

**RECEIVED**

By Alameda County Environmental Health at 2:17 pm, Jan 07, 2014

January 6, 2014

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

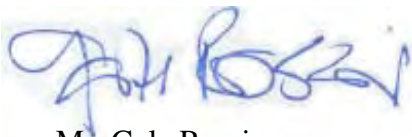
Attention: Mark Detterman

Subject: Report of Soil and Groundwater Investigation  
Albany Fire Station UST Site  
1001 Marin Avenue, Albany, California  
**ACEH RO#0000297; Geotracher Global ID T0600102152**

Ladies and Gentlemen:

Attached please find a copy of the *Report of Soil and Groundwater Investigation* prepared by Gribi Associates. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge.

Very truly yours,



Mr. Gale Rossi  
City of Albany  
1000 San Pablo Avenue  
Albany, CA 94706



January 6, 2014

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

Attention: Mark. Detterman

Subject: Report of Soil and Groundwater Investigation  
Albany Fire Station UST Site  
1001 Marin Avenue, Albany, California  
**ACEH RO#0000297; Geotracker Global ID No. T0600102152**

Ladies and Gentlemen:

Gribi Associates is pleased to submit this letter report on behalf of the City of Albany documenting a soil and groundwater investigation at the Albany Fire Station underground storage tank (UST) site located at 1001 Marin Avenue in Albany, California (Site) (see Figure 1 and Figure 2). This report describes and documents the drilling and sampling of two investigative soil borings at the Site. The goal of this investigation was to assess soil and groundwater quality downgradient from former Site gasoline UST in order to address regulatory site closure.

## **1.0 SITE BACKGROUND**

One 1,000-gallon diesel UST and one 10,000-gallon unleaded gasoline UST were removed from separate locations at the Site by HK2, Inc./Semco in April 1998. Two soil samples collected beneath the removed diesel UST at a depth of about nine feet below surface grade showed 4 milligrams per kilogram (mg/kg) and 110 mg/kg of Total Petroleum Hydrocarbons as Diesel (TPH-D), with no detectable concentrations of BTEX constituents. The four-point composite soil sample from the diesel UST removal soil stockpile showed 3 mg/kg of TPH-D, with no detectable concentrations of BTEX constituents.

Two soil samples collected beneath the removed unleaded gasoline UST at a depth of about 11 feet below surface grade showed no detectable levels of Total Petroleum Hydrocarbons as Gasoline (TPH-G), with low to nondetectable concentrations of BTEX constituents and Methyl-

t-butyl Ether (MTBE). One soil sample collected beneath the removed fuel dispenser at a depth of about two feet showed 3.0 mg/kg of TPH-G, with low to nondetectable levels of BTEX constituents and MTBE. One grab groundwater sample collected from the UST excavation cavity following tank removal showed 4,000 micrograms per liter (ug/l) of TPH-G, 70 ug/l of Benzene, 330 ug/l of Toluene, 90 ug/l of Ethylbenzene, 260 ug/l of Xylenes, and 380 ug/l of MTBE.

Gribi Associates drilled and sampled two soil borings, IB-1 and IB-2, on the site on January 22, 1999. Boring IB-1 was sited southwest and IB-2 was sited west from the former gasoline UST excavation cavity. Field screening and laboratory analytical results from the two soil borings indicated minimal hydrocarbon impacts in subsurface soils in both investigative borings. The groundwater sample from IB-2, located about ten feet west from the former gasoline UST excavation cavity, showed 320 ug/l of MTBE. In order to assess downgradient groundwater MTBE impacts, the investigation report, dated March 15, 1999, included a workplan to install and sample one additional soil boring approximately 20 to 30 feet west from previous boring IB-2. This workplan was approved by Alameda County Environmental Health (ACEH) on March 19, 1999.

On June 28, 2012, ACEH issued a letter requesting submittal of an updated and revised workplan for the Site. Based on our phone conversation with Mr. Mark Detterman of ACEH, we proposed the drilling and sampling of two soil borings, rather than only one as proposed in the March 1999 workplan.

## **2.0 LIMITATIONS**

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted environmental protocol. The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hydrogeologic data.

## **3.0 DESCRIPTION OF FIELD ACTIVITIES**

Soil boring activities were conducted by Gregg Drilling (C-57 License No. 485165) on October 24, 2013. All activities were conducted in accordance with the approved workplan and with applicable regulatory guidelines and statutes.

