

September 5, 2003  
1731-2G

Mr. Amir Gholami  
**ALAMEDA COUNTY HEALTH AGENCY**  
1131 Harbor Bay Parkway  
Alameda, California 94502

**RE: SOIL SAMPLING RESULTS**  
**MODEL BUILDING PAD**  
**2901 GLASCOCK STREET**  
**OAKLAND, CALIFORNIA**

Dear Mr. Gholami:

This letter presents analytical results of soil sampling performed in the future model building pad area at 2901 Glascock Street in Oakland, California (Figures 1 and 2). The soil sampling was performed in accordance with our September 2, 2003 soil sampling plan and modifications requested by you in the field on September 2, 2003.

#### **Soil Observations**

The concrete floor of the former warehouse has been demolished and removed from the future model building pad area. The model building pad area is shown on Figure 2.

Soil beneath the floor of the model building pad has been observed periodically during the demolition process. No suspect soil, odors, debris or structures have been observed beneath the warehouse floor in the model building pad area.

#### **Soil Sampling**

Soil samples were collected on September 2, 2003 in the presence of Amir Gholami of Alameda County Health Department. Four exploratory test pits were excavated at the locations shown on Figure 2. At the request of Mr. Gholami, test pits GSS-1 and GSS-2 were excavated to a depth of approximately 2 ½ feet below ground surface (bgs). Test pit GSS-3 was excavated to a depth of approximately 7 feet bgs and test pit GSS-4 was excavated to a depth of approximately 9 feet bgs. No suspect odors or discoloration were observed in the soil. Ground water was not encountered in the test pits.

Test pit GSS-5 was excavated on September 3, 2003 to a depth of approximately 2 ½ feet bgs. No suspect staining or odors were observed in the test pit. At the approval of Mr. Gholami, this test pit was not excavated and sampled in his presence.

Soil samples were collected from the test pits for laboratory analyses at depths requested by Mr. Gholami. Soil samples were analyzed for total petroleum hydrocarbons in the gasoline range (TPHg) plus benzene, toluene, ethylbenzene, and xylene (BTEX) and MTBE (EPA Test Method 8020/8015); total petroleum hydrocarbons in the diesel range (TPHd) and motor oil range (TPHmo)(EPA Test Method 8015); lead, arsenic, cadmium, and copper (EPA Test Method 6010); polynuclear aromatic hydrocarbons (PAHs) (EPA Test Method 8310); and

selected based on potential chemicals of concern identified during previous investigations.

Laboratory analytical results are summarized in Tables 1 and 2. The complete analytical results and chain of custody documentation are presented in Attachment A.

**Table 1. Analytical Results of Selected Soil Samples  
(concentrations in parts per million)**

Sample Number	Depth (feet)	TPHg	TPHd	TPHmo	BTEX	MTBE	PNAs	PCBs
GSS-1	2 ½	<1.0	<1.0	<50	<0.005	<0.005	ND	<0.05
GSS-2	2 ½	<1.0	<1.0	<50	<0.005	<0.005	ND	<0.05
GSS-3	7	<1.0	<1.0	<50	<0.005	<0.005	ND	<0.05
GSS-4	2 ½	<1.0	<1.0	<50	<0.005	<0.005	ND	<0.05
GSS-4	8 ½	<1.0	<1.0	<50	<0.005	<0.005	ND	<0.05
GSS-5	2 ½	<1.0	<1.0	<50	<0.005	<0.005	ND	<0.05

< Indicates that the compound was not detected at or above the stated laboratory reporting limit  
 ND No PNAs were detected by EPA Test Method 8310 above laboratory reporting limits

**Table 2. Analytical Results of Selected Soil Samples  
(concentrations in parts per million)**

Sample Number	Depth (feet)	Arsenic	Cadmium	Copper	Lead
GSS-1	2 ½	2.1	<0.50	12	2.7
GSS-2	2 ½	2.1	<0.50	9.8	2.8
GSS-3	7	7.7	<0.50	20	5.5
GSS-4	2 ½	1.6	<0.50	19	3.9
GSS-4	8 ½	3.0	<0.50	25	4.0
GSS-5	2 ½	<1.0	<0.50	23	6.2
Residential ESL		5.5**	1.7	230	200

< Indicates that the compound was not detected at or above the stated laboratory reporting limit  
 ND No PNAs were detected by EPA Test Method 8310 above laboratory reporting limits  
 \* Environmental Screening Level, Table A. California Regional Water Quality Control Board, San Francisco Bay Region. July 2003  
 \*\* Site-specific cleanup goal is 8 ppm

## Discussion of Results

## Discussion of Results

Results of previous investigations are summarized on Figures 2 through 9. Laboratory analyses of soil samples collected during this and previous investigations have not detected petroleum hydrocarbons above California Regional Water Quality Control Board's (CRWQCB) ESLs, except as discussed below. Concentrations of metals detected were consistent with typical background levels. In addition, PNAs and PCBs were not detected in soil.

An approximately 4,000-gallon fuel oil <sup>9 Ft TPHd</sup> underground storage tank (UST) was removed from the location shown on Figure 2 during 1993. Two soil samples were collected from a depth of approximately 9 feet bgs from the UST pit after the tank was removed. Laboratory analyses detected 1,400 parts per million (ppm) total petroleum hydrocarbons as diesel (TPHd) and 1 ppm total petroleum hydrocarbons as gasoline (TPHg) in one of the samples. These concentrations are below the site-specific residential cleanup goals approved by the CRWQCB for 303/315 Derby Avenue, although the diesel exceeded the CRWQCB's ESL. No TPHd or TPHg were detected in the other verification soil sample. In addition, benzene, toluene, ethylbenzene, or xylene (BTEX) were not detected in either sample.

Laboratory analyses of ground water samples collected from monitoring well MW-4, located approximately 10 feet down-gradient of the former fuel oil UST and adjacent to the model building pad, have not detected gasoline, diesel, or oil range hydrocarbons or BTEX since March 2001, with the exception of 92 parts per billion (ppb) TPHg detected in February 2002. Prior to March 2001, low concentrations of TPHd (57 ppb to 310 ppb) were detected sporadically. Based on the analytical results, the residual diesel in soil at the former UST has not significantly impacted ground water quality.

Petroleum hydrocarbons have been detected in ground water samples collected from former monitoring well MW-1, formerly located approximately 20 feet south of the model building pad. The concentrations detected have been significantly below the site-specific residential occupancy target levels approved by the CRWQCB for 303/315 Derby Avenue.

Volatile organic compounds (VOCs) have not been detected in the MW-1 and MW-4 ground water, with the exception of 1,1-dichloroethane and 1,1-dichloroethene detected below drinking water standards (5 ppb and 6 ppb, respectively).

## Conclusions

Based on the previous soil and ground water data, observations of soil beneath the floor of the warehouse, and analytical results of soil samples collected during this investigation, the soil and ground water in the area of the future model building pad are acceptable for residential development. Signature Properties plans on beginning grading of their model building pad during the week of September 8, with construction of the model condominiums beginning September 15, 2003.

## Limitations

This letter was prepared for the use of Signature Properties and the Alameda County Health Agency. We make no warranty, expressed or implied, except that our services have been

performed in accordance with environmental principles generally accepted at this time and location.

If you have any questions, please call and we will be glad to discuss them with you.

Very truly yours,

**Lowney Associates**



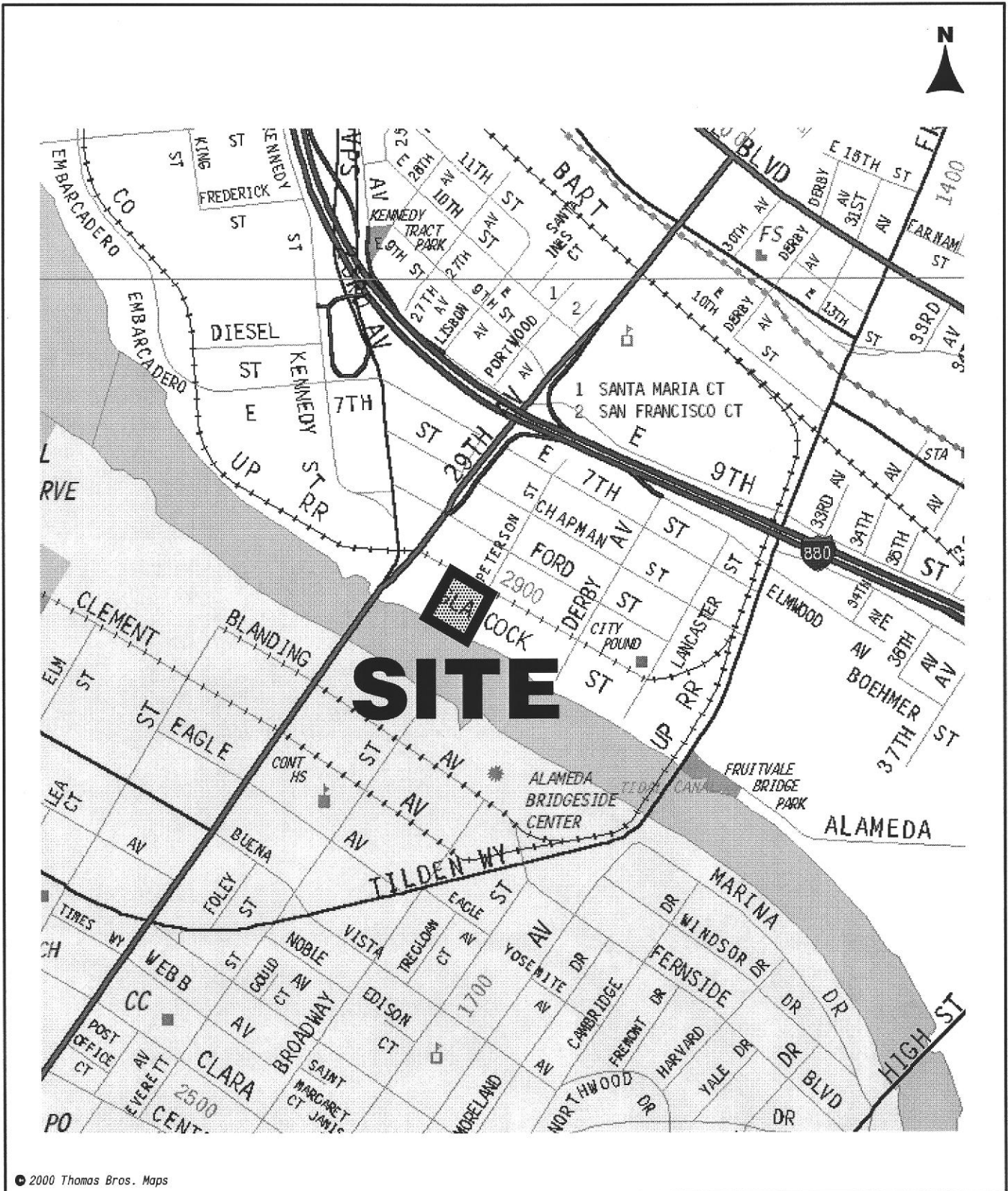
Peter M. Langtry, R.G., C.E.G.  
Principal Environmental Geologist



