect Sample w/ Split Spoon from 14' to 15.5', No Hydrocarbon odor

AMD SAVES 1-BRASS in ICE, MATERIAL From 1-BRASS TUBE INTO BAGGIE FOR PID, 14' to 15.5' PID = 0 -

1115 - Continue drilling, to 24.5' for next Sample.
Hit Clay @ 20'

Start sample collection @ 24'

Paul Monte

No Hydrocarbon odor down to 24'
Hydrocarbon odor detect @ 32'
Collect Sample @ 25', PID = 0 -
Collect Sample @ 35' PID = 2 ppm
Collect Sample @ 40' No PID

Auger to 40', Stop, est. water table @ 41', will advance Hydro punch here.

Sample # 9407071230
Sample type Investigative (Split) H2O
Location HP-1 Screen depth ≈ 48'
Analytes BTEX, TPH-G
Containers 3-40 ml. Preserv. None
8043 Lab K-PRIME
Sampler P. Montano

1330 - The HP Tool was advance to 42', in Sandy gravelly material, This required numerous blows. Bail was run down the well, unable to go past 38'. The feeling is that the HP pipe was bent during advancement. We will

Pat Montano

try to modify (shorten) the bailer to get it past the bend.

Modified bailer went past the bend, hole was dry.

- Drill hole to 43'
- USE SPLIT SPOON TO ADVANCE HOLE to 44.5
- DRIVE HP TOOL TO 46'

Unable to recover water from Hydropunch tool.

1530 - Drill to 48' to attempt to set temp. well (abandon Hydro punch) 2" PVC Insider Auger.

Bail ≈ 5 gals. From temp well.
1600 - Collect Sample #'ed 9407071230
Bailed H2O had Hydro odor
Soil Sample collected from 40' that was beacon ICE. will be sent to Lab.

Pat Montano

(6)

7-7-94 HP-1

Sample # 9407071620
Sample type Invest. (Split)
Location HP-1 Screen depth 40'
Analytes BTEX, TPH-G
Containers 1-1½×6" Brass Preserv. None
COC # 8043 Lab K-Prime
Sampler P. Montana

Soil/Cutting loaded on AMD Truck to be stockpiled @ Beacon Station

Drillers are backfilling Borehole with Cement.

HP-1 is located ≈ 110' NW of MW-1 and ≈ 145' SW of MW-23

1800 - Drillers complete Backfilling HP-1. Leave Site

Patrick Montana

(7)

7-8-94. HP-2

Personnel: P. Montana - GCL
Steve Liaty - AMD
West Hazmat Drilling

Task: Continue Hydro-punch or Temp well activities.

0600 - Arrive on site, Drillers and AMD are not here yet.

0630 - Steve Liaty - AMD Arrives

0645 - Drillers arrive
Discuss with Steve the possibility of Moving HP-2 Further to the West. Current Location is ~~in breez~~ just South of breezeway west of Round Table pizza. Steve Indicate that he was instructed by Terry Fox to locate the HP There.

HP-2 is located ≈ 295' West of South P Street West Curb.

0700 - Drills are setting up over HP-2 Location

Pat Montana

0715 - Start Drilling @ HP-2

Auger to 14' - material Consist of gravel w/ Sand and Silt. No Hydro odor

Collect Sample from 14' to 15.5' w/ Split Spoon, PID = 0 - , Gravel, Sand, Silt

Continue drilling to 24' - material Consist of Silty Clay. No Hydro. odor

AT ≈ 18' material changes to Silty Clay.

Collect Sample from 24' to 25.5' w/ Split Spoon, PID = 0 - , Silty Clay

Continue drilling to 34', encounter minor gravel @ 30', Silty Clay @ 34', No Hydro odor

Collect Sample from 34' to 35.5' w/ Split Spoon, PID = 0 - , Silty Clay w/ minor pebbles

Continue drilling to 40', material contains more gravel

Pat Montano

Collect Sample from 40' to 41.5' w/ Split Spoon, PID = 20 ppm, Gravelly, Sand, Clay

Hydro carbon odor encountered @ ≈ 39'

Drill to 43', prepare to insert hydro-punch tool. Advance point to ≈ 46' open Screen. Hole is producing water Sample sample below exhibits slight Hydro-Carbon odor.