### **3.1 Pre-field Activities**

Prior to initiating the field work, Gribi Associates obtained a drilling permit and notified Alameda County Department of Public Works. A copy of this permit is included in Attachment A. In addition, Underground Services Alert (USA) was notified at least 72 hours beforehand, and a private underground utility locator (ForeSite) cleared proposed boring locations. Also, prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

### **3.2 Location of Soil Borings**

The locations of soil borings IB-3 and IB-4 are shown on Figure 2. Boring IB-3 was located approximately 60 feet northwest from the former gasoline UST in the Buchanan Street sidewalk, and IB-4 was located 35 feet southwest from former UST inside the fire station vehicle garage area.

### **3.3 Drilling and Sampling of Investigative Soil Borings**

Soil boring IB-3 and IB-4 were drilled to approximately 24 feet in depth using direct-push coring equipment. Four-foot continuous soil cores were collected from the boring in a clear plastic acetate tube, nested inside a stainless steel core barrel. After each four-foot core barrel was brought, a portion of the soil core contained in the acetate liner was removed for preservation and laboratory analysis. Teflon tape was placed over both ends of the sample core and sealed with plastic end-caps. The samples were then labeled and placed in cold storage pending transport to a laboratory. Following sample collection, the core was sliced lengthwise to expose the soil core, examined, logged, and field screened for hydrocarbons by a qualified geologist using sight, smell and PID. The soil boring logs for IB-3 and IB-4 are included in Attachment B. Soil cuttings from the boring were contained onsite in a sealed drum pending laboratory results.

One grab groundwater sample was collected from each of the borings. After reaching total boring depths, open hole grab groundwater samples were collected by placing 3/4-inch diameter PVC well casing in the boring and allowing groundwater to enter the casing. Groundwater was sampled in the borings using a clean small diameter bailer and poured directly into laboratory-supplied containers. Each sample container was then tightly sealed, labeled, and placed in cold storage for transport to the laboratory under formal chain-of-custody.

All coring and sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute liquinox solution, and finally with distilled water. Soil cuttings were contained onsite in sealed drums pending laboratory results. After completion, the two soil borings were grouted to match existing surface grade using a cement/sand slurry.

### **3.4 Laboratory Analysis of Soil and Water Samples**

Four soil samples (two per boring) and two groundwater samples (one per boring) were analyzed for the following parameters.

- USEPA 8015C Total Petroleum Hydrocarbons as Diesel/Motor Oil (TPH-D/MO)
- USEPA 8260B Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8260B Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
- USEPA 8260B Oxygenates (TBA, MTBE, DIPE, ETBE, and TAME)
- USEPA 8260B Lead Scavengers (EDB and EDC)

All analyses were conducted by Sunstar Laboratories, a State-certified laboratory, with standard turn around on laboratory results.

## **4.0 RESULTS OF INVESTIGATION**

### **4.1 General Subsurface Conditions**

The soils encountered in the well boring consisted primarily of fill material to five feet in depth, followed by sandy clays and clayey sands to 24 feet, the total boring depth. Groundwater did not enter the borings during coring, but stabilized at respective depths of approximately ten feet and 14 feet in borings IB-3 and IB-4 after approximately one-half hour. No hydrocarbon odors or sheens were noted in soil or groundwater from the two soil borings.

### **4.2 Results of Laboratory Analyses**

Soil laboratory analytical results are summarized in Table 1 and on Figure 2. The laboratory data report is provided as Attachment C. Soil and groundwater samples from the two borings showed no significant detections of hydrocarbon constituents.

## **5.0 CONCLUSIONS**

Results of this investigation clearly indicate no significant environmental impacts from the former Site gasoline UST. Soil and groundwater from the two borings exhibited no field evidence of environmental impacts, and laboratory analytical results from the two borings showed no significant detections of hydrocarbon constituents.

## **6.0 RECOMMENDATIONS**

Based on the results of this investigation, which indicate no significant environmental impacts relative to the former Site gasoline UST, we recommend that regulatory closure be granted for this Site.

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

Very truly yours,



James E. Gribi  
Registered Geologist  
California No. 5843



c Mr. Gale Rossi, City of Albany

Enclosures: Figure 1: Site Vicinity Map  
Figure 2: Site Plan  
Attachment A: Regulatory Permits  
Attachment B: Soil Boring Logs  
Attachment C: Laboratory Data Report and Chain-of-Custody Records