Copies: Addressee (1)  
Signature Properties (1)  
Attn: Ms. Mary Grace Houlihan

Attachments: Figure 1, Vicinity Map  
Figure 2, Site Plan  
Figure 3, Metal, PNA, and PCB Results in Soils  
Figure 4, TPHd Detected in Soil, 0 to 7 Feet  
Figure 5, TPHd Detected in Soil, 7 to 10 Feet  
Figure 6, TPHd Detected in Soil, 10 to 16 Feet  
Figure 7,TPHg and Benzene Detected in Soil, 0 to 7 Feet  
Figure 8, TPHg and Benzene Detected in Soil, 7 to 10 Feet  
Figure 9, TPHg and Benzene Detected in Soil, 10 to 16 feet  
Attachment A: Analytical Data Reports

OK, P:\Projects\1700\1731-2 Derby-Glascock\1731-2G remediation\1731-2G Glascock soil sampling results model pad 090503.doc



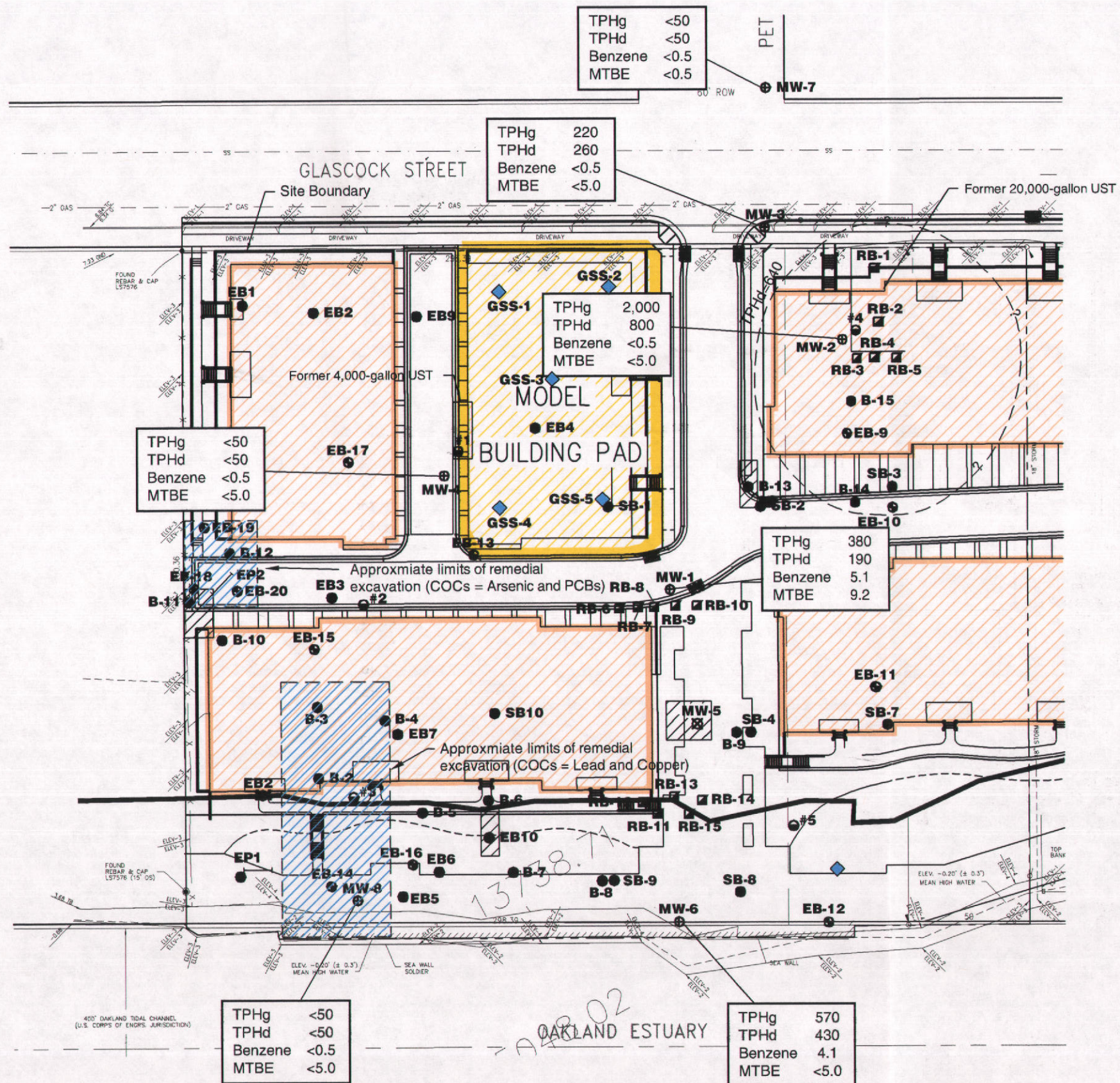
© 2000 Thomas Bros. Maps

3103\*EB

**VICINITY MAP**  
 2901 GLASCOCK STREET  
 Oakland, California

**LOWNEY ASSOCIATES**  
 Environmental/Geotechnical/Engineering Services

**FIGURE 1**  
 1731-2G



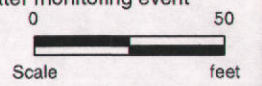
APPROXIMATE DIRECTION OF GROUND WATER FLOW



**LEGEND**

- ◆ - Approximate location of soil test pit
- - Approximate location of exploratory boring (Lowney 2002)
- ⊙ - Approximate location of exploratory boring (Lowney 2001)
- ⊕ - Approximate location of extraction/monitoring well
- △ - Approximate location of soil vapor boring
- ▣ - Approximate location of remediation boring (1999)
- - Approximate location of soil sample (1995)
- - Approximate location of test pit (1995)
- - Approximate location of soil sample (1993)
- ⊗ - Approximate location of destroyed ground water monitoring well
- ▨ - Soil excavation areas (1996)
- - - Ground water concentrations exceeding ecological cleanup goals February, 2003
- ▨ - Approximate extent of soil removal areas
- ▨ - Building Pad

Note:  
Analytical results in parts per billion  
Ground water results from February 2003 ground water monitoring event

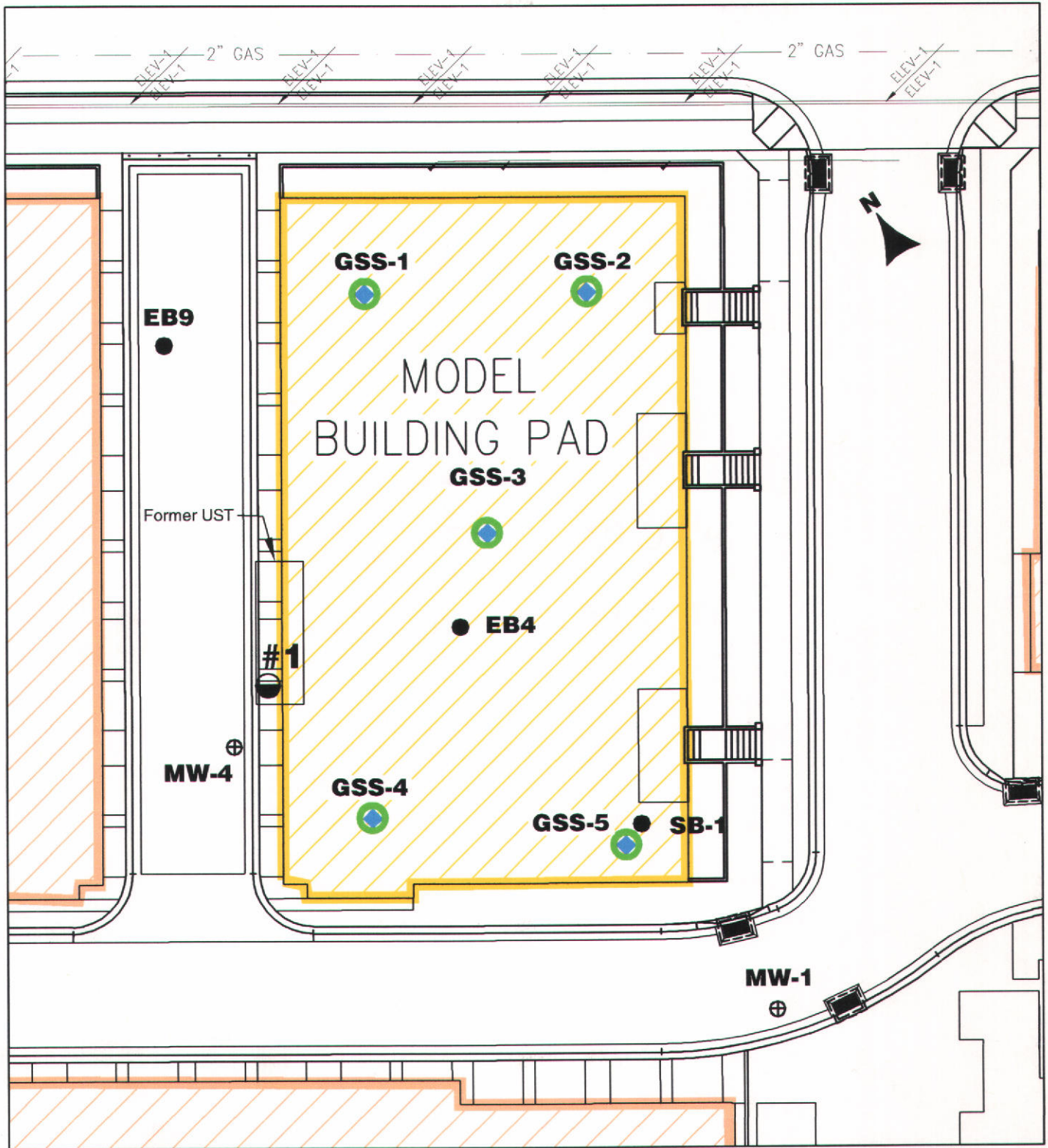


**SITE PLAN**  
2901 GLASCOCK STREET  
Oakland, California

**LOWNEY ASSOCIATES**  
Environmental/Geotechnical/Engineering Services

**FIGURE 2**  
1731-2G

Base by KCA Engineers.