Samp. # 940708/000

Sample type Twost (Split) H2O

Location HP-2 Screen depth ≈ 46'

Analytes BTEX, TPH-G

Containers 3-40 ml. Presery. NONE

COC # 8046 Lab K-PRIME

Sampler P Montano

Drillers are Grouting / backfilling HP-2

Pat Montano

(10) 7/8/94 HP-2

Sample # 9407081005
Sample type Trip Blank
Location LAS Screen depth
Analytes BTEX, TPH-G
Containers 3-40 ml. Presery. None
COC # 8046 Lab K-Prime
Sampler P. Montano

AMD has indicated Host Hay will send the Soil Sample from HP-2, 40' to Czb.

Sample # 9407081010
Sample type Invest (Split) Soil
Location HP-2 Screen depth 40'
Analytes BTEX, TPH-G
Containers 1-1½" x 6" Brass Presery. None
COC # 8046 Lab K-Prime
Sampler P. Montano

1200- Begin drilling on HP-3 located ≈ 105' SW of HP2.

Pat Montano

(11) 7/8/94 HP-3

Auger to 14', material Consist of Gravel, sand, silt, no Hydro-odor

Collect Sample from 14' to 15.5' w/split spoon, PID = -0-, Gravel, Sand, Silt

Continue drilling to 24', material Consist of Gravel, Sand, and Some Clay, no-Hydro odor

Collect Sample from 24' to 25.5' w/split spoon, PID = -0-, Silty Clay

@ ≈ 30' material change to Silty Clay

Continue drilling to 34', material consist of Silty Clay 25.5' to 31', Silty clay w/ pebbles 31' to 34', Rig is overheating.

Collect Sample from 34' to 35.5 w/split spoon, PID = -0-, Silty Clay w/pebbles Recovered only 6"

Begin to drill to 40' encounter Gravels @ ≈ 36', rig overheats again.

Pat Montano

(12)

7/8/94 HP-3

Very hard drilling area (gravel) encountered @ ≈ 36'

1500 - Able to drill to 40', collect split spoon @ 40' to 41' feet recover 15", material consist of Gravel w/ sand & clay. no apparent Hydrocarbon odor. PID = -0-

Auger to 43', drive split spoon to 44', material is saturated Gravel, sand, clay. PID = -0- no apparent Hydrocarbon odor.

Insert hydro-punch tool, drive @ 1', pull-up 3½" to expose screen, Collect H_2O Sample

Sample # 9407081550
Sample type Invest. (Split) H_2O
Location HP-3 Screen depth 45'
Analytes BTEX, TPH-G
Containers 3, 40 ml. Presery. None
COC # 8046 Lab K-Prime
Sampler P. Martens

7/8/94 HP-3 (13)

H_2O sampled @ HP-3 exhibited Slight Hydrocarbon odor

Sample # 9407081600
Sample type Invest. (Split) Soil
Location HP-3 Screen depth 40
Analytes BTEX, TPH-G
Containers 1-1"6"x6" Brass Presery. None
COC # 8046 Lab K-Prime
Sampler P. Martens

AMD indicates that they will send the 40' soil sample, I will send to Lab also. (Above)

Steve w/ AMT says that HP-3 will be the last Hole for today, Ultraman will review data collected today and determine if additional HP hole(s) are necessary on LASC property. Additional I spoke with Terry Fox, He says that the access agreement was only good for 7-7, 8, -94. I Checked Access agreement, valid through 7-15-94. In any event Mr. Fox

(14) 7-8-94

has decided to:
- discontinue work for now
- review data collected to date
- decide if further work is necessary next week

Mr. Fox informed me that water sample collected from HP-1 yesterday contained BTEX (12 lbs. TAT from Lab)

1640 - Drillers are grouting HP-3

1730 - Relinquish Samples to K-Prime representive, COC # 8043, 8046

Drillers finish off holes w/Black cement, All sites are cleaned-up and look good.

1830 - Leave Site

Pat Morton

Attachment 2

Analytical Results

K PRIME, INC.

CONSULTING ANALYTICAL CHEMISTS

4197 Lakeside Dr., Suite 170
Richmond, CA 94806
(510) 222-4815
Fax: 222-4817

TRANSMITTAL

DATE: 7/13/94

TO: Ms. Annette Montoya
GCL
505 Marquette NW, Suite 1100
Albuquerque, NM 87102

Phone: (505) 842-0001
FAX: (505) 842-0595

Acct#: 100-9411
Project: 3062.001

FROM: Richard A. Kagel, Ph.D. RAK 7/15/94
Laboratory Director

SUBJECT: YOUR PROJECT #3062.001 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	SAMPLE TYPE	DATE	KPI LAB #
9407071230 } HP-1	WATER	7/07/94	5038
9407071620 }	SOIL	7/07/94	5039
9407081000 HP-2	WATER	7/08/94	5040
9407081005 TRIP BLANK	WATER	7/08/94	5041
9407081010 HP-2	SOIL	7/08/94	5042
9407081550 } HP-3	WATER	7/08/94	5043
9407081600 }	SOIL	7/08/94	5044

These samples were tested in our laboratory for BTEX by EPA 8020/ 602 and for TPH-G by EPA 8015M/CA DHS LUFT. Please call me if you have any questions or need further information.