## TABLES

**Table 1**  
**SUMMARY OF SOIL AND GRAB GROUNDWATER ANALYTICAL RESULTS**  
 City of Albany Fire Department UST Site

Sample ID	Sample Matrix	Sample Depth	Soil concentrations in milligrams per kilogram (mg/kg) Groundwater concentrations in micrograms per liter (ug/l)								
			TPH-D	TPH-M	TPH-G	B	T	E	X	MTBE	Other OXY
IB-3-7.5	Soil	7.5 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
IB-3-11.5	Soil	14.5 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
<i>IB-3-GW</i>	<i>Water</i>	<i>(9.9 ft)</i>	<i>&lt;50</i>	<i>300</i>	<i>&lt;050</i>	<i>&lt;0.50</i>	<i>&lt;0.50</i>	<i>&lt;0.50</i>	<i>&lt;1.0</i>	<i>&lt;1.0</i>	<i>ALL ND</i>
IB-4-7.5	Soil	7.5 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
IB-4-11.5	Soil	14.0 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
<i>IB-4-GW</i>	<i>Water</i>	<i>(14.0 ft)</i>	<i>&lt;50</i>	<i>&lt;100</i>	<i>&lt;050</i>	<i>&lt;0.50</i>	<i>&lt;0.50</i>	<i>&lt;0.50</i>	<i>&lt;1.0</i>	<i>&lt;1.0</i>	<i>ALL ND</i>
<b>Shallow Soil ESL</b>			<b>100</b>	<b>500</b>	<b>100</b>	<b>0.74</b>	<b>9.3</b>	<b>4.7</b>	<b>11</b>	<b>8.4</b>	<b>Various</b>
<b>Groundwater ESL</b>			<b>640</b>	<b>640</b>	<b>500</b>	<b>46</b>	<b>130</b>	<b>43</b>	<b>100</b>	<b>1,800</b>	<b>Various</b>

**Table Notes:**

TPH-D = Total petroleum hydrocarbons as diesel  
 TPH-M = Total petroleum hydrocarbons as motor oil  
 TPH-G = Total petroleum hydrocarbons as gasoline  
 MTBE = Methyl Tertiary Butyl Ether  
 Other OXY = Other oxygenates, including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME), and Lead Scavengers, including 1,2-Dibromoethane and 1,1-Dichloroethane

<10 = Not detected above the expressed detection level.  
 ND = Not detected above laboratory detection limits  
 All ND = No detectable concentrations of full list of constituents ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2013; Table B (nondrinking water, residential land use).



## FIGURES



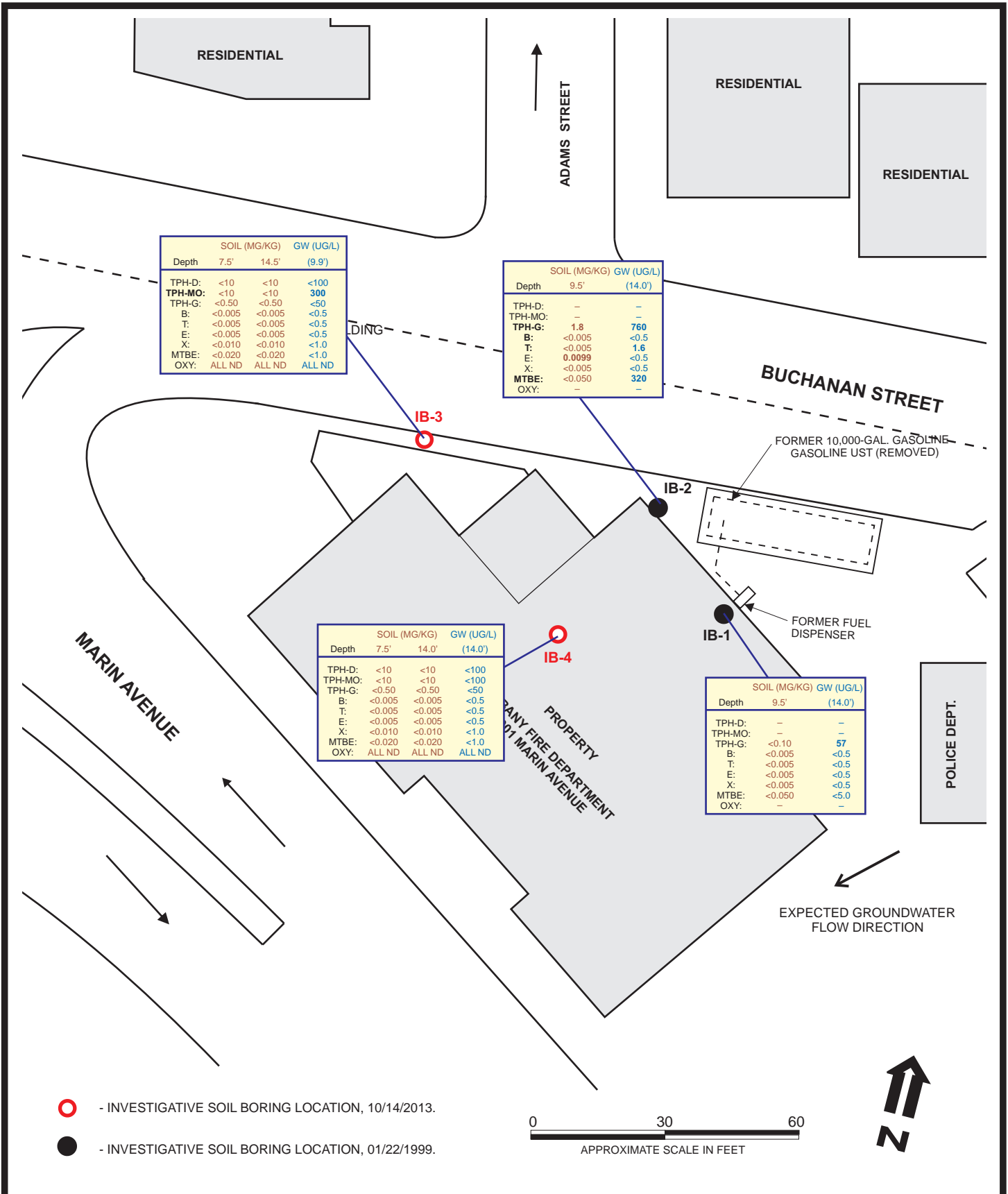
DESIGNED BY:	CHECKED BY: JG
DRAWN BY: RB	SCALE:
PROJECT NO:	