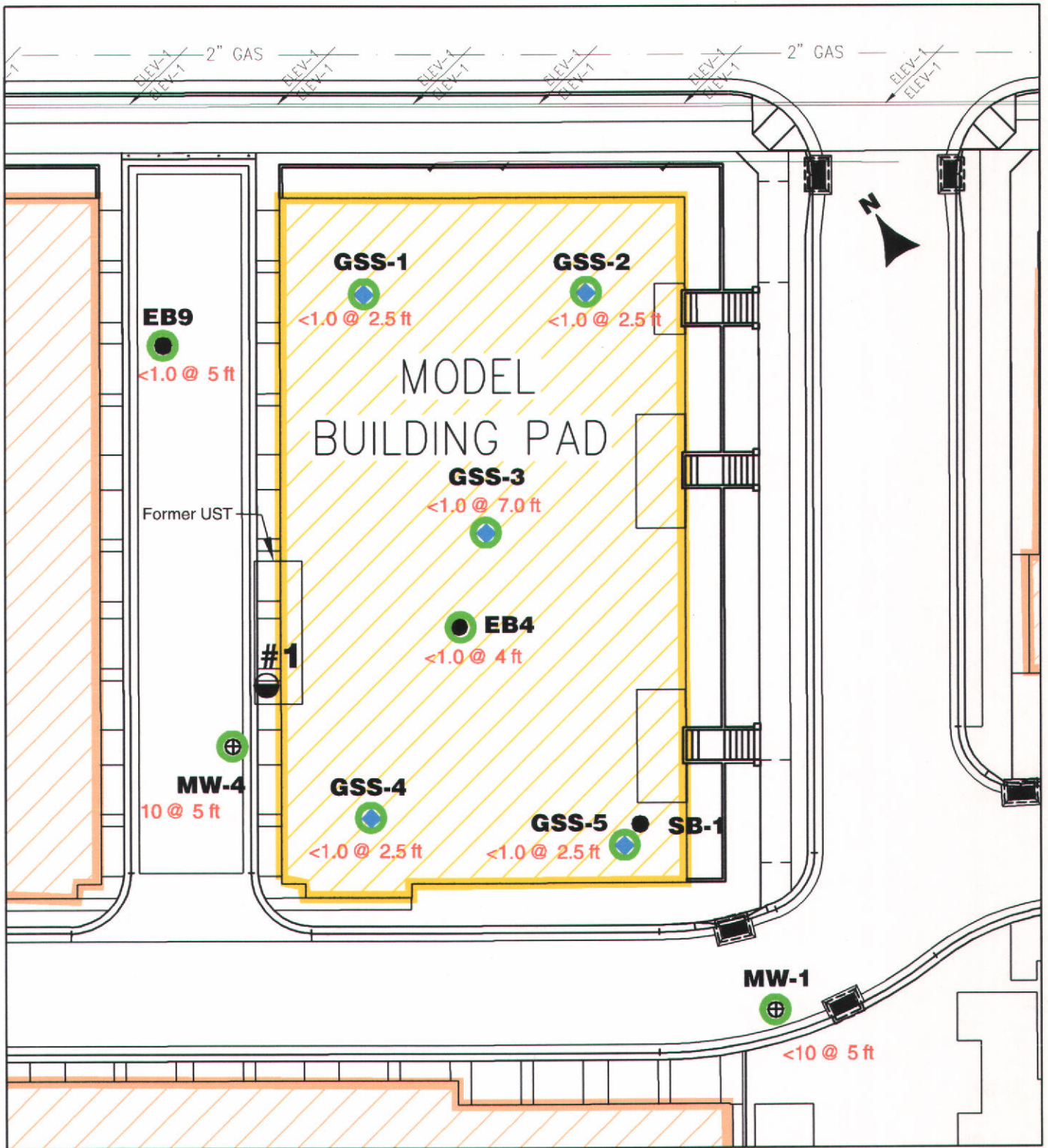
**LEGEND**

- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ⊗ - Approximate location of destroyed ground water monitoring well
- - Soil sample location with background concentrations of metals or below cleanup goals, PNAs and PCBs not detected



**METAL, PNA, AND PCB RESULTS IN SOILS**

2901 GLASCOCK STREET  
Oakland, California



**LEGEND**

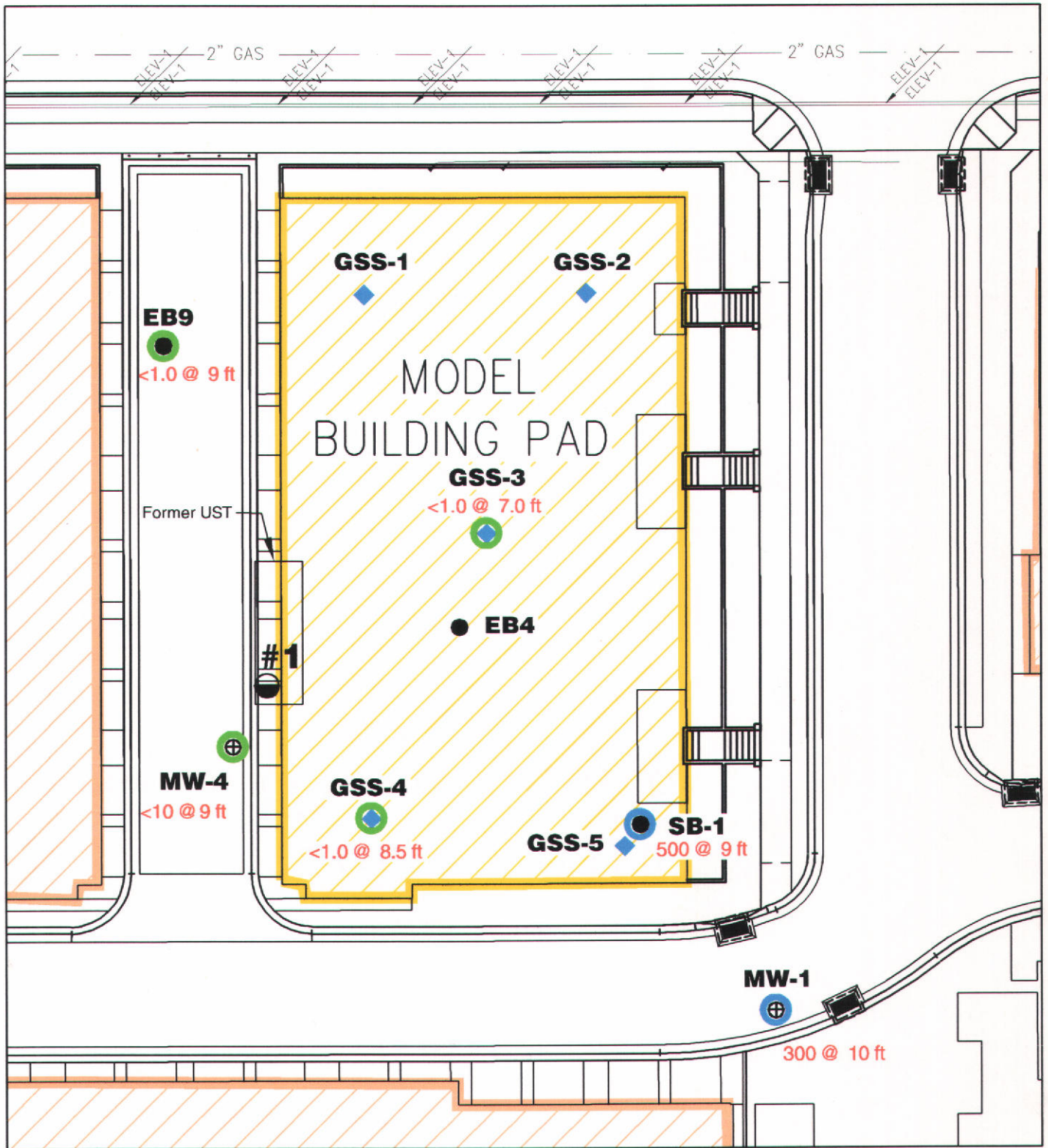
- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ⊗ - Approximate location of destroyed ground water monitoring well
- - TPHD, 0 to 7 feet, ND to 100 ppm



**TPHD DETECTED IN SOIL, 0 TO 7 FEET**

2901 GLASCOCK STREET  
Oakland, California





**LEGEND**

- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ⊗ - Approximate location of destroyed ground water monitoring well
- (green) - TPHD, 0 to 7 feet, ND to 100 ppm
- (blue) - TPHD, 0 to 7 feet, >101 to 500 ppm

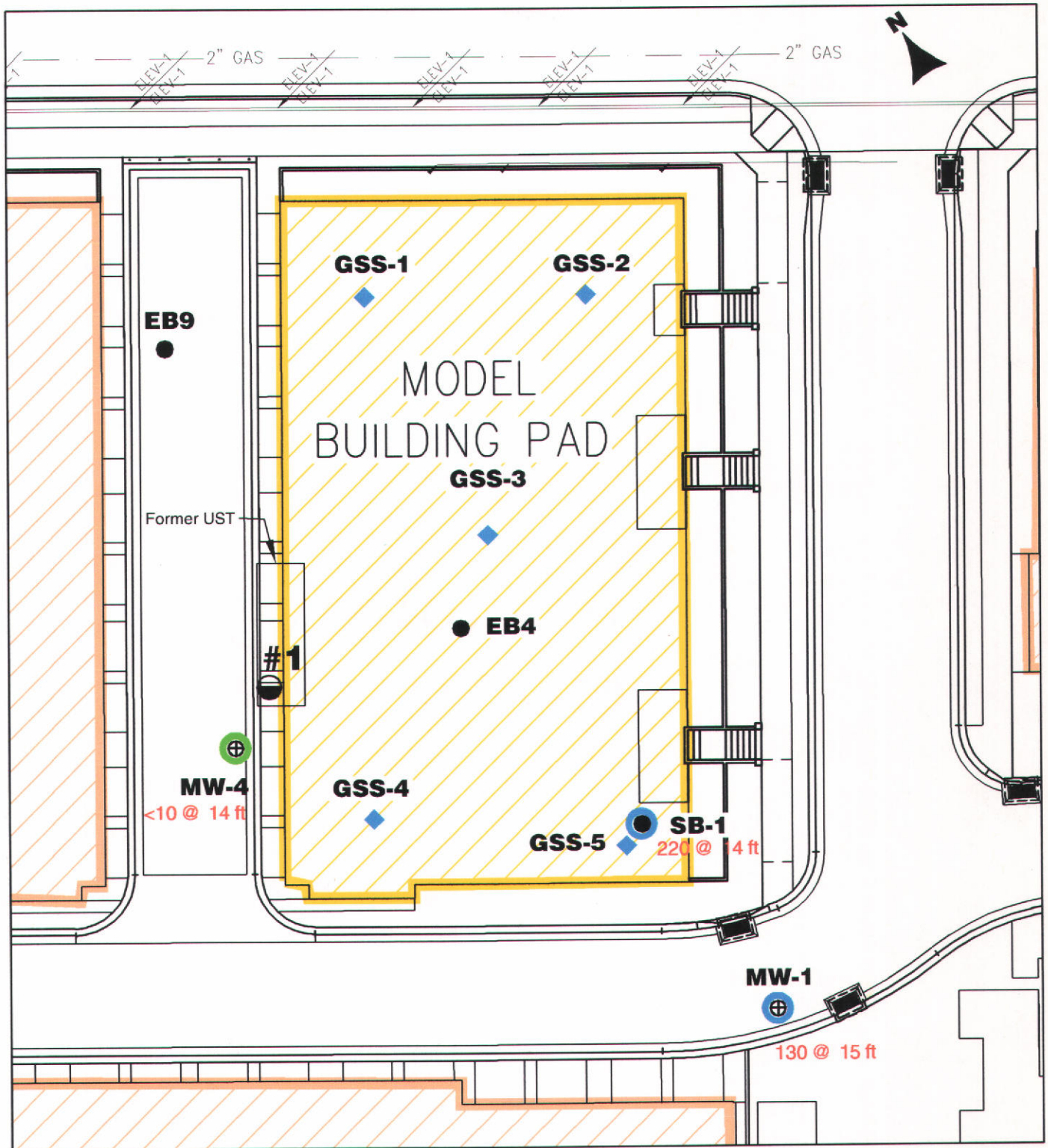


**TPHD DETECTED IN SOIL, 7 TO 10 FEET**

2901 GLASCOCK STREET  
Oakland, California

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Environmental/Geotechnical/Engineering Services