Thank you for this opportunity to be of service.

9411

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407071230
LAB NO: 5038
SAMPLE TYPE: WATER
DATE SAMPLED: 7/7/94
TIME SAMPLED: 12:30

METHOD: BTEX HP-1
REFFERENCE: EPA 8020

DATE ANALYZED: 7/12/94
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.00	6,760
TOLUENE	108-88-3	5.00	429
ETHYLBENZENE	100-41-4	5.00	2,590
M-&P-XYLENE	1330-20-7	5.00	12,600
O-XYLENE	95-47-6	5.00	4,700

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/12/94
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.50	52.1
TPH-D*	0.05	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: PB
DATE: 7/12/94

APPROVED BY: MAK
DATE: 7/15/94

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407071620
LAB NO: 5039
SAMPLE TYPE: SOIL
DATE SAMPLED: 7/7/94
TIME SAMPLED: 16:20

METHOD: BTEX HP-1
REFFERENCE: EPA 8020

DATE ANALYZED: 7/8/94
UNITS: UG/KG

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.0	8.04
TOLUENE	108-88-3	5.0	ND
ETHYLBENZENE	100-41-4	5.0	ND
M-&P-XYLENE	1330-20-7	5.0	24.5
O-XYLENE	95-47-6	5.0	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/8/94
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.0	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 7/12/94

APPROVED BY: RAC
DATE: 7/15/94

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407081000
LAB NO: 5040
SAMPLE TYPE: WATER
DATE SAMPLED: 7/8/94
TIME SAMPLED: 10:00

METHOD: BTEX
REFFERENCE: EPA 8020 HP-2

DATE ANALYZED: 7/11/94
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	326
TOLUENE	108-88-3	0.50	6.04
ETHYLBENZENE	100-41-4	0.50	40.3
M-&P-XYLENE	1330-20-7	0.50	558
O-XYLENE	95-47-6	0.50	36.2

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/11/94
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	4.12
TPH-D*	0.05	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 7/12/94

APPROVED BY: RAK
DATE: 7/15/94

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407081005
LAB NO: 5041
SAMPLE TYPE: WATER
DATE SAMPLED: 7/8/94
TIME SAMPLED: 10:05

METHOD: BTEX
REFFERENCE: EPA 8020

TRIP BLANK (QA)

DATE ANALYZED: 7/8/94
UNITS: UG/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	ND
TOLUENE	108-88-3	0.50	ND
ETHYLBENZENE	100-41-4	0.50	ND
M-&P-XYLENE	1330-20-7	0.50	ND
O-XYLENE	95-47-6	0.50	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/8/94
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	ND
TPH-D*	0.05	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 9/12/94

APPROVED BY: MK
DATE: 7/15/94

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407081010
LAB NO: 5042
SAMPLE TYPE: SOIL
DATE SAMPLED: 7/8/94
TIME SAMPLED: 10:10

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 7/8/94
UNITS: UG/KG

HP-2

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.0	ND
TOLUENE	108-88-3	5.0	ND
ETHYLBENZENE	100-41-4	5.0	ND
M-&P-XYLENE	1330-20-7	5.0	60.1
O-XYLENE	95-47-6	5.0	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/8/94
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.0	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AMS
DATE: 7/12/94

APPROVED BY: RAK
DATE: 7/15/94

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407081550
LAB NO: 5043
SAMPLE TYPE: WATER
DATE SAMPLED: 7/8/94
TIME SAMPLED: 15:50

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 7/11/94
UNITS: UG/L

HP-3

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	0.50	4.92
TOLUENE	108-88-3	0.50	0.738
ETHYLBENZENE	100-41-4	0.50	1.62
M-&P-XYLENE	1330-20-7	0.50	3.96
O-XYLENE	95-47-6	0.50	1.09