**SITE VICINITY MAP**

1001 MARIN AVENUE  
ALBANY, CALIFORNIA

DATE: 01/06/2014	FIGURE: 1
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- - INVESTIGATIVE SOIL BORING LOCATION, 10/14/2013.
- - INVESTIGATIVE SOIL BORING LOCATION, 01/22/1999.

DESIGNED BY:	CHECKED BY: JG	<b>SITE PLAN</b>	DATE: 01/06/2014	FIGURE: 2
DRAWN BY: RB	SCALE:			
PROJECT NO:		1001 MARIN AVENUE ALBANY, CALIFORNIA		

**ATTACHMENT A**  
**REGULATORY PERMITS**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 08/12/2013 By jamesy

Permit Numbers: W2013-0584  
Permits Valid from 08/26/2013 to 08/26/2013

Application Id: 1376326708517  
Site Location: 1001 Marin Avenue, Albany  
Project Start Date: 08/26/2013  
Assigned Inspector: Contact Gilberto Ambriz at (510) 362-9040 or gil\_510@yahoo.com

City of Project Site: Albany

Completion Date: 08/26/2013

Applicant: Gribi - James E Gribi  
1090 Adams St Ste K, Benicia, CA 94510

Phone: 707-748-7743

Property Owner: City of Albany  
1000 San Pablo Ave, albany, CA 94706

Phone: 510-528-5710

Client: \*\* same as Property Owner \*\*

Receipt Number: WR2013-0291 Total Due: \$265.00  
Payer Name : Gribi Total Amount Paid: \$265.00  
Paid By: CHECK PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitoring Study - 2 Boreholes  
Driller: Gregg - Lic #: 485165 - Method: other

Work Total: \$265.00

## Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-0584	08/12/2013	11/24/2013	2	2.00 in.	12.00 ft

## Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
3. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
4. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
5. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this

**Alameda County Public Works Agency - Water Resources Well Permit**

permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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**ATTACHMENT B**  
**SOIL BORING LOGS**



# LOG OF BORING

SHEET 1 OF 1

BORING NUMBER : **IB-3**  
 BORING LOCATION: NW FROM FORMER UST  
 PROJECT NAME: CITY OF ALBANY FIRE DEPARTMENT  
 BORING TYPE: SOIL BORING  
 LOGGED BY: MATTHEW ROSMAN  
 START DATE: 10/24/2013 COMPLETION DATE: 10/24/2013