**FIGURE 5**  
1731-2G



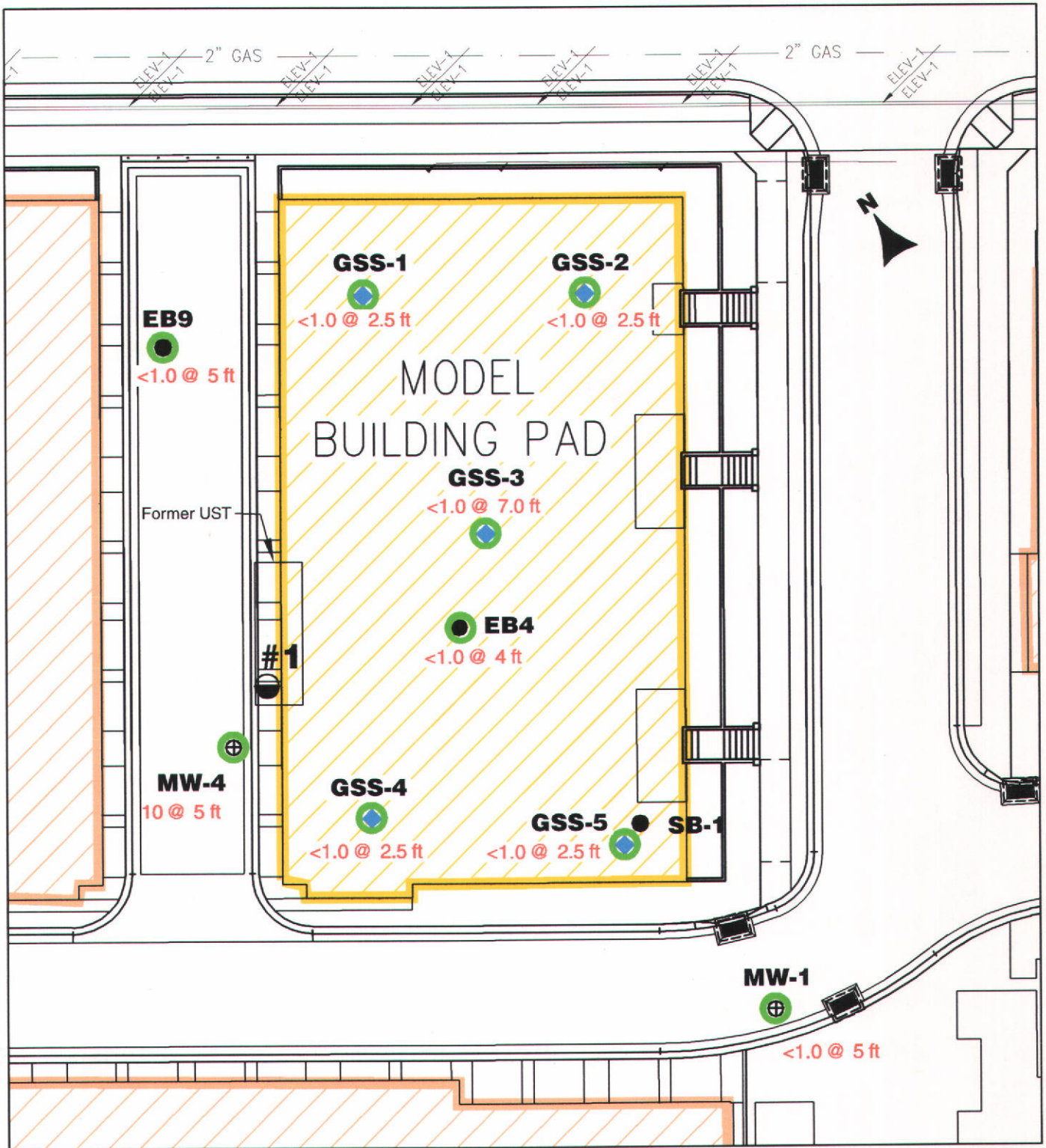
**LEGEND**

- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ☒ - Approximate location of destroyed ground water monitoring well
- ⊕ - TPHD, 0 to 7 feet, ND to 100 ppm
- ⊙ - TPHD, 0 to 7 feet, >101 to 500 ppm



**TPHD DETECTED IN SOIL, 10 TO 16 FEET**

2901 GLASCOCK STREET  
Oakland, California



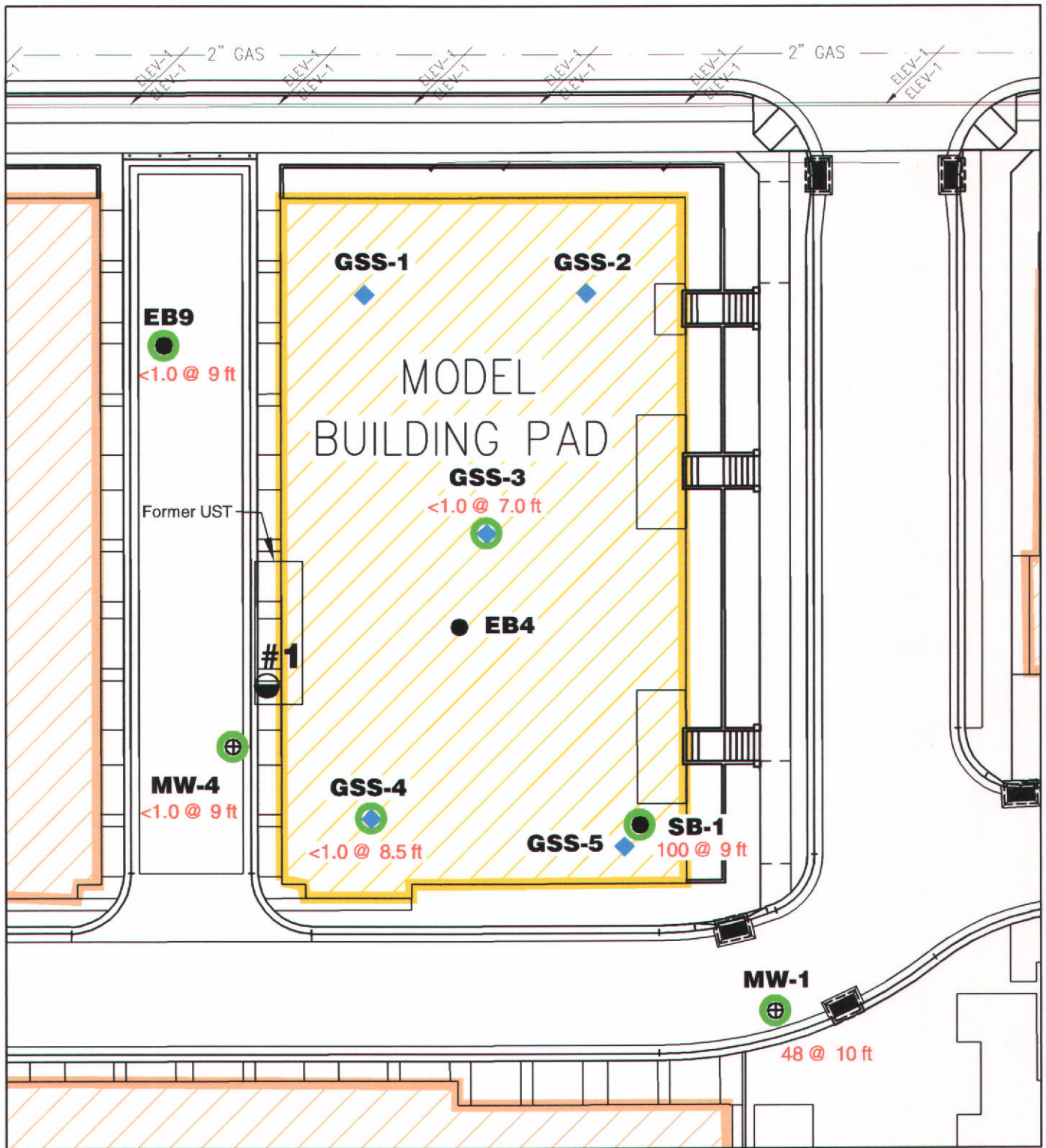
**LEGEND**

- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ☒ - Approximate location of destroyed ground water monitoring well
- - TPHG, 0 to 7 feet, ND to 100 ppm  
Note: Benzene was not detected