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/11/94
UNITS: MG/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.05	0.680
TPH-D*	0.05	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: AB
DATE: 7/12/94

APPROVED BY: MK
DATE: 7/15/94

K PRIME, INC.
LABORATORY REPORT

OUR PROJECT: 100-9411
YOUR PROJECT: 3062.001

SAMPLE ID: 9407081600
LAB NO: 5044
SAMPLE TYPE: SOIL
DATE SAMPLED: 7/8/94
TIME SAMPLED: 16:00

METHOD: BTEX
REFFERENCE: EPA 8020

DATE ANALYZED: 7/9/94
UNITS: UG/KG

HP-3

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
BENZENE	71-43-2	5.0	ND
TOLUENE	108-88-3	5.0	ND
ETHYLBENZENE	100-41-4	5.0	ND
M-&P-XYLENE	1330-20-7	5.0	ND
O-XYLENE	95-47-6	5.0	ND

METHOD: TPH-G/D
REFERENCE: EPA MOD 8015

DATE ANALYZED: 7/8/94
UNITS: MG/KG

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	1.0	ND
TPH-D*	10.0	NA

NOTES:
ND - NOT DETECTED AT STATED REPORTING LIMIT
NA - NOT APPLICABLE

* - DIESEL RANGE EXTRACTABLES GC/FID PATTERN

DIESEL FUEL	
DEGRADED DIESEL FUEL	
PETROLEUM - HEAVIER THAN DIESEL	
PETROLEUM - LIGHTER THAN DIESEL	
UNKNOWN EXTRACTABLES PATTERN	

PREPARED BY: RS
DATE: 7/12/94

APPROVED BY: RAK
DATE: 7/15/94

PROJ # 9411

GCL
Environmental Science and Engineering
A BDM International Company

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FAX: (301) 459-3064

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PO Drawer MM
Las Cruces, NM 88004
(505) 524-5353
FAX: (505) 524-5315

№ 8046

Chain of Custody

Date 7-8-94 Page 1 Of 1

Lab Name K-PRIME, INC.
Address 4197 LAKESIDE DR. SUITE H
RICHMOND, CA 94806
Telephone 510-222-4815

Samplers (SIGNATURES)
Pat Montano

Analysis Request

Sample Number	Matrix	Location	Halogenated Volatiles 601/8010	Aromatic Volatiles 602/8020	Phenols, Sub Phenols 604/8040	Pesticides/PCB 608/8080	Polynuclear Aromatic Hydrocarbons 610/8310	Volatile Compounds GC/MS 624/8240	Base/Neut/Acid Compounds GC/MS 625/8270	Total Organic Carbon (TOC) 415/9060	Total Organic Halides (TOX) 9020	Petroleum Hydrocarbons 418.1	TPH/BTEX Modified 8015	TCLP- Vol., Semi-Vol. Herbicides, Pesticides	TCLP- Metals	RCRA Metals(8)	Priority Pollutant Metals (13)	CAM Metals (18) TTLC/STLC	Flash Point	Corrosivity	Reactivity	Oil & Grease	Cyanide Total/Amenable	Chemical Oxygen Demand (COD)	BTEX, TPH-G				Number of Containers
9407081000	H_2O	HP-2																									5040		3
9407081005	H_2O	Trip Blank																									5041		3
9407081010	Soil	HP-2																									5042		1
~~9408~~																													
9407081550	H_2O	HP-3																									5043		3
9407081600	Soil	HP-3																									5044		1

Project Information	Sample Receipt	
Project LIVERMORE (BTEX)	Total No. of Containers	
Project Director MONTANO	Chain of Custody Seals	
Charge Code No. 3062.001	Rec'd Good Condition/Cold	
Shipping ID. No.	Conforms to Record	
Via: Pick-up	Lab No.	

Special Instructions/Comments:

Relinquished By 1.	Relinquished By 2.	Relinquished By 3.
Pat Montano 1730 (Signature) (Time)	(Signature) (Time)	(Signature) (Time)
PATRICK MONTANO 7-8-94 (Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (Date)
GCL (Company)	(Company)	(Company)
Received By 1.	**Received By 2.**	**Received By (Laboratory) 3.**
ARMANDO BARBOSA 17:30 (Signature) (Time)	(Signature) (Time)	(Signature) (Time)
7/8/94 (Printed Name) (Date)	(Printed Name) (Date)	(Printed Name) (Date)
K-PRIME INC (Company)	(Company)	(Laboratory)

Distribution: White, Canary-Laboratory • Pink, GCL