DRILLING CONTRACTOR: GREGG DRILLING  
 DRILLING METHOD: DIRECT PUSH  
 BOREHOLE DIAMETER: 2.5 INCHES  
 COMPLETION METHOD: NA  
 BORING TOTAL DEPTH: 24.0 FEET  
 GROUNDWATER DEPTH: INITIAL: NONE  
 FINAL: 9.9 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL  - INITIAL  - FINAL	USCS	LOG OF MATERIAL		WELL INSTALLATION & CONSTRUCTION
0 - 5						0.0 - 5.0 ft. Fill (Hand Augered)		
5 - 10	IB-3-7.5 11:30	7.5 FT.		0	CL	5.0 - 12.0 ft. <b>Sandy Clay (CL)</b> Brown, moist, occasional fine to coarse grain sand, stiff, no hydrocarbon odors or staining.		
10 - 15	IB-3-11.5 11:40	11.5 FT.		0	CL	12.0 - 18.0 ft. <b>Sandy Clay (CL)</b> Red-brown, occasional fine to coarse grain sand, silt/clay, moist, no hydrocarbon odors or staining.		
15 - 20	IB-3-15.5 11:50	15.5 FT.		0	CL	18.0 - 24.0 ft. <b>Silty Clay (CL)</b> Mottled grey-brown, moist, slightly sandy, very fine grained thin sandy zone, no hydrocarbon odors or staining.		
20 - 25						TOTAL DEPTH: 24 FEET BGS. GROUNDWATER SAMPLE IB-3-GW WAS COLLECTED AT 12:15		



# LOG OF BORING

BORING NUMBER : **IB-4**  
 BORING LOCATION: SW FROM FORMER UST  
 PROJECT NAME: CITY OF ALBANY FIRE DEPARTMENT  
 BORING TYPE: SOIL BORING  
 LOGGED BY: MATTHEW ROSMAN  
 START DATE: 10/24/2013 COMPLETION DATE: 10/24/2013



DRILLING CONTRACTOR: GREGG DRILLING  
 DRILLING METHOD: DIRECT PUSH  
 BOREHOLE DIAMETER: 2.5 INCHES  
 COMPLETION METHOD: NA  
 BORING TOTAL DEPTH: 24.0 FEET  
 GROUNDWATER DEPTH: INITIAL: NONE  
 FINAL: 14.0 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL - INITIAL - FINAL	USCS	LOG OF MATERIAL		WELL INSTALLATION & CONSTRUCTION
						Interval	Description	
0 - 5						0.0 - 5.0 ft. FILL (Hand Augered)		
5 - 8	IB-4-8.0 9:20	8.0 FT.		0	SC	5.0 - 8.0 ft. <b>Clayey Sand (SC)</b> Orange-brown, moist, fine to coarse, slight to moderate clayey (increasing w/depth), no odor or staining.		
8 - 11.5	IB-4-11.5 9:30	11.5 FT.		0	SC	8.0 - 14.5 ft. <b>Clayey Sand (SC)</b> Orange-brown, moist, stiff, fine to coarse grain, no odors or staining.		
11.5 - 14.5								
14.5 - 16	IB-4-15.5 9:40	15.5 FT.		0	CL	14.5 - 16.0 ft. <b>Silty Clay (CL)</b> Mottled orange-brown grey, moist, stiff, slightly sandy, very fine grain, no odors or staining.		
16 - 24					CL	16.0 - 24.0 ft. <b>Sandy Clay (CL)</b> Orange-brown, moist, fine to coarse grain, no odors or staining.		
24 - 25	TOTAL DEPTH: 24 FEET BGS. GROUNDWATER SAMPLE IB-4-GW WAS COLLECTED AT 10:45							

**ATTACHMENT C**  
**LABORATORY DATA REPORT AND**  
**CHAIN-OF-CUSTODY RECORDS**



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

11 November 2013

Jim Gribi  
Gribi Associates  
1090 Adam Street, Suite K  
Benicia, CA 94510  
RE: City of Albany Fire Department

Enclosed are the results of analyses for samples received by the laboratory on 10/26/13 08:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane  
Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Gribi Associates 1090 Adam Street, Suite K Benicia CA, 94510	Project: City of Albany Fire Department Project Number: [none] Project Manager: Jim Gribi	Reported: 11/11/13 10:36
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IB-4-7.5	T132312-01	Soil	10/23/13 09:20	10/26/13 08:46
IB-4-11.5	T132312-02	Soil	10/23/13 09:30	10/26/13 08:46
IB-3-7.5	T132312-04	Soil	10/23/13 11:30	10/26/13 08:46
IB-3-11.5	T132312-05	Soil	10/23/13 11:40	10/26/13 08:46
IB-4-GW	T132312-07	Water	10/24/13 10:45	10/26/13 08:46
IB-3-GW	T132312-08	Water	10/24/13 10:15	10/26/13 08:46

SunStar Laboratories, Inc.