**TPHG AND BENZENE DETECTED IN SOIL,  
0 TO 7 FEET**

2901 GLASCOCK STREET  
Oakland, California



**LEGEND**

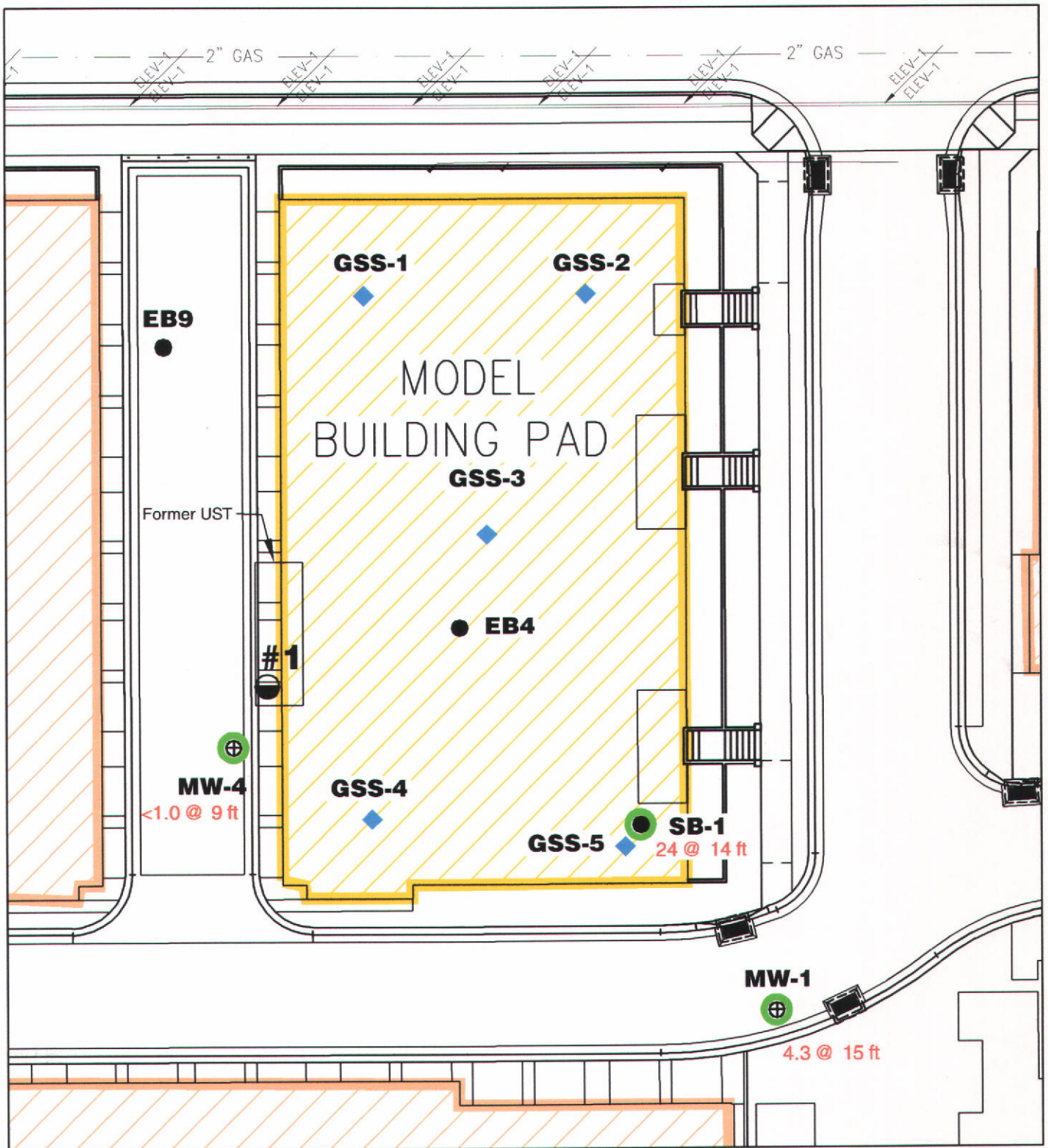
- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ☒ - Approximate location of destroyed ground water monitoring well
- - TPHG, 7 to 10 feet, ND to 100 ppm  
Note: Benzene was not detected



**TPHG AND BENZENE DETECTED IN SOIL,**

**7 TO 10 FEET**

**2901 GLASCOCK STREET  
Oakland, California**



**LEGEND**

- ◆ - Approximate location of soil test pit
- - Approximate location of soil sample (1995)
- ⊗ - Approximate location of destroyed ground water monitoring well
- ⊕ - TPHG, 10 to 16 feet, ND to 100 ppm  
Note: Benzene was not detected



**TPHG AND BENZENE DETECTED IN SOIL,  
10 TO 16 FEET**  
2901 GLASCOCK STREET  
Oakland, California

**ATTACHMENT A  
ANALYTICAL DATA SHEETS**

Gas/BTEX Compounds by 8015M/8021

Looney & Associates Oakland  
Attn.: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/03/2003 15:38

Samples Reported

Sample Name	Date Sampled	Matrix	Log #
GSS-1	09/02/2003	Soil	1
GSS-2	09/02/2003	Soil	2
GSS-3	09/02/2003	Soil	3
GSS-4 & 2 1/2	09/02/2003	Soil	4
GSS-4 & 1/2-3	09/02/2003	Soil	5

Gas/BTEX Compounds by 8015M/8021

Looney & Associates Oakland  
Attn.: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

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Prep(s)	Test(s)
5035	8015M
5035	8021B
Sample ID: GSS-1	Lab ID: 2003-09-0068-1
Sampled: 09/02/2003	Extracted: 09/02/2003 11:48
Matrix: Soil	QC Batch#: 20030904-0104

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/04/2003 11:48	
Benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 11:48	
Toluene	ND	0.0050	mg/Kg	1.00	09/04/2003 11:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 11:48	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/04/2003 11:48	
MTEB	ND	0.0050	mg/Kg	1.00	09/04/2003 11:48	
Surrogate(s)						
Trifluorotoluene	83.3	83-125	%	1.00	09/04/2003 11:48	
4-Bromofluorobenzene-FID	86.5	86-124	%	1.00	09/04/2003 11:48	

Gas/BTEX Compounds by 8015M/8021

Looney & Associates Oakland  
Attn.: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/03/2003 15:38

Prep(s)	Test(s)
5035	8015M
5035	8021B
Sample ID: GSS-2	Lab ID: 2003-09-0068-2
Sampled: 09/02/2003	Extracted: 09/02/2003 12:15
Matrix: Soil	QC Batch#: 20030904-0104

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/04/2003 12:15	
Benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 12:15	
Toluene	ND	0.0050	mg/Kg	1.00	09/04/2003 12:15	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 12:15	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/04/2003 12:15	
MTEB	ND	0.0050	mg/Kg	1.00	09/04/2003 12:15	
Surrogate(s)						
Trifluorotoluene	85.3	83-125	%	1.00	09/04/2003 12:15	
4-Bromofluorobenzene-FID	88.1	86-124	%	1.00	09/04/2003 12:15	

Gas/BTEX Compounds by 8015M/8021

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Prep(s)	Test(s)
5035	8015M
5035	8021B
Sample ID: GSS-3	Lab ID: 2003-09-0068-3
Sampled: 09/02/2003	Extracted: 09/02/2003 12:15
Matrix: Soil	QC Batch#: 20030904-0104

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/04/2003 12:43	
Benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 12:43	
Toluene	ND	0.0050	mg/Kg	1.00	09/04/2003 12:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 12:43	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/04/2003 12:43	
MTEB	ND	0.0050	mg/Kg	1.00	09/04/2003 12:43	
Surrogate(s)						
Trifluorotoluene	69.4	83-125	%	1.00	09/04/2003 12:43	
4-Bromofluorobenzene-FID	68.8	86-124	%	1.00	09/04/2003 12:43	

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland  
Attn: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
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Received: 09/03/2003 16:35

Project: 8038 8039	Test(s): 8015M 8021B
Sample ID: GSS-4 1/2-9	Lab ID: 2003-09-0065-4
Sampled: 09/02/2003	Extracted: 09/02/2003
Matrix: Soil	QC Batch #: 2003/09/04-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/04/2003 13:10	
Benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 13:10	
Toluene	ND	0.0050	mg/Kg	1.00	09/04/2003 13:10	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 13:10	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/04/2003 13:10	
MTBE	ND	0.0050	mg/Kg	1.00	09/04/2003 13:10	
Surrogate(s)						
Trifluorotoluene	88.0	53-125	%	1.00	09/04/2003 13:10	
4-Bromofluorobenzene-FID	89.4	53-125	%	1.00	09/04/2003 13:10	

Severn Trent Laboratories, Inc.  
STL San Francisco • 1220 Quarry Lane, Pleasanton, CA 94566  
Tel 925 494 1919 Fax 925 484 1095 • www.stl-lab.com • CA DHS ELAP# 2496

09/04/2003 16:14

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland  
Attn: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/03/2003 16:35

Project: 8038 8039	Test(s): 8015M 8021B
Sample ID: GSS-4 1/2-9	Lab ID: 2003-09-0065-4
Sampled: 09/02/2003	Extracted: 09/02/2003
Matrix: Soil	QC Batch #: 2003/09/04-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/04/2003 13:37	
Benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 13:37	
Toluene	ND	0.0050	mg/Kg	1.00	09/04/2003 13:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/04/2003 13:37	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/04/2003 13:37	
MTBE	ND	0.0050	mg/Kg	1.00	09/04/2003 13:37	
Surrogate(s)						
Trifluorotoluene	101.7	53-125	%	1.00	09/04/2003 13:37	
4-Bromofluorobenzene-FID	85.7	53-124	%	1.00	09/04/2003 13:37	

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland  
Attn: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
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Received: 09/03/2003 16:35

Project: 8038 Method Blank	Test(s): 8015M QC Batch # 2003/09/04-01.04
Lab ID: 2003/09/04-01.04-004	QC Batch #: 2003/09/04-01.04
Matrix: Soil	QC Batch #: 2003/09/04-01.04
Sampled: 09/02/2003	Extracted: 09/02/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/04/2003 09:28	
Benzene	ND	0.0050	mg/Kg	09/04/2003 09:28	
Toluene	ND	0.0050	mg/Kg	09/04/2003 09:28	
Ethyl benzene	ND	0.0050	mg/Kg	09/04/2003 09:28	
Xylene(s)	ND	0.0050	mg/Kg	09/04/2003 09:28	
MTBE	ND	0.0050	mg/Kg	09/04/2003 09:28	
Surrogate(s)					
Trifluorotoluene	88.5	53-125	%	09/04/2003 09:28	
4-Bromofluorobenzene-FID	89.2	53-124	%	09/04/2003 09:28	

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland  
Attn: Peter Langtry  
167 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
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Project: 8038 Laboratory Control Spike	Test(s): 8015M QC Batch # 2003/09/04-01.04
Lab ID: 2003/09/04-01.04-005	QC Batch #: 2003/09/04-01.04
Matrix: Soil	QC Batch #: 2003/09/04-01.04
Sampled: 09/02/2003	Extracted: 09/02/2003

Compound	Conc.		Exp. Conc.	Recovery %		RPD	C/L Limits %		Flags
	LCS	LCSD		LCS	LCSD		Rec.	RPD	
Benzene	0.0945	0.0921	0.1000	94.5	92.1	2.5	77-123	35	
Toluene	0.0988	0.0933	0.1000	98.8	93.3	3.5	70-130	35	
Ethyl benzene	0.0947	0.0925	0.1000	94.7	92.5	2.4	78-126	35	
Xylene(s)	0.280	0.289	0.300	93.3	96.7	3.8	78-126	35	
Surrogate(s)									
Trifluorotoluene	485	488	500	96.6	97.6	3.0	53-125		

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Gas/BTEX Compounds by 8015M/8021

Lowrey & Associates Oakland  
Attn.: Peter Langtry  
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Oakland, Ca 94607  
Phone: (510) 267-1870 Fax: (510) 267-1872  
Project: 1731-2G  
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Received: 09/03/2003 15:35

Batch QC Record									
Prep(s): 8035					Issue: 8015M				
Laboratory Control Spike			Soil			QC Batch # 2003/09/04-01.04			
GCs	2003/09/04-01.04-007	Extracted: 08/04/2003	Analyzed: 09/04/2003 10:48						
LCSD	2003/09/04-01.04-008	Extracted: 08/04/2003	Analyzed: 09/04/2003 11:15						
Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Chl. Info %		Flags
	LC8	LC8D		LC8	LC8D		%	Rec.	
Gasoline	0.473	0.460	0.600	94.6	92.0	2.8	75-126	35	
Styrofoam(s)									
4-Bromobromobenzene-FID	530	523	500	108.0	104.6		88-124		

**Metals**

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Received: 09/03/2003 16:35

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
GSS-1	09/02/2003	Soil	1
GSS-2	09/02/2003	Soil	2
GSS-3	09/02/2003	Soil	3
GSS-4 2 1/2	09/02/2003	Soil	4
GSS-4 8 1/2-8	09/02/2003	Soil	5

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Received: 09/03/2003 16:35

Prep ID: 80202003	Test(s): 6020
Sample ID: GSS-1	Lab ID: 2003-09-0066
Sampled: 09/02/2003	Extracted: 09/02/2003 17:10
Matrix: Soil	QC Batch#: 20030903-02-18
Analysis Flag: (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Arsenic	2.1	1.0	mg/Kg	1.00	09/04/2003 10:51	
Cadmium	ND	0.50	mg/Kg	1.00	09/04/2003 10:51	
Copper	12	1.0	mg/Kg	1.00	09/04/2003 10:51	
Lead	2.7	1.0	mg/Kg	1.00	09/04/2003 10:51	

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Received: 09/03/2003 16:36

Prep ID: 80202003	Test(s): 6020
Sample ID: GSS-3	Lab ID: 2003-09-0066-2
Sampled: 09/02/2003	Extracted: 09/02/2003 17:10
Matrix: Soil	QC Batch#: 20030903-02-18
Analysis Flag: (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Arsenic	2.1	1.0	mg/Kg	1.00	09/04/2003 11:02	
Cadmium	ND	0.50	mg/Kg	1.00	09/04/2003 11:02	
Copper	8.8	1.0	mg/Kg	1.00	09/04/2003 11:02	
Lead	2.8	1.0	mg/Kg	1.00	09/04/2003 11:02	

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Received: 09/03/2003 16:36

Prep ID: 80202003	Test(s): 6020
Sample ID: GSS-3	Lab ID: 2003-09-0066
Sampled: 09/02/2003	Extracted: 09/02/2003 17:10
Matrix: Soil	QC Batch#: 20030903-02-18
Analysis Flag: (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Arsenic	7.7	1.0	mg/Kg	1.00	09/04/2003 11:09	
Cadmium	ND	0.50	mg/Kg	1.00	09/04/2003 11:09	
Copper	20	1.0	mg/Kg	1.00	09/04/2003 11:09	
Lead	5.5	1.0	mg/Kg	1.00	09/04/2003 11:09	

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Received: 09/03/2003 16:35

Prep(s): 8020/200.8 Test(s): 6020  
Sample ID: 08S-4 1/2-9 Lab ID: 2003-09-0065-4  
Sampled: 09/02/2003 Extracted: 09/02/2003 17:10  
Matrix: Soil GC Batch#: 2003/09/03-02-16  
Analysis Flag: none. (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Arsenic	1.8	1.0	mg/Kg	1.00	09/04/2003 11:17	
Cadmium	ND	0.50	mg/Kg	1.00	09/04/2003 11:17	
Copper	18	1.0	mg/Kg	1.00	09/04/2003 11:17	
Lead	3.8	1.0	mg/Kg	1.00	09/04/2003 11:17	

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Received: 09/03/2003 16:35

Prep(s): 8020/200.8 Test(s): 6020  
Sample ID: 08S-4 1/2-9 Lab ID: 2003-09-0065-5  
Sampled: 09/02/2003 Extracted: 09/02/2003 17:10  
Matrix: Soil GC Batch#: 2003/09/03-02-16  
Analysis Flag: none. (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Arsenic	3.0	1.0	mg/Kg	1.00	09/04/2003 11:30	
Cadmium	ND	0.50	mg/Kg	1.00	09/04/2003 11:30	
Copper	26	1.0	mg/Kg	1.00	09/04/2003 11:30	
Lead	4.0	1.0	mg/Kg	1.00	09/04/2003 11:30	

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Received: 09/03/2003 15:35

Prep(s): 3090B Test(s): 60160  
Method: Blank Soil GC Batch #: 2003/09/03-02-16  
Lab: 2003/09/03-02-16-001 Data Extracted: 09/02/2003 17:10  
Analysis Flag: none. (See Legend and Note Section)

Compound	Conc.	RL	Unit	Analyzed	Flag
Arsenic	ND	1.0	mg/Kg	09/04/2003 10:37	
Cadmium	ND	0.50	mg/Kg	09/04/2003 10:37	
Copper	ND	1.0	mg/Kg	09/04/2003 10:37	
Lead	ND	1.0	mg/Kg	09/04/2003 10:37	

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Received: 09/03/2003 16:35

Prep(s): 3090B Test(s): 60160  
Method: Blank Soil GC Batch #: 2003/09/03-02-16  
Lab: 2003/09/03-02-16-002 Data Extracted: 09/02/2003 17:10  
LCS# 2003/09/03-02-16-003 Extracted: 09/03/2003 Analyzed: 09/04/2003 10:37  
Analysis Flag: none. (See Legend and Note Section)

Compound	Conc.		Exp. Conc.	Recovery %		RPD	Cell Limits %		Flags
	LCS	LCSB		LCS	LCSB		%	Rec.	
Arsenic	ND	ND	100.0	0.0	0.0	0.0	80-120	20	
Cadmium	ND	ND	100.0	0.0	0.0	0.0	80-120	20	
Copper	ND	ND	100.0	0.0	0.0	0.0	80-120	20	
Lead	ND	ND	100.0	0.0	0.0	0.0	80-120	20	



PCBs

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Received: 09/03/2003 16:35

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
GSS-1	09/02/2003	Soil	1
GSS-2	09/02/2003	Soil	2
GSS-3	09/02/2003	Soil	3
GSS-4 2 1/2	09/02/2003	Soil	4
GSS-4 8 1/2	09/02/2003	Soil	5

PCBs

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Project: 1731-2G  
Deby

Received: 09/03/2003 16:35

Project: 1731-2G  
Sample ID: GSS-1  
Sampled: 09/02/2003  
Matrix: Soil  
Testar: 8082  
Lab ID: 2003-09-0065-1  
Extracted: 09/02/2003 13:39  
GC Batch: 20030903-0114

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1018	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Aroclor 1221	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Aroclor 1231	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Aroclor 1242	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Aroclor 1248	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Aroclor 1254	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Aroclor 1260	ND	50	ug/Kg	1.00	09/04/2003 12:35	
Surrogate(s)						
2,4,6-Tetrachloro-m-xylene	75.3	50-125	%	1.00	09/04/2003 12:35	
Decachlorobiphenyl (PCB/8082)	82.2	40-142	%	1.00	09/04/2003 12:35	

PCBs

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Project: 1731-2G  
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Received: 09/03/2003 16:35

Project: 1731-2G  
Sample ID: GSS-2  
Sampled: 09/02/2003  
Matrix: Soil  
Testar: 8082  
Lab ID: 2003-09-0065-2  
Extracted: 09/02/2003 13:39  
GC Batch: 20030903-0114

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1018	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Aroclor 1221	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Aroclor 1231	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Aroclor 1242	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Aroclor 1248	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Aroclor 1254	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Aroclor 1260	ND	50	ug/Kg	1.00	09/04/2003 12:59	
Surrogate(s)						
2,4,6-Tetrachloro-m-xylene	82.3	50-125	%	1.00	09/04/2003 12:59	
Decachlorobiphenyl (PCB/8082)	85.3	40-142	%	1.00	09/04/2003 12:59	

PCBs

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Project: 1731-2G  
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Received: 09/03/2003 16:35

Project: 1731-2G  
Sample ID: GSS-3  
Sampled: 09/02/2003  
Matrix: Soil  
Testar: 8082  
Lab ID: 2003-09-0065-3  
Extracted: 09/02/2003 13:39  
GC Batch: 20030903-0114

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1018	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Aroclor 1221	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Aroclor 1231	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Aroclor 1242	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Aroclor 1248	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Aroclor 1254	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Aroclor 1260	ND	50	ug/Kg	1.00	09/04/2003 13:24	
Surrogate(s)						
2,4,6-Tetrachloro-m-xylene	73.2	50-125	%	1.00	09/04/2003 13:24	
Decachlorobiphenyl (PCB/8082)	86.1	40-142	%	1.00	09/04/2003 13:24	

PCBs

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Project: 1791-26  
Dairy

Received: 09/03/2003 16:35

Prep(s): 3850/8082	Test(s): 8082
Sample ID: 688-4 2 1/2	Lab ID: 2003-09-0068-4
Sampled: 09/02/2003	Extracted: 09/2/2003 13:36
Matrix: Soil	QC Batch#: 20030903-01-14

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1018	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Aroclor 1221	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Aroclor 1232	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Aroclor 1242	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Aroclor 1248	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Aroclor 1254	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Aroclor 1260	ND	50	ug/Kg	1.00	09/04/2003 13:49	
Surrogate(s)						
2,4,6,8-Tetrachloro-m-xylene	74.3	50-125	%	1.00	09/04/2003 13:49	
Decachlorobiphenyl (PCB/8082)	86.2	48-142	%	1.00	09/04/2003 13:49	

PCBs

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Project: 1791-26  
Dairy

Received: 09/03/2003 16:35

Prep(s): 3850/8082	Test(s): 8082
Sample ID: 688-4 B 1/2-4	Lab ID: 2003-09-0068-4
Sampled: 09/02/2003	Extracted: 09/2/2003 13:36
Matrix: Soil	QC Batch#: 20030903-01-14

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1018	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Aroclor 1221	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Aroclor 1232	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Aroclor 1242	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Aroclor 1248	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Aroclor 1254	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Aroclor 1260	ND	50	ug/Kg	1.00	09/04/2003 14:13	
Surrogate(s)						
2,4,6,8-Tetrachloro-m-xylene	74.3	50-125	%	1.00	09/04/2003 14:13	
Decachlorobiphenyl (PCB/8082)	86.0	48-142	%	1.00	09/04/2003 14:13	

PCBs

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Project: 1791-26  
Dairy

Received: 09/03/2003 16:35

Prep(s): 3850/8082	Test(s): 8082
Method Blank	Lab ID: 2003-09-0068-4
QC Batch #: 20030903-01-14	QC Batch #: 20030903-01-14
Matrix: Soil	Extracted: 09/02/2003 13:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Aroclor 1018	ND	50	ug/Kg	09/04/2003 10:07	
Aroclor 1221	ND	50	ug/Kg	09/04/2003 10:07	
Aroclor 1232	ND	50	ug/Kg	09/04/2003 10:07	
Aroclor 1242	ND	50	ug/Kg	09/04/2003 10:07	
Aroclor 1248	ND	50	ug/Kg	09/04/2003 10:07	
Aroclor 1254	ND	50	ug/Kg	09/04/2003 10:07	
Aroclor 1260	ND	50	ug/Kg	09/04/2003 10:07	
Surrogate(s)					
2,4,6,8-Tetrachloro-m-xylene	85.7	50-125	%	09/04/2003 10:07	
Decachlorobiphenyl (PCB/8082)	87.0	48-142	%	09/04/2003 10:07	