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

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Gribi Associates Project: City of Albany Fire Department  
1090 Adam Street, Suite K Project Number: [none] Reported:  
Benicia CA, 94510 Project Manager: Jim Gribi 11/11/13 10:36

**IB-4-7.5**  
**T132312-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	ND	10	mg/kg	1	3102808	10/28/13	11/05/13	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	"
Surrogate: p-Terphenyl	112 %	65-135	"	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg	1	3103110	10/31/13	11/01/13	EPA 8260B	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
Benzene	ND	5.0	"	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	20	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	85.5-116	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	81.2-123	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	122 %	95.7-135	"	"	"	"	"	"	"

SunStar Laboratories, Inc.

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

*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Gribi Associates Project: City of Albany Fire Department  
1090 Adam Street, Suite K Project Number: [none] Reported:  
Benicia CA, 94510 Project Manager: Jim Gribi 11/11/13 10:36

**IB-4-11.5**  
**T132312-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	ND	10	mg/kg	1	3102808	10/28/13	11/05/13	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	"
Surrogate: p-Terphenyl	105 %	65-135	"	"	"	"	"	"	"

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg	1	3103110	10/31/13	11/01/13	EPA 8260B	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
Benzene	ND	5.0	"	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	"
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	20	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	"
Surrogate: Toluene-d8	102 %	85.5-116	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	81.2-123	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	133 %	95.7-135	"	"	"	"	"	"	"

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**IB-3-7.5**  
**T132312-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	ND	10	mg/kg	1	3102808	10/28/13	11/05/13	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl	110 %	65-135	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg	1	3103110	10/31/13	11/01/13	EPA 8260B	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8	107 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	81.2-123	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	149 %	95.7-135	"	"	"	"	"	"	S-GC

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**IB-3-11.5**  
**T132312-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	ND	10	mg/kg	1	3102808	10/28/13	11/05/13	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl	104 %	65-135	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg	1	3103110	10/31/13	11/01/13	EPA 8260B	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	85.5-116	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	81.2-123	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	122 %	95.7-135	"	"	"	"	"	"	

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**IB-4-GW**  
**T132312-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	ND	0.050	mg/l	1	3102809	10/28/13	11/05/13	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl	123 %	65-135	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	3103031	10/30/13	11/02/13	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8	101 %	88.8-117	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	121 %	81.1-136	"	"	"	"	"	"	

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**IB-3-GW**  
**T132312-08 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C13-C28 (DRO)	ND	0.050	mg/l	1	3102809	10/28/13	11/05/13	EPA 8015C	
C29-C40 (MORO)	0.30	0.10	"	"	"	"	"	"	D-02
Surrogate: p-Terphenyl	134 %	65-135	"	"	"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	3103031	10/30/13	11/02/13	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8	101 %	88.8-117	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	121 %	81.1-136	"	"	"	"	"	"	

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
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**Batch 3102808 - EPA 3550B GC**

**Blank (3102808-BLK1)** Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	ND	10	mg/kg						
C29-C40 (MORO)	ND	10	"						
Surrogate: <i>p-Terphenyl</i>	133		"	100	133	65-135			

**LCS (3102808-BS1)** Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	460	10	mg/kg	500	93.0	75-125			
Surrogate: <i>p-Terphenyl</i>	118		"	100	118	65-135			

**Matrix Spike (3102808-MS1)** Source: T132307-03 Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	450	10	mg/kg	500	ND	91.0	75-125		
Surrogate: <i>p-Terphenyl</i>	126		"	100	126	65-135			

**Matrix Spike Dup (3102808-MSD1)** Source: T132307-03 Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	480	10	mg/kg	500	ND	95.6	75-125	5.00	20
Surrogate: <i>p-Terphenyl</i>	119		"	100	119	65-135			

**Batch 3102809 - EPA 3510C GC**

**Blank (3102809-BLK1)** Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	ND	0.050	mg/l						
C29-C40 (MORO)	ND	0.10	"						
Surrogate: <i>p-Terphenyl</i>	5.07		"	4.00	127	65-135			

**LCS (3102809-BS1)** Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	18.8	0.050	mg/l	20.0	93.8	75-125			
Surrogate: <i>p-Terphenyl</i>	5.06		"	4.00	127	65-135			

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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Notes
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**Batch 3102809 - EPA 3510C GC**

**Matrix Spike (3102809-MS1)** Source: T132307-01 Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	18.5	0.050	mg/l	20.0	ND	92.6	75-125		
Surrogate: <i>p-Terphenyl</i>	5.37		"	4.00	134	65-135			

**Matrix Spike Dup (3102809-MSD1)** Source: T132307-01 Prepared: 10/28/13 Analyzed: 11/05/13

C13-C28 (DRO)	18.7	0.050	mg/l	20.0	ND	93.3	75-125	0.795	20
Surrogate: <i>p-Terphenyl</i>	5.31		"	4.00	133	65-135			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 3103031 - EPA 5030 GCMS**