PCBs

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Project: 1791-26  
Dairy

Received: 09/03/2003 16:35

Prep(s): 3850/8082	Test(s): 8082
Method Blank	Lab ID: 2003-09-0068-4
QC Batch #: 20030903-01-14	QC Batch #: 20030903-01-14
Matrix: Soil	Extracted: 09/02/2003 13:36

Compound	Conc.	ug/Kg	Exp. Conc.	Recovery %	RPD	CrL Limit %	Flags
	100%	LCSD	LCSD	LCSD	%	Rec.	RPD
Aroclor 1018	61.4	64.9	89.7	81.8	97.4	0.1	65-135 30
Aroclor 1260	85.1	68.9	88.7	87.8	103.5	8.0	65-135 30
Surrogate(s)							
2,4,6,8-Tetrachloro-m-xylene	42.0	49.2	84	83.9	85.5		50-125 0
Decachlorobiphenyl	49.3	54.8	80	88.7	109.1		48-142 0

TEPH w/ Silica Gel Clean-up

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Project: 1731-20  
Dairy

Received: 09/03/2003 16:35

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
GSS-1	09/02/2003	Soil	1
GSS-2	09/02/2003	Soil	2
GSS-3	09/02/2003	Soil	3
GSS-4 2 1/2	09/02/2003	Soil	4
GSS-4 8 1/2	09/02/2003	Soil	5

TEPH w/ Silica Gel Clean-up

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Project: 1731-20  
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Received: 09/03/2003 16:35

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/04/2003 10:42	
Motor Oil	ND	50	mg/Kg	1.00	09/04/2003 10:42	
Surrogate(s) o-Terphenyl	82.6	50-150	%	1.00	09/04/2003 10:42	

TEPH w/ Silica Gel Clean-up

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Project: 1731-20  
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Received: 09/03/2003 16:35

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/04/2003 11:43	
Motor Oil	ND	50	mg/Kg	1.00	09/04/2003 11:43	
Surrogate(s) o-Terphenyl	87.6	50-150	%	1.00	09/04/2003 11:43	

TEPH w/ Silica Gel Clean-up

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Received: 09/03/2003 16:35

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/04/2003 12:14	
Motor Oil	ND	50	mg/Kg	1.00	09/04/2003 12:14	
Surrogate(s) o-Terphenyl	86.7	50-150	%	1.00	09/04/2003 12:14	

TEPH w/ Silica Gel Clean-up

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Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-23  
Dairy

Received: 09/03/2003 15:35

Prep(s): 3550/0015M Test(s): 8015M  
Sample ID: GSS-4.4.174 Lab ID: 2003-09-0065-4  
Sampled: 09/02/2003 Extracted: 09/02/2003 18:23  
Matrix: Sol QC Batch#: 20030903-06.10

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/kg	1.00	09/04/2003 12:44	
Motor Oil	ND	50	mg/kg	1.00	09/04/2003 12:44	
Surrogate(s) o-Terphenyl	80.0	50-150	%	1.00	09/04/2003 12:44	

TEPH w/ Silica Gel Clean-up

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Project: 1731-23  
Dairy

Received: 09/03/2003 15:35

Prep(s): 3550/0015M Test(s): 8015M  
Sample ID: GSS-4.8.174-9 Lab ID: 2003-09-0065-9  
Sampled: 09/02/2003 Extracted: 09/02/2003 18:23  
Matrix: Sol QC Batch#: 20030903-06.10

Compound	Conc	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/kg	1.00	09/04/2003 11:11	
Motor Oil	ND	50	mg/kg	1.00	09/04/2003 11:11	
Surrogate(s) o-Terphenyl	78.4	50-150	%	1.00	09/04/2003 11:11	



**Polynuclear Aromatic Hydrocarbons (PNA)**

Lowrey & Associates Oakland  
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 Oakland, CA 94607  
 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Dredge

Received: 09/03/2003 15:35

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lgt #
GSS-1	09/02/2003	Soil	1
GSS-2	09/02/2003	Soil	2
GSS-3	09/02/2003	Soil	3
GSS-4 & 1/2	09/02/2003	Soil	4
GSS-4 & 1/2, 3	09/02/2003	Soil	5

**Polynuclear Aromatic Hydrocarbons (PNA)**

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 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Dredge

Received: 09/03/2003 15:35

Compound	Concn	RL	Unit	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	09/04/2003 15:53	
Acenaphthylene	ND	10	ug/Kg	1.00	09/04/2003 15:53	
Acenaphthene	ND	10	ug/Kg	1.00	09/04/2003 15:53	
Fluorene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Phenanthrene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Chrysene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 15:53	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	09/04/2003 15:53	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	09/04/2003 15:53	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	09/04/2003 15:53	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	1.00	09/04/2003 15:53	

**Polynuclear Aromatic Hydrocarbons (PNA)**

Lowrey & Associates Oakland  
 Attn: Peter Langtry  
 167 Filbert Street  
 Oakland, CA 94607  
 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Dredge

Received: 09/03/2003 15:35

Compound	Concn	RL	Unit	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	09/04/2003 14:21	
Acenaphthylene	ND	10	ug/Kg	1.00	09/04/2003 14:21	
Acenaphthene	ND	10	ug/Kg	1.00	09/04/2003 14:21	
Fluorene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Phenanthrene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Chrysene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 14:21	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	09/04/2003 14:21	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	09/04/2003 14:21	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	09/04/2003 14:21	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	1.00	09/04/2003 14:21	

**Polynuclear Aromatic Hydrocarbons (PNA)**

Lowrey & Associates Oakland  
 Attn: Peter Langtry  
 167 Filbert Street  
 Oakland, CA 94607  
 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Dredge

Received: 09/03/2003 15:35

Compound	Concn	RL	Unit	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	09/04/2003 14:41	
Acenaphthylene	ND	10	ug/Kg	1.00	09/04/2003 14:41	
Acenaphthene	ND	10	ug/Kg	1.00	09/04/2003 14:41	
Fluorene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Phenanthrene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Chrysene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 14:41	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	09/04/2003 14:41	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	09/04/2003 14:41	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	09/04/2003 14:41	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	1.00	09/04/2003 14:41	

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
Attn: Peter Langtry  
167 Filbert Street  
Oakland, CA 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-20  
Dairy

Received: 09/03/2003 16:35

Project: 3550/8310 Test(s): 8310  
Sample ID: GSS-4 2 1/2 Lab ID: 2003-09-0065-4  
Sample: 09/02/2003 Extracted: 9/3/2003 16:49  
Metric: Soil QC Batch#: 20030903-01-18

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	09/04/2003 16:01	
Acenaphthylene	ND	10	ug/Kg	1.00	09/04/2003 16:01	
Acenaphthene	ND	10	ug/Kg	1.00	09/04/2003 16:01	
Fluorene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Phenanthrene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Chrysene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Benzo(e)pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 16:01	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	09/04/2003 16:01	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	09/04/2003 16:01	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	09/04/2003 16:01	
Surrogate(s)						
1-Methyl naphthalene	NA	50-100	%	1.00	09/04/2003 16:01	

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
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167 Filbert Street  
Oakland, CA 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-20  
Dairy

Received: 09/03/2003 16:35

Project: 3550/8310 Test(s): 8310  
Sample ID: GSS-4 2 1/2 Lab ID: 2003-09-0065-4  
Sample: 09/02/2003 Extracted: 9/3/2003 16:49  
Metric: Soil QC Batch#: 20030903-01-18

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	09/04/2003 16:21	
Acenaphthylene	ND	10	ug/Kg	1.00	09/04/2003 16:21	
Acenaphthene	ND	10	ug/Kg	1.00	09/04/2003 16:21	
Fluorene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Phenanthrene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Chrysene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Benzo(e)pyrene	ND	5.0	ug/Kg	1.00	09/04/2003 16:21	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	09/04/2003 16:21	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	09/04/2003 16:21	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	09/04/2003 16:21	
Surrogate(s)						
1-Methyl naphthalene	NA	50-100	%	1.00	09/04/2003 16:21	

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
Attn: Peter Langtry  
167 Filbert Street  
Oakland, CA 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-20  
Dairy

Received: 09/03/2003 16:35

Method: GC Report  
Project: 3550/8310 Test(s): 8310  
Method Blank Soil QC Batch#: 20030903-01-18  
Metric: Soil Date Extracted: 09/03/2003 16:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Naphthalene	ND	15.0	ug/Kg	09/04/2003 12:12	
Acenaphthylene	ND	10	ug/Kg	09/04/2003 12:12	
Acenaphthene	ND	10	ug/Kg	09/04/2003 12:12	
Fluorene	ND	5.0	ug/Kg	09/04/2003 12:12	
Phenanthrene	ND	5.0	ug/Kg	09/04/2003 12:12	
Anthracene	ND	5.0	ug/Kg	09/04/2003 12:12	
Fluoranthene	ND	5.0	ug/Kg	09/04/2003 12:12	
Pyrene	ND	5.0	ug/Kg	09/04/2003 12:12	
Benzo(a)anthracene	ND	5.0	ug/Kg	09/04/2003 12:12	
Chrysene	ND	5.0	ug/Kg	09/04/2003 12:12	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	09/04/2003 12:12	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	09/04/2003 12:12	
Benzo(e)pyrene	ND	5.0	ug/Kg	09/04/2003 12:12	
Dibenzo(a,h)anthracene	ND	10.0	ug/Kg	09/04/2003 12:12	
Benzo(g,h,i)perylene	ND	10.0	ug/Kg	09/04/2003 12:12	
Indeno(1,2,3-cd)pyrene	ND	10.0	ug/Kg	09/04/2003 12:12	
Surrogate(s)					
1-Methyl naphthalene	65.7	50-100	%	09/04/2003 12:12	

**CHAIN OF CUSTODY RECORD**

Project Name: Derby

Job No.: 1731-2G

Report To: Peter Langtry

Sampler (print): Charles Mettler

Sampler (signature): [Signature]

Electronic Deliverable Format Required:  YES  NO

EDF LOGCODE:  LAMV  LAO  LAF

Global ID #:

Turnaround Requirements

5 Working Days

48 Hours

24 Hours

2-3 Hours RUSH

\_\_\_\_\_

QC Requirement:

Level A (standard)

Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	ANALYSES REQUESTED												Remarks		
						TPH as Gas (BTEX/MTBE) Method: <input checked="" type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260	TPH as Diesel (8015M) <input checked="" type="checkbox"/> add silica gel column <input type="checkbox"/> add Oil Range	TRPH (418.1) with silica gel column	Halogenated VOCs (former 8010 list) Method: <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> add BTEX	Organochlorine Pesticides (8081)	Metals: <input type="checkbox"/> As, Pb, Hg <input type="checkbox"/> 17 CAM <i>Please filter water samples before preserve</i>	Fuel Oxygenates (MTBE, ETBE, TAME, DIPE, TBA, 1,2-DCA, and EDB) by 8260	PAHs (8310)	PCBs (8082)	<u>Pb, As, Cd, Cu</u>					
GSS-1	9-2-03			soil	1	✓	✓													
GSS-2	↓			↓	↓	✓	✓							✓	✓	✓				
GSS-3	↓			↓	↓	✓	✓							✓	✓	✓				
GSS-4 2 1/2	↓			↓	↓	✓	✓							✓	✓	✓				
GSS-4 8 1/2-9	↓			↓	↓	✓	✓							✓	✓	✓				

Relinquished By: <u>[Signature]</u>	Date: <u>9-3-03</u> Time: <u>6:50</u>	Received By: <u>[Signature]</u>	Date: <u>9-5-03</u> Time: <u>050</u>	PM Initial:
Relinquished By: <u>[Signature]</u>	Date: _____ Time: _____	Received By: _____	Date: _____ Time: _____	
Relinquished By: _____	Date: _____ Time: _____	Lab of Record: _____	Date: _____ Time: _____	Temp: _____
		Received by Lab: _____	Date: _____ Time: _____	

Gas/BTEX Compounds by 8016M/8021

Lowney & Associates Oakland  
Attn.: Peter Langtry  
187 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/04/2003 17:41

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
GSS-5	09/04/2003	Soil	1

Gas/BTEX Compounds by 8016M/8021

Lowney & Associates Oakland  
Attn.: Peter Langtry  
187 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/04/2003 17:41

Project:	8038	Test(s):	8016M
	8038		8021B
Sample ID:	GSS-5	Lab ID:	2003-09-0126 - 1
Sampled:	09/04/2003	Extracted:	09/05/2003 11:39
Matrix:	Soil	QC Batch#:	2003/09/05-01/04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/08/2003 11:39	
Benzene	ND	0.0050	mg/Kg	1.00	09/08/2003 11:39	
Toluene	ND	0.0050	mg/Kg	1.00	09/08/2003 11:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/08/2003 11:39	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/08/2003 11:39	
MTBE	ND	0.0050	mg/Kg	1.00	09/08/2003 11:39	
Surrogate(s)						
Trifluorotoluene	84.3	53-125	%	1.00	09/08/2003 11:39	
4-Bromofluorobenzene-FID	82.5	53-124	%	1.00	09/08/2003 11:39	

Gas/BTEX Compounds by 8016M/8021

Lowney & Associates Oakland  
Attn.: Peter Langtry  
187 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/04/2003 17:41

Batch/QC Report						
Project:	8038	Test(s):	8016M			
Method:	Blank	Matrix:	Soil	QC Batch #	2003/09/05-01/04	
Method:	2003/09/05-01/04-003	Date Extracted:	09/05/2003 08:15			
Compound	Conc.	RL	Unit	Analyzed	Flag	
Gasoline	ND	1.0	mg/Kg	09/08/2003 08:16		
Benzene	ND	0.0050	mg/Kg	09/08/2003 08:16		
Toluene	ND	0.0050	mg/Kg	09/08/2003 08:16		
Ethyl benzene	ND	0.0050	mg/Kg	09/08/2003 08:16		
Xylene(s)	ND	0.0050	mg/Kg	09/08/2003 08:16		
MTBE	ND	0.0050	mg/Kg	09/08/2003 08:16		
Surrogate(s)						
Trifluorotoluene	83.4	53-125	%	09/08/2003 08:16		
4-Bromofluorobenzene-FID	102.2	53-124	%	09/08/2003 08:16		

Gas/BTEX Compounds by 8016M/8021

Lowney & Associates Oakland  
Attn.: Peter Langtry  
187 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Derby

Received: 09/04/2003 17:41

Batch/QC Report										
Project:	8038	Test(s):	8016M							
Method:	Blank	Matrix:	Soil	QC Batch #	2003/09/05-01/04					
Method:	2003/09/05-01/04-003	Date Extracted:	09/05/2003	Analyzed:	09/08/2003 08:42					
Method:	2003/09/05-01/04-009	Date Extracted:	09/09/2003	Analyzed:	09/09/2003 08:10					
Compound	Conc.	mg/Kg	Exp. Conc.	Recovery %	RPD	ChlLmb %	Flags			
	LCS	LCSD	LCS	LCSD	%	Rec.	RPD	LCS	LCSD	
Benzene	0.0838	0.0931	0.1000	83.8	83.1	0.7	77-123	35		
Toluene	0.0971	0.0967	0.1000	97.1	95.7	1.5	70-122	35		
Ethyl benzene	0.0953	0.0958	0.1000	95.3	95.8	0.8	70-122	35		
Xylene(s)	0.283	0.284	0.300	94.3	94.7	0.4	75-128	35		
Surrogate(s)										
Trifluorotoluene	478	484	500	98.2	90.8		53-125			

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland  
Attn: Peter Langtry  
187 Filbert Street  
Oakland, Ca 94607  
Phone: (510) 257-1870 Fax: (510) 257-1872  
Project: 1731-2G  
Derby

Received: 09/04/2003 17:41

Batch QC Report

Prep(s): 6038 Test(s): 8015M  
Laboratory Control Spike Soil QC Batch # 20030903-01.04  
LCS 2003/09/03-01.04-008 Extracted: 09/06/2003 Analyzed: 09/06/2003 09:37  
LCSD 2003/09/03-01.04-007 Extracted: 09/06/2003 Analyzed: 09/06/2003 10:04

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ch. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Req.	RPD	LCS
Gasoline	0.439	0.444	0.600	87.5	88.8	1.1	75-126	35		
Surrogates(s) 4-Bromofluorobenzene-FID	486	544	600	99.0	108.8		58-124			

TEPH w/ Silica Gel Clean-up

Lowrey & Associates Oakland  
Attn: Peter Langhy  
187 Filbert Street  
Oakland, CA 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Dairy

Received: 09/04/2003 17:41

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
GSS-9	09/04/2003	Soil	1

TEPH w/ Silica Gel Clean-up

Lowrey & Associates Oakland  
Attn: Peter Langhy  
187 Filbert Street  
Oakland, CA 94607  
Phone: (510) 267-1970 Fax: (510) 267-1972  
Project: 1731-2G  
Dairy

Received: 09/04/2003 17:41

Project: 1731-2G  
Sample ID: GSS-9  
Sampled: 09/04/2003  
Matrix: Soil  
Test(s): 8015M  
Lab ID: 2003-09-0126 - 1  
Extracted: 09/06/2003 18:07  
QC Batch#: 20030904-0610

Compound	Cond.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/06/2003 18:13	
Motor Oil	ND	50	mg/Kg	1.00	09/06/2003 18:13	
Surrogate(s) o-Terphenyl	88.2	50-130	%	1.00	09/06/2003 18:13	

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
 Attn: Peter Langry  
 167 Filbert Street  
 Oakland, CA 94607  
 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Derby

Received: 09/04/2003 17:41

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
GSS-5	08/04/2003	Soil	1

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
 Attn: Peter Langry  
 167 Filbert Street  
 Oakland, CA 94607  
 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Derby

Received: 09/04/2003 17:41

Compound	Concn	RL	Unit	Dilution	Analyzed	Flag
Naphthalene	ND	18	ug/Kg	1.00	09/05/2003 16:06	
Acenaphthylene	ND	10	ug/Kg	1.00	09/05/2003 16:06	
Acenaphthene	ND	10	ug/Kg	1.00	09/05/2003 16:06	
Fluorene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Phenanthrene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Anthracene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Fluoranthene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Pyrene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Chrysene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Benzo(e)pyrene	ND	5.0	ug/Kg	1.00	09/05/2003 16:06	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	09/05/2003 16:06	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	09/05/2003 16:06	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	09/05/2003 16:06	
Surrogate(s)						
1-Methyl naphthalene	72.1	50-150	%	1.00	09/05/2003 16:06	

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
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 167 Filbert Street  
 Oakland, CA 94607  
 Phone: (510) 267-1970 Fax: (510) 267-1972  
 Project: 1731-2G  
 Derby

Received: 09/04/2003 17:41

Batch QC Report

Compound	Concn	RL	Unit	Analyzed	Flag
Naphthalene	ND	18.0	ug/Kg	09/05/2003 12:41	
Acenaphthylene	ND	10	ug/Kg	09/05/2003 12:41	
Acenaphthene	ND	10	ug/Kg	09/05/2003 12:41	
Fluorene	ND	5.0	ug/Kg	09/05/2003 12:41	
Phenanthrene	ND	5.0	ug/Kg	09/05/2003 12:41	
Anthracene	ND	5.0	ug/Kg	09/05/2003 12:41	
Fluoranthene	ND	5.0	ug/Kg	09/05/2003 12:41	
Pyrene	ND	5.0	ug/Kg	09/05/2003 12:41	
Benzo(a)anthracene	ND	5.0	ug/Kg	09/05/2003 12:41	
Chrysene	ND	5.0	ug/Kg	09/05/2003 12:41	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	09/05/2003 12:41	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	09/05/2003 12:41	
Benzo(e)pyrene	ND	5.0	ug/Kg	09/05/2003 12:41	
Dibenzo(a,h)anthracene	ND	10.0	ug/Kg	09/05/2003 12:41	
Benzo(g,h,i)perylene	ND	10.0	ug/Kg	09/05/2003 12:41	
Indeno(1,2,3-cd)pyrene	ND	10.0	ug/Kg	09/05/2003 12:41	
Surrogate(s)					
1-Methyl naphthalene	82.8	50-150	%	09/05/2003 12:41	

Polynuclear Aromatic Hydrocarbons (PNA)

Lowrey & Associates Oakland  
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 167 Filbert Street  
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 Project: 1731-2G  
 Derby

Received: 09/04/2003 17:41

Batch QC Report

Compound	Concn	ug/Kg	Exp. Concn	Recovery %	RPD	Chl Limits %	Flags
Naphthalene	168	148	200	73.7	74.0	1.4	50-150 35
Phenanthrene	200	182	200	100.0	98.0	4.1	50-150 35
Pyrene	200	197	200	100.0	98.6	1.5	50-150 35
Chrysene	214	212	200	107.0	106.0	0.9	50-150 35
Benzo(e)pyrene	189	197	200	94.5	93.5	1.1	50-150 35
Surrogate(s)							
1-Methyl naphthalene	11.8	11.4	15	78.4	74.1	5.0	50-150 0





Gas/BTEX Compounds by 8015M/8021

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Derby

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-8	11/03/2003	Soil	1
SS-9	11/03/2003	Soil	2
SS-11	11/03/2003	Soil	4
TP4-2	11/03/2003	Soil	6