Blank (3103031-BLK1)		Prepared: 10/30/13 Analyzed: 11/02/13	
Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 3103031 - EPA 5030 GCMS**

Blank (3103031-BLK1)		Prepared: 10/30/13 Analyzed: 11/02/13	
p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
C6-C12 (GRO)	ND	50	"
Surrogate: Toluene-d8	8.07	"	8.00 101 88.8-117
Surrogate: 4-Bromofluorobenzene	7.87	"	8.00 98.4 83.5-119
Surrogate: Dibromofluoromethane	9.88	"	8.00 124 81.1-136

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 3103031 - EPA 5030 GCMS**

LCS (3103031-BS1)		Prepared: 10/30/13 Analyzed: 11/02/13								
Chlorobenzene	20.5	1.0	ug/l	20.0	102	75-125				
1,1-Dichloroethene	22.9	1.0	"	20.0	114	75-125				
Trichloroethene	24.8	1.0	"	20.0	124	75-125				
Benzene	22.8	0.50	"	20.0	114	75-125				
Toluene	22.9	0.50	"	20.0	115	75-125				
<i>Surrogate: Toluene-d8</i>	8.13		"	8.00	102	88.8-117				
<i>Surrogate: 4-Bromofluorobenzene</i>	7.72		"	8.00	96.5	83.5-119				
<i>Surrogate: Dibromofluoromethane</i>	9.72		"	8.00	122	81.1-136				

LCS Dup (3103031-BS1)		Prepared: 10/30/13 Analyzed: 11/02/13								
Chlorobenzene	20.8	1.0	ug/l	20.0	104	75-125	1.50	20		
1,1-Dichloroethene	23.6	1.0	"	20.0	118	75-125	2.97	20		
Trichloroethene	24.7	1.0	"	20.0	124	75-125	0.484	20		
Benzene	22.7	0.50	"	20.0	113	75-125	0.571	20		
Toluene	22.5	0.50	"	20.0	112	75-125	1.89	20		
<i>Surrogate: Toluene-d8</i>	7.98		"	8.00	99.8	88.8-117				
<i>Surrogate: 4-Bromofluorobenzene</i>	7.88		"	8.00	98.5	83.5-119				
<i>Surrogate: Dibromofluoromethane</i>	9.92		"	8.00	124	81.1-136				

**Batch 3103110 - EPA 5030 GCMS**

Blank (3103110-BLK1)		Prepared: 10/31/13 Analyzed: 11/01/13								
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 3103110 - EPA 5030 GCMS**

Blank (3103110-BLK1)		Prepared: 10/31/13 Analyzed: 11/01/13								
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
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949.297.5027 Fax

Gribi Associates Project: City of Albany Fire Department  
1090 Adam Street, Suite K Project Number: [none] Reported:  
Benicia CA, 94510 Project Manager: Jim Gribi 11/11/13 10:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 3103110 - EPA 5030 GCMS**

Blank (3103110-BLK1)		Prepared: 10/31/13 Analyzed: 11/01/13	
1,2,3-Trichloropropane	ND	5.0	ug/kg
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
Vinyl chloride	ND	5.0	"
Benzene	ND	5.0	"
Toluene	ND	5.0	"
Ethylbenzene	ND	5.0	"
m,p-Xylene	ND	10	"
o-Xylene	ND	5.0	"
Tert-amyl methyl ether	ND	20	"
Tert-butyl alcohol	ND	50	"
Di-isopropyl ether	ND	20	"
Ethyl tert-butyl ether	ND	20	"
Methyl tert-butyl ether	ND	20	"
Ethanol	ND	500	"
Surrogate: Toluene-d8	42.0	"	40.0 105 85.5-116
Surrogate: 4-Bromofluorobenzene	39.1	"	40.0 97.8 81.2-123
Surrogate: Dibromofluoromethane	46.2	"	40.0 115 95.7-135

LCS (3103110-BS1)		Prepared: 10/31/13 Analyzed: 11/01/13	
Chlorobenzene	98.7	5.0	ug/kg 100 98.7 75-125
1,1-Dichloroethene	108	5.0	" 100 108 75-125
Trichloroethene	116	5.0	" 100 116 75-125
Benzene	113	5.0	" 100 113 75-125
Toluene	109	5.0	" 100 109 75-125
Surrogate: Toluene-d8	41.2	"	40.0 103 85.5-116
Surrogate: 4-Bromofluorobenzene	38.2	"	40.0 95.5 81.2-123
Surrogate: Dibromofluoromethane	46.2	"	40.0 116 95.7-135

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager



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Gribi Associates Project: City of Albany Fire Department  
1090 Adam Street, Suite K Project Number: [none] Reported:  
Benicia CA, 94510 Project Manager: Jim Gribi 11/11/13 10:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch 3103110 - EPA 5030 GCMS**

LCS Dup (3103110-BSD1)		Prepared: 10/31/13 Analyzed: 11/01/13	
Chlorobenzene	102	5.0	ug/kg 100 102 75-125 3.73 20
1,1-Dichloroethene	119	5.0	" 100 119 75-125 9.67 20
Trichloroethene	113	5.0	" 100 113 75-125 2.62 20
Benzene	114	5.0	" 100 114 75-125 0.617 20
Toluene	115	5.0	" 100 115 75-125 5.36 20
Surrogate: Toluene-d8	40.8	"	40.0 102 85.5-116
Surrogate: 4-Bromofluorobenzene	38.6	"	40.0 96.4 81.2-123
Surrogate: Dibromofluoromethane	48.2	"	40.0 120 95.7-135

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.  
25712 Commercentre Dr  
Lake Forest, CA 92630  
949-297-5020

Chain of Custody Record

Client: Gribi Associates  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Project Manager: Jim Gribi Fax: \_\_\_\_\_

Date: 10/25/2013 Page: \_\_\_\_\_  
Project Name: City of Albany Fire Department  
Collector: M. Russon Client Project #: \_\_\_\_\_  
Batch #: T132312 EDP #: 70600102452

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only, headspace	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
<u>TB-4-7.5</u>	<u>10/23</u>	<u>0820</u>	<u>SOI</u>						X	X	X	X		<u>01</u>		
<u>TB-4-11.5</u>	<u>10/23</u>	<u>0930</u>	<u>SOI</u>						X	X	X	X		<u>02</u>		
<u>TB-4-15.5</u>	<u>10/23</u>	<u>0940</u>	<u>SOI</u>						X	X	X	X		<u>03</u>	<u>HOLD</u>	
<u>TB-3-7.5</u>	<u>10/23</u>	<u>1130</u>	<u>SOI</u>						X	X	X	X		<u>04</u>		
<u>TB-3-11.5</u>	<u>10/23</u>	<u>1140</u>	<u>SOI</u>						X	X	X	X		<u>05</u>		
<u>TB-3-15.5</u>	<u>10/23</u>	<u>1150</u>	<u>SOI</u>						X	X	X	X		<u>06</u>	<u>HOLD</u>	
<u>TB-4-GW</u>	<u>10/24</u>	<u>1045</u>	<u>water</u>						X	X	X	X		<u>07</u>		
<u>TB-3-GW</u>	<u>10/24</u>	<u>1015</u>	<u>water</u>						X	X	X	X		<u>08</u>		
Relinquished by: (signature) _____	Date / Time _____	Received by: (signature) _____	Date / Time _____	Turn around time: _____												
Relinquished by: (signature) _____	Date / Time _____	Received by: (signature) _____	Date / Time _____	Turn around time: _____												
Relinquished by: (signature) _____	Date / Time _____	Received by: (signature) _____	Date / Time _____	Turn around time: _____												
Sample disposal instructions: _____	Disposal @ \$2.00 each _____	Return to client _____	Pickup _____	Turn around time: _____												

COC 130736



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Gribi Associates Project: City of Albany Fire Department  
1090 Adam Street, Suite K Project Number: [none]  
Benicia CA, 94510 Project Manager: Jim Gribi  
Reported: 11/11/13 10:36

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- D-02 Hydrocarbon pattern present in the requested fuel quantitation range, but does not resemble the pattern of the requested fuel.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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*Katherine RunningCrane*

Katherine RunningCrane, Project Manager

### SAMPLE RECEIVING REVIEW SHEET

BATCH # T132312

Client Name: G.S.

Project: City of Albany Fire Department

Received by: DM

Date/Time Received: 10/26/13 846

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other \_\_\_\_\_

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.4 °C +/- the CF (-0.2°C) = 4.2 °C corrected temperature

cooler #2 \_\_\_\_\_ °C +/- the CF (-0.2°C) = \_\_\_\_\_ °C corrected temperature

cooler #3 \_\_\_\_\_ °C +/- the CF (-0.2°C) = \_\_\_\_\_ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.  Yes  No\*  N/A

Custody Seals Intact on Cooler/Sample  Yes  No\*  N/A

Sample Containers Intact  Yes  No\*

Sample labels match COC ID's  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times.  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date DM 10/26/13

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_